

JAERI-M.

6857

BIBLIOGRAPHY FOR THERMAL NEUTRON SCATTERING
(FIFTH EDITION, 1976)

December 1976

M. Sakamoto, J. Chihara, Y. Nakahara
H. Kadotani, T. Sekiya and Y. Gotoh

日本原子力研究所
Japan Atomic Energy Research Institute

この報告書は、日本原子力研究所が JAERI-M レポートとして、不定期に発行している
研究報告書です。入手、複製などのお問い合わせは、日本原子力研究所技術情報部（茨城県
那珂郡東海村）まで、お申しこください。

JAERI-M reports, issued irregularly, describe the results of research works carried out
in JAERI. Inquiries about the availability of reports and their reproduction should be
addressed to Division of Technical Information, Japan Atomic Energy Research Institute,
Tokai-mura, Naka-gun, Ibaraki-ken, Japan.

JAERI-M 6857

BIBLIOGRAPHY FOR THERMAL NEUTRON SCATTERING (FIFTH EDITION, 1976)

Masanobu SAKAMOTO, Junzo CHIHARA, Yasuaki NAKAHARA, Hiroyuki KADOTANI*, Tamotsu SEKIYA**
and Yorio GOTOH.
Japanese Nuclear Data Committee,
Japan Atomic Energy Research Institute.

(Received December 7, 1976)

Summary

It contains bibliographical references to measurements, calculations, reviews and basic studies on thermal neutron scatterings and dynamical properties of condensed matter. About 2,700 documents up to the end of 1975 are covered.

* Century Research Center Co., Ltd, ** Osaka University

JAERI -M 6857

熱中性子散乱文献集 (第5版, 1976)

日本原子力研究所 シグマ研究委員会

坂本正誠・千原順三・中原康明・角谷浩亨*

関谷全**後藤頼男

(1976年12月7日受理)

この文献集は熱中性子散乱と、それに関連する凝縮系の動力学的性質についての測定、計算、論評や基礎的研究についての文献を集めたものである。今回は第5版で1975年末までに収集した約2千7百件の文献を含んでいる。収集文献は計算機により物質別に分類されており、熱中性子散乱断面積の評価と、物性の研究に広く役立っている。

* センチュリー・リサーチ・センター, ** 大阪大学

BIBLIOGRAPHY FOR THERMAL NEUTRON SCATTERING (FIFTH EDITION, 1976)

M. Sakamoto, J. Chihara, Y. Nakahara, H. Kadotani, T. Sekiya and Y. Gotoh.
Japanese Nuclear Data Committee,
Japan Atomic Energy Research Institute.

INTRODUCTION

In the last two decades there has been a rapid expansion in the use of thermal neutron scattering techniques to investigate the properties of solids, liquids and gases. Since about ten years before, we have continued the compilation and publication of the bibliography for thermal neutron scattering, as one of the activities of Japanese Nuclear Data Committee, and published the first edition in 1968. They have provided useful materials for an up-to-date survey of the literatures on the investigations of condensed matters in the use of thermal neutron spectroscopy.

It contains bibliographical references to the literatures not only on the measurements and calculations of thermal neutron scattering cross sections, but also on the basic studies of lattice, fluid and molecular dynamics in so far as they are concerned with thermal neutron

scattering. It covers literatures published on journals, conference proceedings, report series and books. However, as concerns the literatures on the magnetic scattering of thermal neutrons and the structure analysis by the neutron diffraction, the collections are only subsidiary in this bibliography.

This is the fifth edition of the bibliography which contains about twenty seven hundreds literatures, including the literatures in the earlier editions and all additions collected up to the end of 1975. They are ordered and classified by the computer system.

The earlier editions of the bibliography are as follows.

- (1) Bibliography for Thermal Neutron Scattering, JAERI-4043 (1968).
- (2) *ibid.* (Second Edition), JAERI-4043 (1969).
- (3) *ibid.* (Third Edition, 1971), JAERI-4043 (Third Edition) (1971).
- (4) *ibid.* (Fourth Edition, 1973), JAERI-M-5395 (1973).

ARRANGEMENT

The overall arrangement of the bibliography is divided into two parts indicated by the table of contents.

Part 1. List of Reference Numbers and Key Words:

In This part, every literature is listed under each kind of materials and special items

for which it contains relevant informations. Thus, when any one article reports on a number of materials and items, it is listed for each material and item respectively. The material names are ordered alphabetically in each of five groups which are MONATOMIC ELEMENTS, ALLOYS, INORGANIC COMPOUNDS, ORGANIC COMPOUNDS and ADSORPTIONS AND SOLUTIONS, and the special items are listed in GENERAL ARTICLES. Each entry contains a reference number (70BR15 for example) which identifies the literature in the List of References of Part 2, the names of the first two authors and the key words.

Part 2. List of References:

This is a bibliography of all literatures, ordered by the year of publication and the last name of the first author (the reference number). Each entry contains names of authors, title, reference and key words.

ACKNOWLEDGMRNT

The compilers would like to express their thanks to Dr. K. Asai who has revised all of the computer programmes for new FACOM 230-75 system. The compilation was carried out on the FACOM computer at JAERI, we would like to thank the staff for their cooperation.

CONTENTS

PART 1. LIST OF REFERENCE NUMBERS AND KEY WORDS, CLASSIFIED BY MATERIAL NAMMS

1.	GENERAL ARTICLES		
1.	1.	REVIEW-ARTICLES	1
1.	2.	NEUTRON-SCATTERING-IN-SOLIDS	2
1.	3.	NEUTRON-SCATTERING-IN-FLUIDS	4
1.	4.	THEORY-OF-SOLIDS	7
1.	5.	THEORY-OF-FLUIDS	10
1.	6.	SCATTERING-THEORIES	12
1.	7.	MAGNETIC-SCATTERING	14
1.	8.	PHASE-TRANSITION	14
1.	9.	SCATTERING-BY-DEFECTS	15
1.	10.	SUPERCONDUCTOR	15
1.	11.	LIQUID-CRYSTAL	15
1.	12.	COMPILATIONS	15
1.	13.	COMPUTER-CODES	15
1.	14.	MISCELLANEOUS	16
2.	MONATOMIC ELEMENTS		
2.	1.	ALUMINIUM	17
2.	2.	ANTIMONY	18
2.	3.	ARGON	18
2.	4.	ARSENIC	20
2.	5.	BARIUM	20
2.	6.	BERYLLIUM	20
2.	7.	BISMUTH	21

2.	8.	BORON	.....	22
2.	9.	BROMINE	.....	22
2.	10.	BROMINE	.....	22
2.	11.	CADMIUM	.....	22
2.	12.	CALCIUM	.....	22
2.	13.	CARBON	.....	22
2.	14.	CERIUM	.....	23
2.	15.	CESIUM	.....	23
2.	16.	CHLORINE	.....	23
2.	17.	CHROMIUM	.....	23
2.	18.	COBALT	.....	23
2.	19.	COPPER	.....	23
2.	20.	DEUTERIUM	.....	24
2.	21.	DEUTERIUM	.....	24
2.	22.	DIAMOND	.....	25
2.	23.	ERBIUM	.....	25
2.	24.	GADOLINIUM	.....	25
2.	25.	GALLIUM	.....	25
2.	26.	GERMANIUM	.....	25
2.	27.	GOLD	.....	26
2.	28.	GRAPHITE	.....	26
2.	29.	HAFNIUM	.....	28
2.	30.	HELIUM	.....	28
2.	31.	HOLMIUM	.....	30
2.	32.	HYDROGEN	.....	30
2.	33.	HYDROGEN	.....	30
2.	34.	INDIUM	.....	31
2.	35.	IODINE	.....	31
2.	36.	IRON	.....	31
2.	37.	KRYPTON	.....	32
2.	38.	LEAD	.....	32
2.	39.	LITHIUM	.....	33
2.	40.	MAGNESIUM	.....	34
2.	41.	MERCURY	.....	35
2.	42.	MOLYBDENUM	.....	35

2.	43.	NEON	.....	NE	.....	35
2.	44.	NICKEL	.....	NI	.....	36
2.	45.	NIObIUM	.....	NB	.....	36
2.	46.	NITROGEN	.....	N	.....	36
2.	47.	NITROGEN	.....	N2	.....	37
2.	48.	OXYGEN	.....	O	.....	37
2.	49.	OXYGEN	.....	O2	.....	37
2.	50.	PALLADIUM	.....	PD	.....	37
2.	51.	PLATINUM	.....	PT	.....	37
2.	52.	POTASSIUM	.....	K	.....	38
2.	53.	RUBIDIUM	.....	RB	.....	38
2.	54.	SCANDIUM	.....	SC	.....	39
2.	55.	SELENIUM	.....	SE	.....	39
2.	56.	SILICON	.....	SI	.....	39
2.	57.	SILVER	.....	AG	.....	40
2.	58.	SODIUM	.....	NA	.....	40
2.	59.	STRONTIUM	.....	SR	.....	42
2.	60.	SULPHUR	.....	S	.....	42
2.	61.	TANTALUM	.....	TA	.....	42
2.	62.	TECHNETIUM	.....	TC	.....	42
2.	63.	TELLURIUM	.....	TE	.....	42
2.	64.	TERBIUM	.....	TB	.....	43
2.	65.	THALLIUM	.....	TL	.....	43
2.	66.	THORIUM	.....	TH	.....	43
2.	67.	TIN	.....	SN	.....	43
2.	68.	TITANIUM	.....	TI	.....	44
2.	69.	TUNGSTEN	.....	W	.....	44
2.	70.	URANIUM	.....	U	.....	44
2.	71.	VANADIUM	.....	V	.....	44
2.	72.	XENON	.....	XE	.....	45
2.	73.	YTRIUM	.....	Y	.....	45
2.	74.	ZINC	.....	ZN	.....	46
2.	75.	ZIRCONIUM	.....	ZR	.....	46

3. ALLOYS

3.	1.	ALUMINIUM-THORIUM HYDRIDE	47
3.	2.	BARIUM HYORIDE	47
3.	3.	BARIUM-LITHIUM HYDRIDE	47
3.	4.	BISMUTH-GALLIUM	47
3.	5.	BISMUTH-LEAD	47
3.	6.	BISMUTH-LEAD-THALLIUM	47
3.	7.	BISMUTH-THALLIUM	47
3.	8.	BISMUTH-ZINC	47
3.	9.	CALCIUM HYDRIDE	47
3.	10.	CERIUM HYDRIDE	48
3.	11.	CESIUM HYDRIDE	48
3.	12.	CHROMIUM-IRON	48
3.	13.	CHROMIUM-TUNGSTEN	48
3.	14.	COBALT-NICKEL	48
3.	15.	COPPER-ALUMINIUM	48
3.	16.	COPPER-ANTIMONY	48
3.	17.	COPPER-BERYLLIUM	49
3.	18.	COPPER-COBALT	49
3.	19.	COPPER-GOLD	49
3.	20.	COPPER-MAGNESIUM	49
3.	21.	COPPER-NICKEL	49
3.	22.	COPPER-ZINC	49
3.	23.	ERBIUM-YTTRIUM-ALUMINIUM	49
3.	24.	GERMANIUM-SILICON	49
3.	25.	GOLD-COPPER-ZINC	50
3.	26.	HOLMIUM-RHODIUM	50
3.	27.	INDIUM-THALLIUM	50
3.	28.	IRON-ALUMINIUM	50
3.	29.	IRON-MANGANESE	50
3.	30.	IRON-NICKEL-CHROMIUM	50
3.	31.	LANTHANUM HYDRIDE	50
3.	32.	LEAD-MAGNESIUM	50
3.	33.	LEAD-	50

3.	34.	LEAD-THALLIUM	.....	PB-TL	.....	51
3.	35.	LITHIUM-ALUMINIUM HYDRIDE	.....	LI-AL-H	.....	51
3.	36.	LITHIUM-LEAD	.....	LI-PB	.....	51
3.	37.	MAGNESIUM HYDRIDE	.....	MG-H	.....	51
3.	38.	MANGANESE-COBALT	.....	MN-CO	.....	51
3.	39.	MAGNESIUM-LEAD	.....	MG-PB	.....	51
3.	40.	MAGNESIUM-LITHIUM	.....	MG-LI	.....	51
3.	41.	MAGNESIUM-ZINC	.....	MG-ZN	.....	51
3.	42.	MANGANESE-PLATINUM	.....	MN-PT	.....	51
3.	43.	NICKEL-BERYLLIUM	.....	NI-BE	.....	51
3.	44.	NICKEL-IRON	.....	NI-FE	.....	52
3.	45.	NICKEL-PALLADIUM	.....	NI-PD	.....	52
3.	46.	NICKEL-PLATINUM	.....	NI-PT	.....	52
3.	47.	NIObIUM HYDRIDE	.....	NB-H	.....	52
3.	48.	NIObIUM-MOLYBDENUM	.....	NB-MO	.....	52
3.	49.	PALLADIUM HYDRIDE	.....	PD-H	.....	52
3.	50.	PALLADIUM-IRON	.....	PD-FE	.....	53
3.	51.	PALLADIUM-MANGANESE	.....	PD-MN	.....	53
3.	52.	PALLADIUM-MANGANESE-TIN	.....	PD-MN-SN	.....	53
3.	53.	PALLADIUM-SILVER HYDRIDE	.....	PD-AG-H	.....	53
3.	54.	SODIUM-ALUMINIUM HYDRIDE	.....	NA-AL-H	.....	53
3.	55.	SODIUM-POTASSIUM	.....	NA-K	.....	53
3.	56.	STRONTIUM HYDRIDE	.....	SR-H	.....	53
3.	57.	STRONTIUM-LITHIUM HYDRIDE	.....	SR-LI-H	.....	54
3.	58.	TANTALUM HYDRIDE	.....	TA-H	.....	54
3.	59.	TANTALUM-NIOBIUM	.....	TA-NB	.....	54
3.	60.	TERBIUM HYDRIDE	.....	TB-H	.....	54
3.	61.	THORIUM HYDRIDE	.....	TH-H	.....	54
3.	62.	TITANIUM HYDRIDE	.....	TI-H	.....	54
3.	63.	TITANIUM-URANIUM	.....	TI-U	.....	54
3.	64.	TITANIUM-ZIRCONIUM	.....	TI-ZR	.....	54
3.	65.	URANIUM HYDRIDE	.....	U-H	.....	54
3.	66.	VANADIUM-BERYLLIUM	.....	V-BE	.....	55
3.	67.	VANADIUM HYDRIDE	.....	V-H	.....	55
3.	68.	VANADIUM-NICKEL	.....	V-NI	.....	55

3.	69.	VANADIUM-PLATINUM	.....	V-PT	.....	55
3.	70.	YTTERBIUM HYDRIDE	.....	YB-H	.....	55
3.	71.	YTTRIUM-HOLMIUM	.....	Y-HO	.....	55
3.	72.	YTTRIUM HYDRIDE	.....	Y-H	.....	55
3.	73.	YTTRIUM-TERBIUM	.....	Y-TB	.....	55
3.	74.	YTTRIUM-ZINC	.....	Y-ZN	.....	56
3.	75.	ZIRCONIUM HYDRIDE	.....	ZR-H	.....	56
3.	76.	ZIRCONIUM-NIOBIUM	.....	ZR-NB	.....	56

4. INORGANIC COMPOUNDS

4.	1.	AMMONIA	.....	N.H3	.....	57
4.	2.	AMMONIA AZIDE	.....	N.H4.N3	.....	57
4.	3.	AMMONIUM BROMIDE	.....	N.H4.BR	.....	57
4.	4.	AMMONIUM BROMOSTANNATE	.....	(N.H4)2.SN.BR6	.....	57
4.	5.	AMMONIUM CHLORIDE	.....	N.H4.CL	.....	58
4.	6.	AMMONIUM CHLORIDE-POTASSIUM CHLORIDE	.....	N.H4.CL-K.CL	.....	58
4.	7.	AMMONIUM CHLOROSTANNATE	.....	(N.H4)2.SN.CL6	.....	58
4.	8.	AMMONIUM CHROMATE	.....	(N.H4)2.CR.04	.....	58
4.	9.	AMMONIUM DICHROMATE	.....	(N.H4)2.CR2.07	.....	58
4.	10.	AMMONIUM DIHYDROGEN ORTHOARSENATE	.....	N.H4.H2.AS.04	.....	59
4.	11.	AMMONIUM DIHYDROGEN ORTHOPHOSPHATE	.....	N.H4.H2.P.04	.....	59
4.	12.	AMMONIUM DISULFATE	.....	(N.H4)2.S2.08	.....	59
4.	13.	AMMONIUM FLUOBERYLLATE	.....	(N.H4)2.BE.F4	.....	59
4.	14.	AMMONIUM FLUORIDE	.....	N.H4.F	.....	59
4.	15.	AMMONIUM FLUOSILICATE	.....	(N.H4)2.SI.F6	.....	59
4.	16.	AMMONIUM FLUOSULFONATE	.....	N.H4.S.03.F	.....	59
4.	17.	AMMONIUM HEXAFLUOPHOSPHATE	.....	N.H4.P.F6	.....	59
4.	18.	AMMONIUM HYDROGEN SULFATE	.....	N.H4.H.S.04	.....	59
4.	19.	AMMONIUM IODIDE	.....	N.H4.I	.....	60
4.	20.	AMMONIUM NITRATE	.....	N.H4.N.03	.....	60
4.	21.	AMMONIUM PERCHLORATE	.....	N.H4.CL.04	.....	60
4.	22.	AMMONIUM SULFATE	.....	(N.H4)2.S.04	.....	60
4.	23.	AMMONIUM THIOCYANATE	.....	N.H4.C.N.S	.....	60

4.	24.	AMMONIUM TRIHYDROGEN PARAPERIODATE ..	(N.H4)2.H3.I.06	60
4.	25.	ALUMINIUM CHLORIDE ..	AL.CL3	61
4.	26.	ALUMINIUM NITRIDE ..	AL.N	61
4.	27.	ALUMINIUM PHOSPHATE ..	AL.P.04	61
4.	28.	ANALCITE ..		61
4.	29.	APOPHYLLITE ..		61
4.	30.	BARIUM CHLORIDE ..	BA.CL2	61
4.	31.	BARIUM CHLORATE HYDRATE ..	BA.(CL.03)2*H2.0	61
4.	32.	BARIUM FLUORIDE ..	BA.F2	61
4.	33.	BARIUM OXIDE ..	BA.O	61
4.	34.	BARIUM TITANATE ..	BA.TI.03	62
4.	35.	BERYLLIUM FLUORIDE ..	BE.F2	62
4.	36.	BERYLLIUM OXIDE ..	BE.O	62
4.	37.	CADMIUM FLUORIDE ..	CD.F2	62
4.	38.	CADMIUM SULFIDE ..	CD.S	63
4.	39.	CADMIUM TELLURIDE ..	CD.TE	63
4.	40.	CALCITE ..	CA.C.03	63
4.	41.	CALCIUM FLUORIDE ..	CA.F2	63
4.	42.	CALCIUM HYDROXIDE ..	CA.(O.H)2	63
4.	43.	CALCIUM OXIDE ..	CA.O	63
4.	44.	CALCIUM SULFATE DIHYDRATE ..	CA.S.04*2(H2.O)	63
4.	45.	CARBON DIOXIDE ..	C.O2	64
4.	46.	CARBON DISULFIDE ..	C.S2	64
4.	47.	CARBON OXIDE ..	C.O	64
4.	48.	CARBON TETRACHLORIDE ..	C.CL4	64
4.	49.	CARBON TETRAFLUORIDE ..	C.F4	64
4.	50.	CESIUM AZIDE ..	CS.N3	64
4.	51.	CESIUM CHLORIDE ..	CS.CL	64
4.	52.	CESIUM BROMIDE ..	CS.BR	65
4.	53.	CESIUM FLUORIDE ..	CS.F	65
4.	54.	CESIUM HYDROGEN BROMIDE ..	CS.H.BR2	65
4.	55.	CESIUM HYDROGEN CHLORIDE ..	CS.H.CL2	65
4.	56.	CESIUM HYDROSULFIDE ..	CS.S.H	65
4.	57.	CESIUM IODIDE ..	CS.I	66
4.	58.	CESIUM LEAD CHLORIDE ..	CS.PB.CL3	66

4.	59.	CESIUM NICKEL FLUORIDE	.....	CS.NI.F3	.....	66
4.	60.	CESIUM URANIUM BROMIDE	.....	CS2.U.BR6	.....	66
4.	61.	CHABAZITE	.....	CHABAZITE	.....	66
4.	62.	CHALCOPYRITE	.....	CU.FE.S2	.....	66
4.	63.	CHROMIUM SESQUIOXIDE	.....	CR2.O3	.....	66
4.	64.	CHROMIUM(3) ACID	.....	H.CR.O2	.....	66
4.	65.	CINNABAR	.....	HG.S	.....	66
4.	66.	COBALT HYDROGEN CARBONYL	.....	H.CO.(C.O)4	.....	67
4.	67.	COBALT FLUORIDE	.....	CO.F2	.....	67
4.	68.	COBALT OXIDE	.....	CO.O	.....	67
4.	69.	COBALT PHOSPHIDE	.....	CO.P	.....	67
4.	70.	COBALT PHOSPHIDE	.....	CO4.P	.....	67
4.	71.	COBALT(3) ACID	.....	H.CO.O2	.....	67
4.	72.	COPPER BROMIDE	.....	CU.BR	.....	67
4.	73.	COPPER CHLORIDE DIHYDRATE	.....	CU.CL2*2(H2.O)	.....	67
4.	74.	COPPER IODIDE	.....	CU.I	.....	67
4.	75.	COPPER SULFATE	.....	CU.S.O4	.....	68
4.	76.	CORUNDUM	.....	AL2.O3	.....	68
4.	77.	CRISTOBALITE	.....	SI.O2	.....	68
4.	78.	CUPRITE	.....	CU2.O	.....	68
4.	79.	CUPROUS CHLORIDE	.....	CU.CL	.....	68
4.	80.	DIAMMINEPENTACHLORODIMETHYLCOBALT	.....	(C.H3.N.H3)2.MN.CL4	.....	68
4.	81.	DICARBON HEXAFLUORIDE	.....	C2.F6	.....	68
4.	82.	DYSPROSIUM VANACATE	.....	DY.V.O4	.....	68
4.	83.	DYSPROSIUM ANTIMONIDE	.....	DY.SB	.....	69
4.	84.	ERBIUM IRON OXIDE	.....	ER.FE.O3	.....	69
4.	85.	GADOLINIUM MOLYBDATE	.....	GA.SB	.....	69
4.	86.	GALLIUM ANTIMONIDE	.....	GA.AS	.....	69
4.	87.	GALLIUM ARSENIDE	.....	GA.P	.....	69
4.	88.	GALLIUM PHOSPHIDE	.....	GA2.SE3	.....	69
4.	89.	GALLIUM SESQUISELENIDE	.....	GA2.S3	.....	69
4.	90.	GALLIUM SESQUISULFIDE	.....	GE.BR4	.....	69
4.	91.	GERMANIUM TETRABROMIDE	.....	HF.C	.....	70
4.	92.	HAFNIUM CARBIDE	.....	D2.O	.....	70
4.	93.	HEAVY WATER	.....		.....	70

4. 94.	HEXAMMINECOBALT IODIDE	.....	CO.(N.H3)6.I2	.....	71
4. 95.	HEXAMMINEMICKEL IODIDE	.....	NI.(N.H3)6.I2	.....	71
4. 96.	HOLMIUM ANTIMONIDE	.....	HO.SB	.....	71
4. 97.	HYDROGEN BROMIDE	.....	H.BR	.....	71
4. 98.	HYDROGEN CHLORIDE	.....	H.CL	.....	71
4. 99.	HYDROGEN CYANIDE	.....	H.C.N	.....	71
4.100.	HYDROGEN FLUORIDE	.....	H.F	.....	72
4.101.	HYDROGEN SULFIDE	.....	H2.S	.....	72
4.102.	HYDRONIUM NITRATE	.....	H3.O.N.03	.....	72
4.103.	INDIUM ANTIMONIDE	.....	IN.SB	.....	72
4.104.	INDIUM PHOSPHIDE	.....	IN.P	.....	72
4.105.	INDIUM TELLURIDE	.....	IN2.TE3	.....	72
4.106.	IRON BROMIDE	.....	FE.BR2	.....	73
4.107.	IRON CHLORIDE	.....	FE.CL2	.....	73
4.108.	IRON FLUORIDE	.....	FE.F2	.....	73
4.109.	IRON HYDROGEN CARBONYL	.....	H2.FE.(C.O)4	.....	73
4.110.	IRON SESQUIOXIDE	.....	FE2.O3	.....	73
4.111.	KCP	.....	K2.PT.(C.N)4.BRO.3	.....	73
4.112.	LANTHANUM ALUMINATE	.....	LA.AL.03	.....	73
4.113.	LANTHANUM CHLORIDE	.....	LA.CL3	.....	73
4.114.	LANTHANUM TRIFLUORIDE	.....	LA.F3	.....	73
4.115.	LEAD FLUORIDE	.....	PB.F2	.....	74
4.116.	LEAD METATITANATE	.....	PB.TI.03	.....	74
4.117.	LEAD SELENIDE	.....	PB.SE	.....	74
4.118.	LEAD SULFIDE	.....	PB.S	.....	74
4.119.	LEAD TELLURIDE	.....	PB.TE	.....	74
4.120.	LEAD ZIRCONATE	.....	PB.ZR.03	.....	74
4.121.	LIGHT WATER	.....	H2.O	.....	74
4.122.	LITHIUM BROMIDE	.....	LI.BR	.....	77
4.123.	LITHIUM CHLORIDE	.....	LI.CL	.....	77
4.124.	LITHIUM FLUORIDE	.....	LI.F	.....	78
4.125.	LITHIUM HYDRIDE	.....	LI.H	.....	78
4.126.	LITHIUM HYDROXIDE	.....	LI.O.H	.....	78
4.127.	LITHIUM IODINE	.....	LI.I	.....	78
4.128.	LITHIUM NIOBATE	.....	LI.NB.03	.....	78

4.129.	LITHIUM SULFATE MONOHYDRATE	.....	LI2.S.04*H2.O	.....	78
4.130.	LITHIUM SULFATE	.....	LI2.S.04.H2.O	.....	79
4.131.	LITHIUM YTTRIUM TETRAFLUORIDE	.....	LI.Y.F4	.....	79
4.132.	MAGNESIUM FLUORIDE	.....	MG.F2	.....	79
4.133.	MAGNESIUM HYDROXIDE	.....	MG.(O.H)2	.....	79
4.134.	MAGNESIUM LEAD	.....	MG2.PB	.....	79
4.135.	MAGNESIUM OXIDE	.....	MG.O	.....	79
4.136.	MAGNESIUM STANIDE	.....	MG2.SN	.....	80
4.137.	MAGNESIUM ZINC2	.....	MG.ZN2	.....	80
4.138.	MAGNETITE	.....	FE3.O4	.....	80
4.139.	MANGANESE FERRITE	.....	MN.FE2.O4	.....	80
4.140.	MANGANESE FLUORIDE	.....	MN.F2	.....	80
4.141.	MANGANESE HYDROGEN CARBONYL (1)	.....	H.MN.(C.O)5	.....	80
4.142.	MANGANESE HYDROGEN CARBONYL (2)	.....	H3.MN3.(C.O)12	.....	80
4.143.	MANGANESE MONOXIDE	.....	MN.O	.....	80
4.144.	MOLYBDENUM DISULFIDE	.....	MO.S2	.....	81
4.145.	NICKEL CHLORIDE	.....	NI.CL2	.....	81
4.146.	NICKEL MONOSULFIDE	.....	NI.S	.....	81
4.147.	NICKEL OXIDE	.....	NI.O	.....	81
4.148.	NIObIUM CARBIDE	.....	NB.C	.....	81
4.149.	NIObIUM OXIDE	.....	NB.O2	.....	81
4.150.	NIObIUM IIN	.....	NB3.SN	.....	81
4.151.	POTASSIUM ACID FLUORIDE	.....	K.H.F2	.....	81
4.152.	POTASSIUM AMMONIUM CHLORIDE	.....	K.N.H4.CL	.....	82
4.153.	POTASSIUM AZIDE	.....	K.N3	.....	82
4.154.	POTASSIUM BROMIDE	.....	K.BR	.....	82
4.155.	POTASSIUM CHLORIDE	.....	K.CL	.....	82
4.156.	POTASSIUM COBALT TRIFLUORIDE	.....	K.CO.F3	.....	83
4.157.	POTASSIUM(2) COBALT FLUORIDE	.....	K2.CO.F4	.....	83
4.158.	POTASSIUM COPPER FLUORIDE	.....	K.CU.F3	.....	83
4.159.	POTASSIUM(2) COPPER FLUORIDE	.....	K2.CU.F4	.....	83
4.160.	POTASSIUM(2) MANGANESE FLUORIDE	.....	K2.MN.F4	.....	83
4.161.	POTASSIUM CYANIDE	.....	K.C.N	.....	83
4.162.	POTASSIUM DIHYDROGEN FLUORIDE	.....	K.H2.F3	.....	83
4.163.	POTASSIUM DIHYDROGEN PHOSPHATE	.....	K.H2.P.O4	.....	83

4.164.	POTASSIUM FERROCYANIDE	.....	K4.FE.(C.N)6	84
4.165.	POTASSIUM FLUORIDE	.....	K.F	84
4.166.	POTASSIUM HYDROGEN IRON CARBONYL	.....	K.H.FE.(C.O)4	84
4.167.	POTASSIUM HYDROGEN TRICHLOROACETATE	.....	K.H.(C.CL3.C.O2)2	84
4.168.	POTASSIUM IODIDE	.....	K.I	84
4.169.	POTASSIUM MANGANESE TRIFLUORIDE	.....	K.MN.F3	84
4.170.	POTASSIUM MONOHYDROGEN PHOSPHATE	.....	K2.H.P.O4	84
4.171.	POTASSIUM NIOBATE	.....	K.NB.O3	85
4.172.	POTASSIUM OXALATE HYDRATE	.....	K2.C2.O4*H2.O	85
4.173.	POTASSIUM PHOSPHATE	.....	K3.P.O4	85
4.174.	POTASSIUM RHENIUM CHLORIDE	.....	K2.RE.CL6	85
4.175.	POTASSIUM RHENIUM HYDRIDE	.....	K2.RE.H9	85
4.176.	POTASSIUM TANTALATE	.....	K.TA.O3	85
4.177.	PRASEODYMIUM ALUMINATE	.....	PR.AL.O3	85
4.178.	QUARTZ	.....	SI.O2	85
4.179.	RUBIDIUM AZIDE	.....	RB.N3	86
4.180.	RUBIDIUM BROMIDE	.....	RB.BR	86
4.181.	RUBIDIUM CHLORIDE	.....	RB.CL	86
4.182.	RUBIDIUM FLUOMANGANATE	.....	RB.MN.F3	86
4.183.	RUBIDIUM FLUORIDE	.....	RB.F	86
4.184.	RUBIDIUM HYDROSULFIDE	.....	RB.S.H	86
4.185.	RUBIDIUM IODIDE	.....	RB.I	86
4.186.	RUTILE	.....	TI.O2	87
4.187.	RUTHENIUM TETROXIDE	.....	RU.O4	87
4.188.	SELENIUM TELLURIDE	.....	SE.TE	87
4.189.	SILANE	.....	SI.H4	87
4.190.	SILICA	.....	SI.O2	87
4.191.	SILICON CARBIDE	.....	SI.C	87
4.192.	SILVER BROMIDE	.....	AG.BR	87
4.193.	SILVER CHLORIDE	.....	AG.CL	87
4.194.	SILVER GALLIUM SULFIDE	.....	AG.GA.S2	88
4.195.	SILVER IODINE	.....	AG.I	88
4.196.	SODAMIDE	.....	NA.N.H2	88
4.197.	SODIUM AZIDE	.....	NA.N3	88
4.198.	SODIUM BROMIDE	.....	NA.BR	88

4.199.	SODIUM CHLORIDE	.....	NA.CL	.....	88
4.200.	SODIUM CYANIDE	.....	NA.C.N	.....	89
4.201.	SODIUM DIHYDROGEN FLUORIDE	.....	NA.H2.F3	.....	89
4.202.	SODIUM FLUORIDE	.....	NA.F	.....	89
4.203.	SODIUM HYDROGEN CARBONATE	.....	NA.H.C.03	.....	89
4.204.	SODIUM HYDROGEN FLUORIDE	.....	NA.H.F2	.....	89
4.205.	SODIUM HYDROSULFIDE	.....	NA.S.H	.....	89
4.206.	SODIUM IODIDE	.....	NA.I	.....	89
4.207.	SODIUM NITRATE	.....	NA.N.03	.....	90
4.208.	SODIUM NIOBATE	.....	NA.NB.03	.....	90
4.209.	SODIUM NITRITE	.....	NA.N.02	.....	90
4.210.	SODIUM RHENIUM HYDRIDE	.....	NA2.RE.H9	.....	90
4.211.	STRONTIUM CHLORIDE	.....	SR.CL2	.....	90
4.212.	STRONTIUM FLUORIDE	.....	SR.F2	.....	90
4.213.	STRONTIUM OXIDE	.....	SR.O	.....	90
4.214.	STRONTIUM TITANATE	.....	SR.TI.03	.....	91
4.215.	TANTALUM CARBIDE	.....	TA.C	.....	91
4.216.	TELLURIUM DIOXIDE	.....	TE.O2	.....	91
4.217.	TERBIUM VANADATE	.....	TB.V.04	.....	92
4.218.	THALLOUS CHLORIDE	.....	TL.CL	.....	92
4.219.	THALLOUS BROMIDE	.....	TL.BR	.....	92
4.220.	THIOUREA	.....	S.C.(N.H2)2	.....	92
4.221.	THORIUM DIOXIDE	.....	TH.O2	.....	92
4.222.	THULIUM IRON OXIDE	.....	TM.FE.03	.....	92
4.223.	TIN DIOXIDE	.....	SN.O2	.....	92
4.224.	TIN TELLURIDE	.....	SN.TE	.....	92
4.225.	TITANIUM CARBIDE	.....	TI.C	.....	92
4.226.	TUNGSTATE	.....	CA.W.04	.....	93
4.227.	URANIUM CARBIDE	.....	U.C	.....	93
4.228.	URANIUM DIOXIDE	.....	U.O2	.....	93
4.229.	UREA	.....	C.O.(N.H2)2	.....	93
4.230.	VANADIUM CARBIDE	.....	V.C	.....	93
4.231.	VANADIUM OXIDE	.....	V.O2	.....	93
4.232.	VANADIUM SILICIDE	.....	V3.SI	.....	93
4.233.	XENON TETROXIDE	.....	XE.04	.....	94

4.234.	YTTORIUM VANADATE	Y.V.04	94
4.235.	ZINC OXIDE	ZN.O	94
4.236.	ZINC SELENIDE	ZN.SE	94
4.237.	ZINC SILICON PHOSPHIDE	ZN.SI.P2	94
4.238.	ZINC SULFIDE	ZN.S	94
4.239.	ZINC TELLURIDE	ZN.TE	94
4.240.	ZIRCONIUM CARBIDE	ZR.C	95

5. ORGANIC COMPOUNDS

5. 1.	ACENAPHTHENE	C12.H10	96
5. 2.	ACETIC ACID	C2.H4.O2	96
5. 3.	ACETONITRILE	C.H3.C.N	96
5. 4.	ACETYLENE	C2.H2	96
5. 5.	ADAMANTANE	C10.H16	96
5. 6.	ALCOHOL		96
5. 7.	ANTHRAQUINONE	ANTHRAQUINONE	96
5. 8.	ALPHA-AMINO-ISOBUTYRIC-ACID	AAIA	97
5. 9.	ANILINE	C6.H7.N	97
5. 10.	ANNULENE	ANNULENE	97
5. 11.	ANTHRACENE	C14.H10	97
5. 12.	BENZENE	C6.H6	97
5. 13.	BIPHENYL	C12.H10	98
5. 14.	BIPHYLE		98
5. 15.	BUTANE	C4.H10	98
5. 16.	BUTANOANNULENE	BUTANOANNULENE	98
5. 17.	BUTANOL	C4.H10.O	99
5. 18.	BUTYRIC ACID	BUTYRIC ACID	99
5. 19.	CARBOXYLIC ACID	CARBOXYLIC ACID	99
5. 20.	CHLOROBENZENE	C6.H5.CL	99
5. 21.	CHLOROETHANE	C2.H5.CL	99
5. 22.	CHLORONAPHTHALENE	C10.H7.CL	99
5. 23.	CYANAMIDE	C.H2.N2	99
5. 24.	CYCLOHEXANE	C6.H12	99

5.	25.	CYCLOHEXANOL	.....	C6.H12.O	.....	100
5.	26.	DIAZOBICYCLOOCTANE	.....		.....	100
5.	27.	DIBROMOBENZENE	.....	C6.H4.BR2	.....	100
5.	28.	DICALCIUM LEAD PROPIONATE	.....	(C3.H5.O2)6.CA2.PB	.....	100
5.	29.	DICALCIUM STRONTIUM PROPIONATE	.....	CA2.SR.(C3.H5.O2)6	.....	100
5.	30.	DICHLOROETHANE	.....	DICHLOROETHANE	.....	100
5.	31.	DICHLOROBENZENE	.....	C6.H4.CL2	.....	100
5.	32.	DIMETHYLACETYLENE	.....		.....	100
5.	33.	DIMETHYLBUTANE	.....		.....	100
5.	34.	DIMETHYLSULPHONE	.....		.....	100
5.	35.	DIMETHYLSULPHOXIDE	.....		.....	101
5.	36.	DNA	.....	DNA	.....	101
5.	37.	DODECANE	.....	C12.H26	.....	101
5.	38.	EICOSANE	.....	C20.H42	.....	101
5.	39.	ETHANE	.....	C2.H6	.....	101
5.	40.	ETHANEDIOL	.....		.....	101
5.	41.	ETHANOL	.....	C2.H5.O	.....	101
5.	42.	ETHYL ETHER	.....	(C2.H5)2.O	.....	101
5.	43.	ETHYL CHLORIDE	.....	C2.H5.CL	.....	102
5.	44.	ETHYLENE	.....	C2.H4	.....	102
5.	45.	ETHYLENE GLYCOL	.....	C2.H6.O2	.....	102
5.	46.	FLUORINATED CYCLOHEXANE	.....		.....	102
5.	47.	FORMIC ACID	.....	C.H2.O2	.....	102
5.	48.	GLYCELINE	.....	C3.H8.O3	.....	102
5.	49.	GLYCINE	.....	GLYCINE	.....	102
5.	50.	HEPTANE	.....	C7.H16	.....	102
5.	51.	HEXAMETHYLBENZENE	.....	C12.H18	.....	102
5.	52.	HEXAMETHYLENETETRAMINE	.....	C6.H12.N4	.....	103
5.	53.	HEXANE	.....	C6.H14	.....	103
5.	54.	IODIFORM	.....	C.H.I3	.....	103
5.	55.	MALONIC ACID	.....	C3.K4.O4	.....	103
5.	56.	MERCAPTAN	.....	C2.H6.S	.....	103
5.	57.	METHANE	.....	C.H4	.....	103
5.	58.	METHANETELLUROL	.....	C.H4.TE	.....	105
5.	59.	METHANOL	.....	C.H4.O	.....	105

5. 95.	POLYVINYL CHLORIDE	.....	.....	111
5. 96.	POTASSIUM TRICHLOROACETATE	.....	K.C2.CL3.02	111
5. 97.	POTASSIUM TRIFLUOROACETATE	.....	K.C2.F3.02	111
5. 98.	PROPANE	.....	C3.H8	111
5. 99.	PROPANOL	.....	C3.H8.O	111
5.100.	PROPIONIC ACID	.....	C3.H6.O2	111
5.101.	PYRAZINE	.....	C4.H4.N2	112
5.102.	PYRENE	.....	C16.H10	112
5.103.	PYRIDINE	.....	PYRIDINE	112
5.104.	RESIN	.....	.....	112
5.105.	RUBBER	.....	.....	112
5.106.	TAURINE	.....	TAURINE	112
5.107.	TERPHENYL	.....	C18.H14	112
5.108.	TOLUENE	.....	C7.H8	112
5.109.	TRICHLOROMETHANE	.....	C.H.CL3	112
5.110.	TRIFLUOROETHANE	.....	C.H3.C.F3	112

6. ADSORPTIONS AND SOLUTIONS

6. 1.	ACETYLENE-CHARCOAL	.....	C2.H2-CHARCOAL	114
6. 2.	ALCOHOL-WATER	.....	.....	114
6. 3.	AMMONIA-ZEOLITE	.....	.....	114
6. 4.	AMMONIUM FLUORIDE-WATER	.....	N.H4.F-H2.O	114
6. 5.	ARGON-GRAPHITE	.....	AR-GRAPHITE	114
6. 6.	CESIUM CHLORIDE-WATER	.....	CS.CL-H2.O	114
6. 7.	CHROMIUM CHLORIDE-WATER	.....	CR.CL3-H2.O	114
6. 8.	DIETHYL DIETHYLENE GLYCOL-CARBON DISULFIDE	.....	.....	114
6. 9.	ETHYL ETHER-CARBON DISULFIDE	.....	(C2.H5)2.O-C.S2	114
6. 10.	ETHYLENE-CHARCOAL	.....	C2.H4-CHARCOAL	114
6. 11.	HYDROGEN-CHARCOAL	.....	H2-CHARCOAL	115
6. 12.	HYDROGEN-PLATINUM	.....	H-PT	115
6. 13.	HYDROGEN FLUORIDE-WATER	.....	H.F-H2.O	115
6. 14.	LANTHANUM CHLORIDE-WATER	.....	LA.CL3-H2.O	115
6. 15.	LANTHANUM NITRATE-WATER	.....	LA.(N.O3)3-H2.O	115

6. 16.	LITHIUM CHLORIDE-WATER	.....	LI.CL-H2.0	.....	115
6. 17.	MAGNESIUM CHLORIDE-WATER	.....	MG.CL2-H2.0	.....	115
6. 18.	METHANE-CHARCOAL	.....	C.H4-CHARCOAL	.....	115
6. 19.	METHANE-QUINOL	.....	C.H4-C6.H4.(O.H)2	.....	115
6. 20.	METHANOL-QUINOL	.....	C.H4.O-C6.H4.(O.H)2	.....	115
6. 21.	METHYL CYANIDE-QUINOL	.....	C.H3.N-C6.H4.(O.H)2	.....	116
6. 22.	NITROGEN-GRAPHITE	.....	N-GRAPHITE	.....	116
6. 23.	POTASSIUM CHLORIDE-WATER	.....	K.CL-H2.0	.....	116
6. 24.	SODIUM CHLORIDE-WATER	.....	NA.CL-H2.0	.....	116
6. 25.	WATER-ALUMINA	.....	H2.O-AL.O3	.....	116
6. 26.	WATER-BERYL	.....	H2.O-BE3.AL2.SI6.O18	.....	116
6. 27.	WATER-POTASSIUM FERROCYANIDE TRIHYDRATE	.....	.....	.....	116
6. 28.	WATER-QUINOL	.....	H2.O-C6.H4.(O.H)2	.....	116
6. 29.	WATER-SILICA	.....	H2.O-SI.O2	.....	116

PART 2. LIST OF REFERENCES, ORDERED BY THE PUBLISHED YEAR AND THE FIRST AUTHOR NAME

-----117

PART 1

LIST OF REFERENCE NUMBERS AND KEY WORDS
CLASSIFIED BY MATERIALS

1 GENERAL ARTICLES

1. 1 REVIEW-ARTICLES
- 54-EG-02 EGELSTAFF, SCHOFIELD REVIEW-ARTICLES ..REVIEW/ LIQUID DYNAMICS/ EXPERIMENTAL PRINCIPLES
59-EG-01 EGELSTAFF REVIEW-ARTICLES ..NEUTRON SPECTROSCOPY
60-EG-01 EGELSTAFF REVIEW-ARTICLES ..EXPERIMENTAL ARRANGEMENTS AND METHOD/ SCATTERING LAW MEASUREMENTS
61-NE-01 NELKIN REVIEW-ARTICLES ..SCATTERING THEORY ..NEUTRON THERMALIZATION
62-FU-01 FURUKAWA REVIEW-ARTICLES ..LIQUID/ EXPERIMENT/ NEUTRON SCATTERING ..RADIAL DISTRIBUTION/ X-RAY SCATTERIN
63-SI-02 SINGWI REVIEW-ARTICLES ..THEORY ..MOESSBAUER EFFECT
63-WO-03 WOODS REVIEW-ARTICLES ..LATTICE DYNAMICS/ SOLID/ EXPERIMENT ..NEUTRON SPECTROMETRY
64-BR-01 BROCKHOUSE, WOODS+ REVIEW-ARTICLES ..EXPERIMENT/ SOLID/ LIQUID
64-BR-02 BROCKHOUSE, HAUTECLER+ REVIEW-ARTICLES ..EXPERIMENT/ LALLICE DYNAMICS ..NEUTRON SPECTROSCOPY
64-BR-03 BROCKHOUSE REVIEW-ARTICLES ..EXPERIMENT/ LATTICE DYNAMICS ..NEUTRON SPECTROSCOPY
64-NI-02 NIJBORE, KOKKEDEE REVIEW-ARTICLES ..SCATTERING THEORY/ SOLID/ LIQUID ..THIS IS TRANSLATED FROM NED, TIJDS
64-SJ-01 SJOELANDER REVIEW-ARTICLES ..SCATTERING THEORY
65-EG-01 EGELSTAFF REVIEW-ARTICLES ..THEORY/ EXPERIMENT ..BOOK
65-EG-02 EGELSTAFF REVIEW-ARTICLES ..LIQUID
65-EG-03 EGELSTAFF, SCHOFIELD REVIEW-ARTICLES ..LIQUID/ THEORY/ FREQUENCY SPECTRUM/ CORRELATION FUNCTION/ SCATTERIN
65-EG-04 EGELSTAFF, SCHOFIELD REVIEW-ARTICLES ..REVIEW/ PHYSICAL PROPERTY/ TIME-DEPENDENT DISTRIBUTION/ NEUTRON EXP
65-LA-02 LARSSON REVIEW-ARTICLES ..LIQUID/ MOLECULAR DYNAMICS
65-LO-01 LOMER REVIEW-ARTICLES ..REVIEW/ NEUTRON SCATTERING/ LATTICE DYNAMICS
65-PA-03 PALEVSKY REVIEW-ARTICLES ..EXPERIMENT/ MOLECULAR DYNAMICS
65-TU-02 TURCHIN REVIEW-ARTICLES ..BOOK
65-ZY-01 JAPANESE NUCLEAR DATA COMMITTEE + REVIEW-ARTICLES ..CROSS SECTION EVALUATION
65-ZY-02 JAPANESE NUCLEAR DATA COMMITTEE + REVIEW-ARTICLES ..EVALUATION/ SCATTERING LAW
66-EG-02 EGELSTAFF REVIEW-ARTICLES ..LIQUID/ CORRELATION FUNCTION/ TRANSPORT PHENOMENA
66-LO-01 LOMER REVIEW-ARTICLES ..REVIEW/ MAGNETIC SCATTERING/ SPIN WAVES/ CRITICAL SCATTERING/ DEFECT SCATTERI
66-PA-01 PALEVSKI REVIEW-ARTICLES ..FILTER-CHOPPER METHOD/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION FUNCTION/
66-PA-03 PASKIN REVIEW-ARTICLES ..AR/ NA/ CE/ RB ..LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTOCORRELATION FU
66-VE-02 VENKATARAMAN REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID DYNAMICS
66-WI-01 WILLIAMS REVIEW-ARTICLES ..BOOK
66-ZY-02 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE + REVIEW-ARTICLES ..DYNAMICS OF SOLIDS AND LIQUIDS
67-BE-04 BEYSTER, NEIL REVIEW-ARTICLES
67-CU-02 CUSACK REVIEW-ARTICLES ..LIQUID METAL/ PHYSICAL PROPERTIES
67-EG-02 EGELSTAFF REVIEW-ARTICLES ..LIQUID
67-EG-04 EGELSTAFF REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING FUNCTION/ TRANSPORT PROPERTIES
67-EG-05 EGELSTAFF REVIEW-ARTICLES ..LIQUID/ STRUCTURE/ TRANSPORT PROPERTIES/ NEUTRON SCATTERING
67-EG-06 EGELSTAFF REVIEW-ARTICLES ..THEORETICAL BACKGROUND
67-GL-01 GLAESER REVIEW-ARTICLES/ H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATT
67-NG-02 NG, BROCKHOUSE BI-PB-TL/ ..PHONON DISPERSION/ ALLOY SYSTEM
67-PA-03 PALEVSKY REVIEW-ARTICLES ..EXPLANATION ON NEUTRON INELASTIC SCATTERING
67-SA-01 SAFFORD, NAUMANN REVIEW-ARTICLES ..EXPERIMENTAL REVIEW/ POLYMER/ TOF SPECTRUM/ FREQUENCY SPECTRUM
68-BO-05 BOUTIN, PRASK REVIEW-ARTICLES ..WATER ADSORBED/ WATER IN BIOLOGICAL SYSTEMS
68-DA-03 DASANNACHARYA REVIEW-ARTICLES ..MOLECULAR LIQUID/ MOLECULAR MOTION/ NEUTRON SCATTERING
68-PO-03 POWLES REVIEW-ARTICLES ..TO COMPARE NMR WITH THAT OF NEUTRON SCATTERING
68-ZY-01 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE + REVIEW-ARTICLES ..DYNAMICS OF SOLIDS AND LIQUIDS
69-BO-02 BOFFI, CAGLIOTTI REVIEW-ARTICLES ..LATTICE DYNAMICS
69-BO-03 BOFFI, CAGLIOTTI REVIEW-ARTICLES ..LATTICE DYNAMICS/ EXPERIMENT/ TOF

69-BO-04 BOFFI, CAGLIOTI REVIEW-ARTICLES .. LATTICE DYNAMICS/ IONIC CRYSTAL/ METAL/ FEROELECTRIC MATERIAL
 69-BO-05 BOFFI, CAGLIOTI REVIEW-ARTICLES .. NEUTRON SPECTROSCOPY/ LATTICE DYNAMICS
 70-PA-06 PARKS, NELKIN+ REVIEW-ARTICLES .. BOOK/ THEORY/ EXPERIMENT/ NEUTRON SCATTERING/ REACTOR PHYSICS
 RAO REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS .. ATOMIC CORRELATION/ LIQUID
 70-SI-04 SINGH, PRAKASH LI/ RB/ K/ CS/ .. THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION .. ALKALI METAL
 70-VE-01 VENKATARAMAN, SAHNI THEORY-OF-SOLIDS/ REVIEW-ARTICLES .. FORMAL THEORY/ MOLECULAR CRYSTAL/ COMPLEX IONIC CR
 70-ZY-01 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE + REVIEW-ARTICLES .. DYNAMICS OF SPIN SYSTEM AND POLYMER
 71-HA-06 HARRYMAN, REYNOLDS+ REVIEW-ARTICLES .. DENSITY OF STATES/ PHONON/ AROMATIC CRYSTAL
 71-MU-02 MUSIMOVICI REVIEW-ARTICLES .. PROCEEDING OF THE INTERNATIONAL CONFERENCE, RENNES, FRANCE, 1971
 72-AL-02 ALLEN REVIEW-ARTICLES .. POLYMER CHAIN/ DYNAMICS
 72-BA-09 BAUR REVIEW-ARTICLES .. POLYMER-CRYSTAL/ PHONON/ DISPERSION CURVE/ THERMAL PROPERTIES
 72-GH-01 GHATAK, KOTHARI REVIEW-ARTICLES .. BOOK/ LATTICE DYNAMICS/ NEUTRON SCATTERING
 72-HA-01 HANKE, BILZ THEORY-OF-SOLIDS/ REVIEW-ARTICLES .. MICROSCOPIC THEORY/ PHONON/ METAL/ REVIEW
 72-JA-03 JACROT, KROO+ REVIEW-ARTICLES .. SUMMARR OF THE SYMPOSIUM
 72-PA-05 PAWLEY REVIEW-ARTICLES .. MOLECULAR CRYSTAL/ DYNAMICS
 72-SP-01 SPRINGER REVIEW-ARTICLES .. NEUTRON SCATTERING/ ORGANIC MOLECULAR CRYSTAL/ PHONON
 72-WH-01 WHITE REVIEW-ARTICLES .. NEUTRON SPECTROSCOPY/ SURFACE CHEMISTRY/ CATALYSIS
 73-LA-01 LAROSE, VANDEWAL REVIEW-ARTICLES .. NEUTRON SPECTROSCOPY/ MAGNETIC STRUCTURE/ PHONON/ MAGNON/ POLARIZED NEUTR
 73-NA-01 NAKAHARA GRAPHITE/ REVIEW-ARTICLES .. STRUCTURE ANALYSIS/ MAGNETIC STRUCTURE/ PHONON/ MAGNON/ POLARIZED NEUTR
 73-PO-02 POWLES REVIEW-ARTICLES .. THEORY, SCATTERING LAW/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ D
 73-RE-02 REISSLAND REVIEW-ARTICLES .. BOOK
 73-WI-01 WILLIS REVIEW-ARTICLES .. BOOK/ CHEMICAL APPLICATION/ THERMAL NEUTRON SCATTERING
 74-BO-01 BOETTGER REVIEW-ARTICLES .. VIBRATIONAL PROPERTIES/ NON-CRYSTALLINE SOLIDS/ IR, RAMAN SPECTRA/ NEUTRON, SC
 74-HU-01 HUCHINGS REVIEW-ARTICLES/ MAGNETIC-SCATTERING .. MAGNETIC INELASTIC SCATTERING/ MAGNON/ EXCITONS/ INORGAN
 74-RI-01 RISTE REVIEW-ARTICLES/ PHASE-TRANSITION .. CONFERENCE PROCEEDING/ NATO ADVANCED STUDY INSTITUTE
 74-SC-03 SCOTT REVIEW-ARTICLES .. THEORY/ EXPERIMENT/ SOLID/ STRUCTURAL PHASE TRANSITION/ NEUTRON SCATTERING/ I
 74-ZY-01 NEUTRON SCATTERING LABORATORY, DIVISION REVI

1. 2 NEUTRON-SCATTERING-IN-SOLIDS

44-WE-01 WEINSTOCK NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SOLID/ LATTICE DYNAMICS .. INELASTIC SCATTERING
 50-CA-01 CASSELS NEUTRON-SCATTERING-IN-SOLIDS .. THEORY
 50-FR-01 FROEMAN NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SOLIDS .. NEUTRON DIFFRACTION
 50-WA-01 WALLER, FROEMAN NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SOLIDS .. NEUTRON DIFFRACTION
 54-PL-01 PLACZEK, VAN-HOVE NEUTRON-SCATTERING-IN-SOLIDS .. SCATTERING THEORY/ SOLID/ LATTICE VIBRATION
 55-GL-01 GLAUBER NEUTRON-SCATTERING-IN-SOLIDS .. SCATTERING THEORY/ SOLID
 55-KO-02 KOTHARI, SINGWI NEUTRON-SCATTERING-IN-SOLIDS .. SCATTERING THEORY/ SOLID
 55-PL-01 PLACZEK, VAN-HOVE NEUTRON-SCATTERING-IN-SOLIDS .. THEORY
 56-SQ-01 SQUIRES NEUTRON-SCATTERING-IN-SOLIDS/ AL .. THEORY/ LATTICE VIBRATION/ FREQUENCY DISTRIBUTION .. ENERGY D
 57-SJ-01 SJOELANDER NEUTRON-SCATTERING-IN-SOLIDS .. SCATTERING THEORY/ SOLIDS/ LATTICE VIBRATION
 57-TU-01 TURCHIN NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SOLID
 59-BU-01 BURAS, O-CONNER NEUTRON-SCATTERING-IN-SOLIDS .. REVIEW/ NEUTRON SPECTROSCOPY
 59-KO-01 KOTHARI, SINGWI NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SOLID/ DISPERSION RELATION/ LATTICE DYNAMICS/ SIGMA
 61-BA-01 BAYM NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ LATTICE DYNAMICS/ SCATTERING FUNCTION
 61-EL-01 ELLIOTT, STERN NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SOLID .. PHONON LIFE-TIME
 61-KR-01 KRUEGER NEUTRON-SCATTERING-IN-SOLIDS .. THEORY
 61-MA-01 MARSHALL, STUART NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SIGMA(E) .. PLACZEK-S INCOHERENT APPROXIMATION
 61-SC-01 SCALETTAR NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ SCATTERING FUNCTION
 62-KO-01 KOKKEDDEE NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ ELECTRON-PHONON INTERACTIONS
 62-KO-02 KOKKEDDEE NEUTRON-SCATTERING-IN-SOLIDS .. THEORY, CRYSTAL, COHERENT SCATTERING, ANHARMONICITY
 62-MA-03 MARADUDIN, FEIN NEUTRON-SCATTERING-IN-SOLIDS .. THEORY, ANHARMONICITY .. ONE PHONON COHERENT SCATTERING/ PHONO

62-PU-03 PUROHIT NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ NEUTRON SPECTRUM ..CRYSTAL
63-HA-02 HAHN NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ THEORY
63-KO-01 KOKKEDEE NEUTRON-SCATTERING-IN-SOLIDS ..THEORY ..PHONON-INTERACTION/ ELECTRON-PHONON INTERACTION
63-TH-01 THOMSON NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ SOLID/ LATTICE DYNAMICS/ SCATTERING THEORY
64-MA-01 MARADUDIN, ANBEGAOKAR NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ SCATTERING FUNCTION/ LATTICE DYNAMICS/
64-MA-02 MARTIN NEUTRON-SCATTERING-IN-SOLIDS ..SOLID/ THEORY
64-PE-01 PERETTI, JOUANIN NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY ..POINT DEFECT
64-PE-02 PERETTI, JOUANIN NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING FORMULA/ CRYSTAL/ POINT DEFECT
65-AK-01 AKCASU, OSBORN NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ ANHARMONICITY
65-CO-02 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..METAL
65-CO-05 COWLEY NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ SCATTERING THEORY
65-EL-01 ELLIOTT, MARADUDIN NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ DISPERSION RELATION/ SOLID/ LATTICE DYNAMICS ..I
65-HA-01 HAHN NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ MOLECULAR CRYSTAL DYNAMICS/ SCATTERING FUNCTION
65-SJ-01 SJOELANDER, JOHNSON NEUTRON-SCATTERING-IN-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
65-SL-01 SLATER V/ SI/ CU/ NEUTRON-SCATTERING-IN-SOLIDS ..HARMONIC APPROXIMATION/ DEBYE APPROXIMATION
65-TO-02 TOYA NEUTRON-SCATTERING-IN-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..ELECTRON-
65-WA-01 WALLER NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ THEORY/ SOLID ..IMPURITY/ NEUTRON/ CRYSTAL/ MOESS
66-BR-01 BREDOV, KOTOV+ NEUTRON-SCATTERING-IN-SOLIDS ..FREQUENCY SPECTRUM/ SCATTERING THEORY
66-GI-03 GINZBURG, MALEEV NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY ..NEUTRON SCATTERING BY CONDUCTION ELECT
66-GL-01 GLAUBERMAN, RUVINSKII NEUTRON-SCATTERING-IN-SOLIDS ..MAGNETIC-SCATTERING ..THEORY/ SCATTERING BY EXCITONS
66-KR-01 KRIVOGLAZ, TIKHONOVA NEUTRON-SCATTERING-IN-SOLIDS ..THEORY
67-EL-03 ELLIOTT, TAYLOR NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE DYNAMICS ..IMPURITY EFFECT
67-EL-05 ELLIOTT, THORPE NEUTRON-SCATTERING-IN-SOLIDS ..THEORY ..PHONON/ MAGNON/ GROUP THEORY
67-EN-01 ENGLMAN, RUPPIN NEUTRON-SCATTERING-IN-SOLIDS ..LATTICE DYNAMICS
67-KR-01 KREBS, HOELZL NEUTRON-SCATTERING-IN-SOLIDS ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION ..METAL
67-LA-01 LAKATOS NEUTRON-SCATTERING-IN-SOLIDS/ AL ..LATTICE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION
67-MA-03 MARTIN NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID ..DEFECT SCATTERING
67-O-01 O'CONNOR NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ DYNAMICAL THEORY
68-BO-04 BOUTIN, YIP NEUTRON-SCATTERING-IN-SOLIDS/ NEUTRON-SCATTERING-IN-FLUIDS ..BOOK/ MOLECULAR DYNAMICS/ NEUTRON
68-BU-08 BUZANO, DEMICHELIS+ NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY/ GAS/ FREQUENCY DISTRIBUTION/ ..DIFFE
68-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS ..LECTURE NOTE/ CORRELATION FUNCTION
68-CO-02 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ CORRELATION FUNCTION
68-CO-10 COWLEY NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE DYNAMICS ..MAGNETIC FIELD
68-DE-01 DE-WETTE, RAHMAN NEUTRON-SCATTERING-IN-SOLIDS ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID ..ONE-PHONON/ COHERE
68-JA-03 JANIK NEUTRON-SCATTERING-IN-SOLIDS ..LATTICE DYNAMICS/ THEORY
68-KO-01 KOHLER NEUTRON-SCATTERING-IN-SOLIDS ..LATTICE DYNAMICS/ THEORY
68-KO-04 KOTHARI, GOYAL NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
68-MA-06 MARTIN NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY ..SCATTERING CROSS SECTION BY INTERSTITIAL ATO
69-BL-01 BLAESSER, PERETTI+ NEUTRON-SCATTERING-IN-SOLIDS/ V ..THEORY/ HYDROGEN/ INTERSTITIAL ..NUMERICALS
69-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS/ BA.TI.03/ K.H2.P.04/ NA.N.02 ..THEORY/ DIELECTRIC/ CRITICAL SCATT
69-CO-08 COWLEY, SVENSSON+ NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY
69-JA-01 JAISWAL, SHARMA NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ ONE-PHONON COHERENT CROSS SECTION ..DOUBLE-TIME GRE
69-KR-02 KRIVOGLAZ NEUTRON-SCATTERING-IN-SOLIDS ..BOOK
69-LA-01 LAKATOS, KRUMHANSL NEUTRON-SCATTERING-IN-SOLIDS ..POINT-DEFECTS/ THEORY
69-RU-01 RUIJGROK, DE-WETTE+ NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ IMPURITY EFFECT/ CUBIC CRYSTAL/ PHONON
70-AU-01 AUGST NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LOCALIZED VIBRATION/ NUMERICAL CALCULATION
70-TA-01 TANI NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE VIBRATION/ GENERALIZED THEORY OF NEUTRON SCATTER
71-DZ-01 DZYUB, KOCHMARSKY NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ MULTIPLE SCATTERING/ PERFECT CRYSTAL
71-LE-02 LENK, SOLBRIG THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ INTERSTITIAL IMPURITIES/ TWO-TIME GREE
71-MU-01 MURTAZIN NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE DYNAMICS/ SCATTERING LAW
71-PL-01 PLAKIDA
71-SO-03 SOLBRIG

71-ST-01 STAMENKOVIC NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ FERROELECTRICS
 71-ST-02 STAMENKOVIC NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ FERROELECTRICS
 71-ST-04 STILLER, SPRINGER NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ QUASI-ELASTIC SCATTERING/ RANDOM MOTION
 72-CO-02 COHEN NEUTRON-SCATTERING-IN-SOLIDS/ SCATTERING-BY-DEFECTS ..THEORY/ INELASTIC INCOHERENT SCATTERING F
 72-DZ-02 DZYUB, KOCHMARSKY NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ RESONANCE MODE/ FORCE CONSTANT CHANGE
 72-GI-02 GISSLER NEUTRON-SCATTERING-IN-SOLIDS ..HYDROGEN IN METAL
 72-IV-01 IVANOV, FISHMAN NEUTRON-SCATTERING-IN-SOLIDS/ SCATTERING-BY-DEFECTS ..THEORY/ LINEAR DEFECT
 72-PL-01 PLAKIDA NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONIC CRYSTAL/ ONE PHONON COHERENT CROSS SECTION
 72-PU-01 PUSTOVOIT THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS ..SEMICONDUCTOR/ SOUND-INSTABILITY CONDITION/ X-
 72-SO-02 SOLBRIG NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ MULTIPLE SCATTERING/ PERFECT CRYSTAL
 72-TA-04 TANI NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ NEUTRON SCATTERING BY PHONON/ PHASE TRANSITION
 73-AM-01 AMARAL, VINHAS+ RB/ NEUTRON-SCATTERING-IN-SOLIDS/ POLYDIMETHYLSILOXANE ..EXPERIMENT/ SOLID/ T-O-F/ SIGMA (E)
 73-CO-03 COPLEY NEUTRON-SCATTERING-IN-SOLIDS ..ANHAMONICITY/ DISPERSION CURVE
 73-GI-01 GISSLER, STUMP NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ DIFFUSION OF HYDROGEN IN METAL/ SCATTERING FUNCTION
 73-KI-01 KIM, NELKIN NEUTRON-SCATTERING-IN-SOLIDS ..DYNAMICAL STRUCTURE FACTOR/ DISORDERED SOLID/ THEORY
 73-SA-04 SARMA, TEWARI NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ SIGMA (E,E-PRIME,THETA)/ INCOHERENT APPROXIMAT
 73-SC-02 SCHUSTER NEUTRON-SCATTERING-IN-SOLIDS ..SUPERCONDUCTOR
 74-AX-01 AXE NEUTRON-SCATTERING-IN-SOLIDS ..INELASTIC COHERENT SCATTERING/ PHONON/ AMORPHOUS SOLIDS
 74-TA-01 TANI NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ STRUCTURAL PHASE TRANSITION/ MAGNETIC SYSTEM/ ANHARMONIC
 75-AG-01 AGRANOVICH, LALOV NEUTRON-SCATTERING-IN-SOLIDS ..NEUTRON-PHOTON INTERACTION/ CRYSTAL LATTICE
 75-CA-02 CARPENTER, PELIZZARI NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING LAW/ AMORPHOUS SOLID/ THEORY
 75-CA-03 CARPENTER, PELIZZARI NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING LAW/ THEORY
 75-EL-01 ELLIOTT, / KLEPPMANN NEUTRON-SCATTERING-IN-SOLIDS/ MAGNETIC-SCATTERING ..THEORY ..DIAMAGNETIC SCATTERING F

1. 3 NEUTRON-SCATTERING-IN-FLUIDS

41-SA-01 SACHS, TELLER NEUTRON-SCATTERING-IN-FLUIDS/ H2/ C.H4/ N.H3/ H2.O ..SCATTERING THEORY ..MOLECULAR GASES
 51-PL-01 PLACZEK, NIJBOER+ NEUTRON-SCATTERING-IN-FLUIDS/ HG ..THEORY/ SIGMA(E,E-PRIME,THETA)/ SOLID/ LIQUID/ SCATTE
 54-VA-01 VAN-HOVE NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
 54-WI-01 WICK NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ MOLECULAR DYNAMICS
 56-KO-01 KOTHARI, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID METAL/ QUASI-CRYSTALLINE MODEL
 56-ZE-01 ZEMACH, GLAUBER NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS/ SCATTERING THEORY
 57-KR-01 KRIEGER, NELKIN NEUTRON-SCATTERING-IN-FLUIDS/ C.H2/ H2.O ..SCATTERING THEORY ..MOLECULE
 58-VA-01 VAN-HOVE NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LIQUID/ GAS
 58-VI-01 VINEYARD NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID DYNAMICS ..CONVOLUTION APPROXIMATION
 59-DE-01 DE-GENNES NEUTRON-SCATTERING-IN-FLUIDS/ AR ..SCATTERING THEORY/ ..LIQUID DYNAMICS/ MOMENTS METHOD
 59-VO-01 VOLKIN, C. NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ GAS/ MOLECULAR ROTATIONS/ SCATTERING THEORY
 60-NE-02 NELKIN NEUTRON-SCATTERING-IN-FLUIDS/ H2.O ..THEORY/ MOLECULAR DYNAMICS ..DIFFERENTIAL AND TOTAL CROSS
 60-VI-01 VINEYARD NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
 61-CH-01 CHUDLEY, ELLIOTT NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS/ JUMP DIFFUSION MODEL
 61-DE-01 DE-GENNES NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ NORMAL LIQUIDS
 61-MO-01 MORALES-AMADO, OSBORN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
 61-RA-01 RAHMAN, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS/ PB ..THEORY ..LIQUID DYNAMICS
 61-RA-02 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ SCATTERING FUNCTION
 61-RA-03 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ MOLECULAR DYNAMICS/ C.H4
 62-CO-02 COLE NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ ELASTIC CROSS SECTION
 62-EG-01 EGELSTAFF NEUTRON-SCATTERING-IN-FLUIDS/ H2.O ..THEORY/ LIQUID ..LIQUID DYNAMICS
 62-GL-01 GLAUBER NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
 62-MC-02 MCMURRY NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ GAS/ SCATTERING FUNCTION
 62-PA-02 PARRY, TURNER HE/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERING LAW/ CORRELATION FUNCTION ..LI
 62-RA-01 RAHMAN, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS

62-RA-02 RAHMAN, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
 62-YI-01 YIP, OSBORN NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LIQUID
 63-AK-01 AKHIEZER, AKHIEZER+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID ..FERMI LIQUID/ ZERO-SOUND/ SPIN
 63-CO-06 COLE NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
 63-OS-01 OSALSKI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS/ QUASI-CRYSTALLINE MODEL
 63-SI-03 SINGWI, SJOELANDER+ NEUTRON-SCATTERING-IN-FLUIDS/ H2.O/ PB ..THEORY/ LIQUID/ FREQUENCY DISTRIBUTION/ SCATT
 64-EG-01 EGELSTAFF NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING LAW/ MEAN SQUARE DISPLACEMENT/ DIFFUSION PARAMETER/ L
 64-FU-01 FULINSKI NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY
 64-NE-01 NELKIN, GHATAK NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING FUNCTION ..DILUTE FLUID
 64-SI-01 SINGWI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID DYNAMICS ..COHERENT SCATTERING/ WIDTH FUNCTION/ @
 64-YI-01 YIP, NELKIN NEUTRON-SCATTERING-IN-FLUIDS ..CORRELATION FUNCTION/ LIQUID
 64-ZW-01 ZWANZIG NEUTRON-SCATTERING-IN-FLUIDS ..INCOHERENT APPROXIMATION/ SCATTERING THEORY/ SCATTERING LAW ..GE
 65-DE-01 DE-GENNES NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ QUASI-ELASTIC/ DILUTE POLYMER SOLUTIONS
 65-FU-01 FULINSKI NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY ..INCOHERENT SCATTERING FUNCTION
 65-GI-01 GIBBS, FERZIGER NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ MOLECULAR DYNAMICS ..KINETIC MODEL/ CORRELA
 65-NE-01 NELKIN, VAN-LEEUEWEN+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..KINETIC THEORY
 65-RA-01 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID
 65-SE-01 SEARS NEUTRON-SCATTERING-IN-FLUIDS/ AR ..LIQUID/ CORRELATION FUNCTION
 65-SI-01 SIGMAR NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ GAS ..SELF-CORRELATION FUNCTION
 65-SI-05 SINGWI, ANDERSON NEUTRON-SCATTERING-IN-FLUIDS ..KOHN EFFECT
 65-TU-03 TURCHIN, TARASOV NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY ..(ENGLISH TRANSLATION FOR THIS PAPER IS
 65-YI-01 YIP, RANGANATHAN NEUTRON-SCATTERING-IN-FLUIDS ..DILUTE GAS/ SCATTERING FUNCTION
 66-AR-01 ARDENTE, NARDELLI+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CORRELATION FUNCTION/ SCATTERING FUNCTION ..HIND
 66-AR-02 ARDENTE, NARDELLI+ NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS/ LIQUID/ THEORY/ FREQUENCY DISTRIBUTI
 66-DE-04 DESAI, NARDELLI+ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ DISPERSION. REL
 66-DO-03 DORNER NEUTRON-SCATTERING-IN-FLUIDS ..GENERAL-THEORIES
 66-IV-01 IVANOV NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS ..LINEAR MOLECULES
 66-IV-02 IVANOV NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
 66-KU-02 KURI, SAUER NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
 66-NA-01 NAKAHARA, TAKAHASHI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
 66-NA-02 NAKAHARA, TAKAHASHI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
 66-NE-01 NELKIN, / YIP NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING-LAW
 66-PU-01 PUROHIT NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING LAW/ THEORY/ LIQUID/ INCOHERENT APPROXIMATION ..@QUASI
 66-RA-01 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS/ AR ..LIQUID/ FREQUENCY DISTRIBUTION ..COMPUTER EXPERIMENT/ 85.5DK
 66-SE-01 SEARS NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ MOLECULAR ROTATIONS/ LIQUID/ THEORY ..HOMONUC
 66-SE-02 SEARS NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ MOLECULAR ROTATION/ LIQUID/ THEORY ..HOMONUC
 66-SE-03 SEARS NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LIQUID/ THEORY ..LAW OF CORRESPONDING STATES
 66-SI-03 SINHA, VENKATARAMAN NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..MOLECULAR DYNAMICS ..DIFFERENTIAL CROSS SECTIO
 66-VE-02 VENKATARAMAN REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID DYNAMICS
 67-DE-02 DESAI, YIP NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ THEORY ..SUM RULE
 67-EG-04 EGELSTAFF REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING FUNCTION/ TRANSPORT PROPERTIES
 67-FE-01 FERZIGER, FEINSTEIN NEUTRON-SCATTERING-IN-FLUIDS/ NA ..SCATTERING THEORY/ GAS/ LIQUID/
 67-FE-02 FERZIGER, FEINSTEIN NA/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID DYNAMICS
 67-LU-01 LURIE NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS/ GAS/ THEORY/ CROSS SECTION EVALUATION
 67-RA-01 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
 67-ST-02 STECKI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERING FUNCTION ..(GR,T)
 68-AG-02 AGRawal, DESAI+ NEUTRON-SCATTERING-IN-FLUIDS/ AR/ NA/ PB/ METHANE ..THEORY ..MODEL CALCULATION
 68-BO-04 BOUTIN, YIP NEUTRON-SCATTERING-IN-SOLIDS/ NEUTRON-SCATTERING-IN-FLUIDS ..BOOK/ MOLECULAR DYNAMICS/ NEUTRON
 68-BU-07 BUZANO, RASETTI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING BY MOLECULE
 68-CO-12 COWLEY NEUTRON-SCATTERING-IN-FLUIDS ..TIME-OF-FLIGHT/ COLLECTIVE MODE
 68-FR-02 FRANCHETTI THEORY-OF-FLUIDS/ NEUTRON-SCATTERING-IN-FLUIDS ..MONATOMIC LIQUIDS/ RADIAL DENSITY/ SCATTERING
 68-GL-03 GLASS, RICE NEUTRON-SCATTERING-IN-FLUIDS/ AR ..THEORY/ LIQUID/ CORRELATION FUNCTION ..COHERENT-SCATTERING

68-GL-04 GLASS, RICE NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CORRELATION FUNCTION/ DIFFERENTIAL SCATTERING CROSS SEC
68-JA-01 JACROT NEUTRON-SCATTERING-IN-FLUIDS ..PHASE TRANSITION/ CRITICAL SCATTERING/ LECTURES
68-JA-03 JANIK NEUTRON-SCATTERING-IN-SOLIDS/ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING BY MOLECULES/ LECTURES
68-LA-02 LARSSON NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID DYNAMICS/ REVIEW
68-LA-03 LARSSON NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ DIFFUSION PARAMETER ..ROTATIONAL DIFFUSION/ TRANSLATIONAL
68-NE-02 NELKIN, ORTOLEVA NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID ..KINETIC THEORY/ COLLECTIVE MODES
68-NO-02 NORTH, ENDERBY+ NEUTRON-SCATTERING-IN-FLUIDS ..STRUCTURE FACTOR/ LIQUID ..NEUTRON DIFFRACTION/ LIQUID META
68-NO-04 NOSSAL NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ THEORY
68-PU-02 PUROHIT NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ QUASI ELASTIC/ INCOHERENT
68-RA-01 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION
68-RI-01 RICHTER, VOSS AR/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LINEARIZED VLASOV-BOLTZMAN EQUATION
68-SC-07 SCHOFIELD NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING FUNCTION
68-SH-03 SHIMIZU NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ FREQUENCY DISTRIBUTION/ CORRELATION FUNCTION/ LIQUID/ MO
68-SI-02 SINGWI, SKOELD+ NEUTRON-SCATTERING-IN-FLUIDS/ AR ..THEORY/ LIQUID/ MOLECULAR DYNAMICS
68-SI-03 SINGWI NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID DYNAMICS/ LECTURE NOTE
68-SY-01 SYKES NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ SCATTERING LAW/ DISPERSION RELATION/ THEORY
69-AG-01 AGRAWAL, YIP NEUTRON-SCATTERING-IN-FLUIDS ..CROSS SECTION EVALUATION/ LIQUID ..MOLECULAR LIQUID
69-CH-03 CHUNG, YIP NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CORRELATION FUNCTION/ LIQUID
69-GY-01 GYORFFY, MARCH NEUTRON-SCATTERING-IN-FLUIDS/ THEORY-OF-FLUIDS ..INTERMEDIATE SCATTERING FUNCTION/ LIQUID
69-HU-01 HUBBARD, BEEBY NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID
69-NE-01 NELKIN NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ THEORY/ CORRELATION FUNCTION/ STATISTICAL MECHANICS ..RPA
69-NE-02 NELKIN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
69-OR-01 ORTOLEVA, NELKIN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID ..AUTO-CORRELATION FUNCTION/ SINGLE PARTICL
69-SC-01 SCHNEIDER, STOLL+ NEUTRON-SCATTERING-IN-FLUIDS ..VLASOV EQUATION1 THEORY ..TIME-DEPENDENT DIRECT CORRELATION FUNCT
70-LA-01 LADO NEUTRON-SCATTERING-IN-FLUIDS ..VLASOV EQUATION/ COLLECTIVE MODES
70-OR-01 ORTOLEVA, NELKIN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ VASOV EQUATION/ COLLECTIVE MODES
70-RA-06 RAO REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CURRENT-CORRELATION-FUNCTION ..GAUSSIAN-DECAY-MEM
71-AI-01 AILAWADI, RAHMAN+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING CROSS SECTION/ CLASSICAL LIQUID/ NON-
71-BA-01 BAIJAL, CHATURVEDI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING CROSS SECTION/ CLASSICAL LIQUID/ NON-
71-HA-02 HAMA, NAKAMURA NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ MOLECULE/ GAS/ ROTATIONAL CORRELATION/ CROS
71-KI-01 KIM, NELKIN NEUTRON-SCATTERING-IN-FLUIDS ..MORI-METHOD
71-LA-01 LARSSON NEUTRON-SCATTERING-IN-FLUIDS ..QUASI-ELASTIC-PEAK/ THEORY ..UNCORRELATED TRANSLATIONAL AND ROTA
71-NA-01 NAKAHARA NEUTRON-SCATTERING-IN-FLUIDS/ NA ..THEORY/ SCATTERING SIGMA/ LIQUID METAL
71-NI-06 NISHIGORI, SEKIYA NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING SIGMA/ MEAN-SQUARE DISPLACEMENT
71-NI-07 NISHIGORI, SEKIYA NEUTRON-SCATTERING-IN-FLUIDS/ H₂O ..THEORY/ SCATTERING SIGMA/ GAS
71-RO-04 ROSCISZEWSKI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ INCOHERENT/ QUASI-ELASTIC/ LIQUID CRYSTAL
72-KU-02 KUGLER NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CLASSICAL LIQUID/ INCOHERENT
72-SE-01 SEARS NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERING FUNCTION/ SCATTERING THEORY
73-BE-01 BEEBY NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LONG-WAVELENGTH LIMIT/ SCATTERING FUNCTION
73-BE-02 BELL, KOLLMAR+ NE/ NEUTRON-SCATTERING-IN-FLUIDS ..EXPERIMENT/ LIQUID/ NEUTRON SPECTRUM ..COHERENT SCATTERI
73-KE-03 KERR, SINGWI NE/ NEUTRON-SCATTERING-IN-FLUIDS ..QUANTUM EFFECT ..LARGE-Q-REGION
73-LA-04 LARSSON NEUTRON-SCATTERING-IN-FLUIDS ..ROTATIONAL MOTION/ MOLECULE
73-MI-02 MISAWA, FUKUSHIMA+ BR/ NEUTRON-SCATTERING-IN-FLUIDS ..EXPERIMENT/ LIQUID/ T-O-F
73-OL-01 OLIVEI NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ NEMATIC LIQUID CRYSTAL/ QUASI-ELASTIC PEAK
74-BA-01 BARKER, GASKELL NEUTRON-SCATTERING-IN-FLUIDS/ RB ..TRIPLE-PEAKS
74-CO-03 COPLEY, ROWE RB/ NEUTRON-SCATTERING-IN-FLUIDS ..DISPERSION CURVE/ ZERO SOUND/ LIQUID
74-PA-08 PARRINELLO, TOSI+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ BINARY-MIXTURES/ ISOTOPIC-EFFECTS
74-RA-02 RAHMAN RB/ NEUTRON-SCATTERING-IN-FLUIDS ..DISPERSION CURVE/ ZERO SOUND
74-SI-01 STAMENKOVIC NEUTRON-SCATTERING-IN-FLUIDS/ LIQUID-CRYSTAL ..THEORY/ SOLID/ SIGMA (THETA.E) ..LIQUID CRYSTAL

1. 4 THEORY-OF-SOLIDS

58-SJ-01 SJOELANDER THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..SCATTERING CROSS SECTION
63-BA-04 BARRON, LEADBETTER+ THEORY-OF-SOLIDS ..DEBYE-WALLER FACTOR/ THEORY
63-CO-02 COCHRAN, COWLEY THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
63-SQ-02 SQUIRES THEORY-OF-SOLIDS ..INTERATOMIC FORCE CONSTANTS/ DISPERSION RELATION/ THEORY/ SOLID ..CUBIC CRYSTALS
64-BA-01 BAYM THEORY-OF-SOLIDS ..SCATTERING LAW
65-AK-02 AKCASU, OSBORN THEORY-OF-SOLIDS/ SCATTERING-THEORIES ..DAMPING THEORY/ SCATTERING CROSS SECTION/ ANHARMONIC
65-CH-01 CHAMPIER, TOUSSAINT THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
65-CO-01 COCHRAN THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID
65-CO-04 COWLEY THEORY-OF-SOLIDS ..ANHARMONICITY/ THEORY ..ALKALI HALIDE
65-CZ-01 CZACHOR THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ DISPERSION RELATION/ THEORY/ SOLID ..HEXAGONAL CLOSED PACK
65-DI-01 DICK THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
65-HA-05 HARRISON THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
65-JO-01 JOSHI, SHARMA THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
65-KA-01 KAGAN, ZHERNOV THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
65-LA-03 LAX THEORY-OF-SOLIDS ..THEORY
65-LE-01 LEHMAN, WOLFRAM+ THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
65-MA-03 MARADUDIN THEORY-OF-SOLIDS ..ANHARMONICITY/ THEORY ..HELMHOLTZ FREE ENERGY
65-PA-04 PATHAK THEORY-OF-SOLIDS ..ANHARMONICITY/ DISPERSION RELATION/ THEORY ..GREEN FUNCTION
65-RO-03 ROSENSTOCK THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
65-SI-02 SINGH, MANI+ THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..ALKALI METAL
65-SR-01 SRINIVASAN, RAO THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
65-SR-02 SRIVASTAVA THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..ELECTRON-PHONON INTERACTION
65-SU-02 SUNAKAWA, / FUKUI THEORY-OF-SOLIDS ..PSEUDOPOTENTIAL
66-BL-01 BLANK, KANER THEORY-OF-SOLIDS ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS/ SOLID ..METAL
66-CO-03 COWLEY, COWLEY K, BR/ NA, I/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY/ PHONON DISPERSION
66-CZ-01 CZACHOR THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY/ SOLID/ DISPERSION RELATION ..METAL
66-DE-02 DELTOUR THEORY-OF-SOLIDS ..BORN-VON KARMAN MODEL/ FREQUENCY SPECTRUM/ THEORY ..MOMENT METHOD/ MONTE CARLO
66-GI-01 GILAT, RAUBENHEIMER THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ SOLID/ THEORY ..EXTRAPOLATION METHOD
66-MA-01 MAHAN THEORY-OF-SOLIDS ..THEORY ..ELECTRON-PHONON INTERACTION
66-MI-01 MINTS THEORY-OF-SOLIDS ..SOLID/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..DISORDERED LINEAR CHAIN
66-NU-01 NUSIMOVICI, BIRMAN THEORY-OF-SOLIDS ..DISPERSION RELATION/ BORN-VON KARMAN MODEL/ THEORY ..SUM RULE/ WURTZ
66-PA-05 PAYTON THEORY-OF-SOLIDS ..HARMONIC APPROXIMATION/ THEORY
66-PA-06 PAYTON, VISSCHER THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ THEORY ..DISORDERED HARMONIC
66-RA-05 RASHBA THEORY-OF-SOLIDS ..THEORY/ MOLECULAR DYNAMICS
66-SA-04 SAUER THEORY-OF-SOLIDS ..MOLECULAR DYNAMICS/ SOLID
66-SL-01 SLATER THEORY-OF-SOLIDS ..THEORY ..ELECTRON BAND/ GREEN FUNCTION
67-BA-03 BARKER-JR, VERLESER THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
67-DE-01 DEPLANTE THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION ..CUBIC METAL/ KOHN EFFECT
67-GI-02 GILAT CR/ FE/ W/ THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRA/ BCC METALS
67-IS-01 ISHIKAWA THEORY-OF-SOLIDS ..ANHARMONIC CRYSTAL/ PHONON SHIFT AND DAMPING/ QUASI-HARMONIC APPROXIMATION
67-LO-01 LORD-JR THEORY-OF-SOLIDS ..MAGNON-PHONON COUPLING
67-MA-01 MARSTON, DICK THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
67-OV-01 OVERTON-JR, SCHUCH THEORY-OF-SOLIDS ..THEORY
67-PA-05 PATHAK, DEO THEORY-OF-SOLIDS ..SOLID/ LATTICE DYNAMICS ..ANHARMONIC EFFECT
67-TA-02 TASUMI, ZERBI THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ RANDOM POLYMER
67-TA-03 TAYLOR THEORY-OF-SOLIDS ..CRYSTAL VIBRATION/ IMPERFECT CRYSTALS WITH DEFECTS
67-WA-01 WAGNER THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS
68-CH-02 CHEVEAU THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..METAL
68-CO-07 COHEN, MARTIN+ THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..FORCE CONSTANTS
68-DE-03 DELTOUR THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID ..CONTINUED FRACTION/ LINEAR CHAIN

68-HA-04 HARTMANN THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..ALLOY/ IMPURITY EFFECT/ DOUB
68-HA-05 HAUTECLER, NEVE-DEMEVERGNIES THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..METAL/ HEXAGONAL STRUCTURE
68-HO-01 HO THEORY-OF-SOLIDS/ NA/ K ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS
68-IY-01 IYENGAR THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..LECTURE NOTE
68-KA-01 KAGAN, BROVMAN THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..METAL/ ELECTRON CONTRIBUTION
68-KO-03 KOTHARI, SINGAL THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS
68-LE-02 LEIBFRIED THEORY-OF-SOLIDS ..LECTURE NOTE
68-MA-01 MANNHEIM THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
68-SI-04 SINHA THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..METAL
68-WA-01 WAGNER THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS
69-AU-01 AUGST, ZHERNOV THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ IMPURITY EFFECT
69-CA-02 CARBOTTE, DYNES+ THEORY-OF-SOLIDS ..FORCE CONSTANTS ARE TAKEN FROM EXPERIMENTAL DISPERSION CURVES, ELECTRO
69-GA-01 GARCIA-COLIN, KOO THEORY-OF-SOLIDS ..CRITICAL BEHAVIOUR/ SCALING LAW
69-GI-01 GILAT THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..ACCIDENTAL DEGENERACIES/ CUBIC CRYSTAL
69-LE-04 LEATH, GOODMAN THEORY-OF-SOLIDS ..FREQUENCY SPECTRUM/ THEORY/ GREEN FUNCTION
69-MA-02 MARADUDIN, OITMAA THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..IMPURITY VIBRATION
69-OI-01 OITMAA, MARADUDIN THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ IMPERFECT CRYSTAL ..CRYSTAL WITH EXTENDED POINT DEF
69-PL-01 PLAKIDA, SIKLOS THEORY-OF-SOLIDS ..LINEAR CHAIN/ ANHARMONIC LATTICE/ FREQUENCY AND DAMPING
69-PL-02 PLAKIDA, SIKLOS THEORY-OF-SOLIDS ..ANHARMONIC CRYSTAL/ DOUBLE-TIME GREEN FUNCTION/ FREQUENCY AND DAMPING
69-RA-01 RANNINGER THEORY-OF-SOLIDS ..CORRELATION FUNCTION/ SECOND SOUND ..CRYSTAL LATTICE
69-SH-01 SHARAN, BAJPAI THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FORCE CONSTANT/ ELASTIC CONSTANT ..BODY CENTRED TETRAG
69-SI-02 SINHA THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ SOLID/ THEORY
69-TO-02 TONG, MARADUDIN THEORY-OF-SOLIDS ..THEORY
69-WU-01 WU, TAYLOR THEORY-OF-SOLIDS ..THEORY/ FREQUENCY SPECTRUM/ CHAIN
70-AC-01 ACHAR, BARSH THEORY-OF-SOLIDS ..THEORY ..DEFECT/ LOCALIZED MODE
70-BO-02 BOCCHIERI, SCOTTI+ THEORY-OF-SOLIDS ..THEORY ..ONE-DIMENSIONAL LATTICE/ ERGODICITY/ NUMERICAL STUDY/ CLASS
70-ID-01 IDA THEORY-OF-SOLIDS ..ANHARMONICITY/ HEAT CAPACITY
70-JO-01 JOHNSON THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
70-KE-04 KERR, SJOELANDER THEORY-OF-SOLIDS ..LATTICE DYNAMICS
70-KU-05 KUSHWAHA, RAJPUT THEORY-OF-SOLIDS ..LATTICE DYNAMICS
70-PL-01 PLAKIDA, SIKLOS THEORY-OF-SOLIDS ..ANHARMONIC THREE DIMENSIONAL LATTICE/ F.C.C. LATTICE
70-RI-02 RIEDER THEORY-OF-SOLIDS ..THEORY/ LIGHT IMPURITY MODE/ ESTIMATION OF FORCE CONSTANT CHANGE
70-RI-03 RIEDER THEORY-OF-SOLIDS ..THEORY/ LIGHT IMPURITY MODE/ ESTIMATION OF FORCE CONSTANT CHANGE
70-SH-01 SHAPIRO THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ THEORY ..LATTICE DYNAMICAL CALCULATION OF LINDEMANN
70-SH-02 SHAPIRO, KNOPOFF THEORY-OF-SOLIDS ..THEORY
70-SI-01 SIKLOS THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY ..LINEAR CHAIN/ PSEUDOHARMONIC APPROXIMATION/ MORSE PO
70-SI-02 SIKLOS THEORY-OF-SOLIDS ..THEORY/ SOLID/ ANHARMONICITY ..PSEUDOHARMONIC APPROXIMATION/ MORSE POTENTIAL
70-SI-03 SINGH, JOSHI THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ ME
70-SL-01 SLAGGIE THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ SOLID
70-TA-02 TAYLOR, WU THEORY-OF-SOLIDS ..GLASS/ DISORDERED LATTICE/ FREQUENCY SPECTRUM ..AMORPHOUS
70-VE-01 VENKATARAMAN, SAHNI THEORY-OF-SOLIDS ..SOLIDS/ REVIEW-ARTICLES ..FORMAL THEORY/ MOLECULAR CRYSTAL/ COMPLEX IONIC CR
70-WE-03 WERTHAMER THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ ANHARMONICS ..PRESSURE/ ELASTIC CONSTANT/ SPECIFIC HEAT
71-BU-02 BURSTEIN, MARADUDIN+ THEORY-OF-SOLIDS ..LYDDANE-SACHS-TELLER RELATIONS/ FINITE WAVE VECTOR
71-CH-02 CHEN, STEELE THEORY-OF-SOLIDS ..THEORY/ MOLECULAR DYNAMICS/ LINIER MOLECULE
71-HA-01 HALL, MATTEW THEORY-OF-SOLIDS ..LATTICE VIBRATION/ ORDER-DISORDER TRANSFORMATION/ BINARY ALLOY
71-HU-01 HUELLER THEORY-OF-SOLIDS/ ARGON/ KRYPTON/ XENON ..CAUCHY-RELATION
71-KL-01 KLEIN, BARKER+ THEORY-OF-SOLIDS/ AR ..4DK/ 40DK/ 77DK
71-KL-02 KLEIN THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRUM/ BETA-TUNGSTEN COMPOUNDS
71-KU-04 KUSHWAHA, SINGH THEORY-OF-SOLIDS/ CS ..THEORY/ PHONON DISPERSION
71-LE-01 LEIGH, SZIGETI+ THEORY-OF-SOLIDS ..THEORY/ FORCE CONSTANT/ PHONON FREQUENCY
71-MU-01 MURTAZIN THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ INTERSTITIAL IMPURITIES/ TWO-TIME GREE
71-NA-02 NAMJOSHI, MITRA+ THEORY-OF-SOLIDS/ NA, F/ NA, CL ..LATTICE DYNAMICS/ DISPERSION RELATION/ RIGID ION MODEL US

71-PI-01	PICK	THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MICROSCOPIC THEORY/ SHELL MODEL/ INSULATORS
71-PL-02	PLAKIDA	THEORY-OF-SOLIDS ..THEORY/ ANHARMONIC METAL/ PHONON SPECTRUM
71-RA-02	RAICH, ETTERS	THEORY-OF-SOLIDS ..THEORY/ FREQUENCY DISTRIBUTION FUNCTION ..ORIENTATIONAL ORDER DISORDER TR
71-SI-03	SINHA, GUPTA	THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MICROSCOPIC APPROACH
71-SZ-01	SZIGETI	THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FORCE CONSTANTS
71-TA-02	TAKENO, GODA	THEORY-OF-FLUIDS/ THEORY-OF-SOLIDS ..THEORY/ DISORDERED SYSTEM/ AMORPHOUS SOLID/ CLASSICAL LI
71-TO-02	TOWERS	THEORY-OF-SOLIDS ..LATTICE VIBRATION/ ALLOYS/ SHORT-RANGE ORDER
71-WA-04	WARSHEL	THEORY-OF-SOLIDS ..LATTICE VIBRATION/ MOLECULAR CRYSTAL/ ANHARMONICITY
72-AL-03	ALLEN	THEORY-OF-SOLIDS ..PHONON WIDTHS/ ELECTRON-PHONON INTERACTION/ SUPERCONDUCTIVITY
72-CO-05	COWLEY	THEORY-OF-SOLIDS ..SCATTERING-THEORIES ..THEORY/ PHONON/ ALLOYS/ ORDER-DISORDER STATE
72-DZ-01	DZYUB, KOCHMARSKY	THEORY-OF-SOLIDS ..PHONON DISPERSION/ WITH SUBSTITUTIONA IMPURITIES
72-HA-01	HANKE, BILZ	THEORY-OF-SOLIDS/ REVIEW-ARTICLES ..MICROSCOPIC THEORY/ PHONON/ METAL/ REVIEW
72-HO-02	HORNER	THEORY-OF-SOLIDS/ HE/ NE ..QUANTUM CRYSTALS/ PHONON SPECTRUM
72-HO-04	HOROVITZ, GUTFREUND+	THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRUM/ EFFECT OF A PLANAR FERMI SURFACE
72-IS-01	ISHIBASHI, TAKAGI	THEORY-OF-SOLIDS ..COMPUTER EXPERIMENT/ DYNAMICS/ LINEAR CHAIN/ DOUBLE MINIMUM
72-JA-02	JACOBI	THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..TRANSLATIONAL AND LIBRATIONAL MODES
72-KA-06	KANAMORI	THEORY-OF-SOLIDS ..JAHN-TELLER EFFECT/ PHONON
72-LI-01	LITZMAN, BARTUSEK+	THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ DEFECT/ LONG RANGE INTERACTION/ GREEN FUNCTION
72-NA-02	NAKAMURA, YONEZAWA	THEORY-OF-SOLIDS ..THEORY/ DISORDERED SYSTEM/ PHONON FREQUENCY SPECTRA
72-NA-04	NAMAIZAWA	THEORY-OF-SOLIDS ..THEORY/ QUANTUM LATTICE DYNAMICS/ PHONON DISPERSION
72-PA-04	PASZKIEWICZ	THEORY-OF-SOLIDS ..THEORY/ SOLID/ ANHARMONICITY ..ELASTIC CONSTANTS
72-PA-06	PAWLEY	THEORY-OF-SOLIDS ..THEORY/ MOLECULAR LATTICE DYNAMICS/ ANALYTIC FORMULATION/ PAIR POTENTIAL
72-PU-01	PUSTOVOIT	THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS ..SEMICONDUCTOR/ SOUND-INSTABILITY CONDITION/ X-
72-RU-02	RUVALDS, TUETTO+	THEORY-OF-SOLIDS ..THEORY/ RESONANCE STATE OF TWO PHONONS
72-SH-01	SHAM	THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ ELASTIC CONSTANT ..METAL
72-SH-02	SHAM	NB3,SN/ THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
72-SH-05	SHAWYER, DEAN	THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY SPECTRUM/ BORN-VON KARMAN MODE
72-SI-05	SINGH	THEORY-OF-SOLIDS ..THEORY/SHELL MODEL
72-TA-02	TAKENO, GODA	THEORY-OF-SOLIDS/ THEORY-OF-FLUIDS/ HE ..THEORY/ PHONON-LIKE EXCITATION
72-TO-01	TOKUNAGA	THEORY-OF-SOLIDS ..LATTICE VIBRATION/ DIPOLE INTERACTION/ PEROVSKITE STRUCTURE
72-TR-01	TRICKEY, WITRIOL+	THEORY-OF-SOLIDS ..THEORY/ SELF-CONSISTENT HARMONIC TREATMENT/ HARD-CORE QUANTUM CRYSTAL
72-WA-01	WAEBER	GA/ THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..METAL/ ORTHORHOMBIC
72-YA-02	YAMADA	THEORY-OF-SOLIDS ..SPIN-PHONON INTERACTION/ LATTICE INSTABILITY
73-AS-01	ASKAR	THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ ANHARMONICITY ..MONOATOMIC CHAI
73-BO-01	BOETTGER	THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..DISORDERED LATTICE/ DYSON E0
73-CO-01	COCHRAN	THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
73-CZ-01	CZACHOR	THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..SHELL MODEL
73-GE-01	GERVAIS	THEORY-OF-SOLIDS ..QUARTZ
73-HO-02	HONG, KOPELMAN	THEORY-OF-SOLIDS ..COHERENT POTENTIAL APPROXIMATION/ DISORDERED MOLECULAR SOLIDS/ INTERACTI
73-LI-01	LITZMAN, ROZSA	THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..POINT DEFECT/ GREEN'S FUNCTION/ LOCAL MODE
73-LO-03	LOLY	THEORY-OF-SOLIDS ..THEORY/ SOLID/ FREQUENCY SPECTRUM
73-ME-01	MEIER	NB3,SN/ SR,TI,03/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY ..SINGULAR WIDTH GAMMA/ QUASI-PARTIC
73-PO-01	POHL, LOVE+	THEORY-OF-SOLIDS ..SPECIFIC HEAT/ NON-CRYSTALLINE
73-SC-01	SCHMID, HOELZL	THEORY-OF-SOLIDS ..LOCALIZED MODE
73-SO-02	SOMA	THEORY-OF-SOLIDS ..METAL/ ELASTIC CONSTANT/ STATIC AND DYNAMICAL
73-WA-01	WARREN, WORLTON	THEORY-OF-SOLIDS ..SYMMETRY PROPERTY/ COMPUTER ANALYSIS/ 23 CRYSTALS
74-AL-02	ALTSHULER, VEKILOU+	THEORY-OF-SOLIDS/ ZN,S ..PHONON DISPERSION/ RIGID ION MODEL
74-BA-02	BARRON, GIBBONS	THEORY-OF-SOLIDS ..THERMAL-EXPANSION ..QUASIHARMONIC-LATTICE
74-BA-03	BARRON, GIBBONS	THEORY-OF-SOLIDS ..DISPERSION-CURVES ..QUASIHARMONIC-LATTICE/
74-BA-04	BARRON, GIBBONS	THEORY-OF-SOLIDS ..DISPERSION-CURVES ..QUASIHARMONIC-LATTICE
74-BO-02	BORSTNIK, AZMAN	THEORY-OF-SOLIDS ..FREQUENCY SPECTRA/ HYDROGEN BOND/ DISORDERED CHAIN
74-CH-04	CHEVYCHELOV, LIFSHITS	THEORY-OF-SOLIDS ..POINT-DEFECTS/ LATTICE-DISTORTION/ VACANCY.

74-CO-01 COHEN, KLEIN THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY SPECTRUM ..IMPURITY/ METAL/ RAR
74-GR-03 GRUNEWALD, SHARNBERG THEORY-OF-SOLIDS ..THEORY/ LIFE TIME/ ..ELECTRON-PHONON INTERACTION/ IMPURITIES/ PHON
74-HO-02 HOROVITZ, WEGER THEORY-OF-SOLIDS ..PHONON DISPERSION/ CHAIN CRYSTAL
74-IO-01 IOSILEVSKI THEORY-OF-SOLIDS ..SPECTRAL DISTRIBUTION/ PLATE/ EFFECT OF SURFACE
74-JA-01 JAIN, JAIN THEORY-OF-SOLIDS ..THEORY/ PSEUDOPOTENTIAL FORM FACTOR/ SIMPLE METALS
74-JO-01 JOHNSON THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ BOND CHARGE MODEL
74-JO-02 JOHNSON, MOORE THEORY-OF-SOLIDS/ DIAMOND/ SI ..PHONON DISPERSION/ BOND CHARGE MODEL
74-KU-01 KUENER THEORY-OF-SOLIDS ..LATTICE DYNAMICS
74-LU-02 LUTY, PAWLEY THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..SHELL MODEL
74-MI-01 MITSKEVICH THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..NON-CONDUCTING CRYSTAL/ DENSITY MATRIX
74-PA-01 PAINTER, HARTMAN THEORY-OF-SOLIDS ..VIBRATIONAL SOECTRA
74-PA-09 PAWLEY THEORY-OF-SOLIDS ..PHONON SYMMETRY/ SPACE GROUP
74-SC-03 SCHOFIELD THEORY-OF-FLUIDS/ THEORY-OF-SOLIDS ..THEORY/ CORRELATION FUNCTION
74-SE-01 SEN, HARTMANN THEORY-OF-SOLIDS ..THEORY/ PHONON/ MASS-DISORDERED SYSTEM/ COHERENT-POTENTIAL/ ONE-DIMENSION
74-TE-02 TEWARY THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..GREEN FUNCTION/ SKREW DISLOCATION
74-TR-01 TRIPATHI, BEHERA THEORY-OF-SOLIDS ..GREEN-FUNCTION
75-EG-01 EGGARTER THEORY-OF-SOLIDS ..EXACT FORMALISM/ PHONON FREQUENCY/ MIXED CHAIN
75-HE-02 HEIMENDAH, THORPE THEORY-OF-SOLIDS ..PHONON SPECTRA/ METALLIC GLASSES
75-HO-01 HORIGUCHI, MORITA THEORY-OF-SOLIDS ..THEORY/ SOLID/ GREEN'S FUNCTION ..CUBIC LATTICE
75-MA-02 MARTIN THEORY-OF-SOLIDS ..ELASTIC CONSTANT
75-MA-03 MARTIN THEORY-OF-SOLIDS ..INNER ELASTIC CONSTANTS/ NONCENTROSYMMETRIC CRYSTALS
75-MA-04 MARTIN THEORY-OF-SOLIDS ..ELASTIC CONSTANT/ DIAMOND STRUCTURE
75-OH-01 OHASHI, OHASHI+ THEORY-OF-SOLIDS/ CU-AU ..DILUTE ALLOY/ PHONON SHIFT AND WIDTH
75-SA-01 SAHOO, VENKATARAMAN THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MOLECULAR IMPURITY
75-SR-03 SRIVASTAVA THEORY-OF-SOLIDS ..ANHARMONIC PHONON/ COLLISION OPERATOR
75-TA-01 TAKAHASHI THEORY-OF-SOLIDS ..COUPLED SYSTEM/ DAMPING
75-WE-02 WESTERA, COWLEY THEORY-OF-SOLIDS ..ANHARMONIC SOLID/ CELL-CLUSTER EXPANSION/ THERMODYNAMIC PROPEETIES

1. 5 THEORY-OF-FLUIDS

59-SW-01 SWALIN THEORY-OF-FLUIDS ..DIFFUSION/ FLUCTUATION THEORY
60-VI-02 VINEYARD THEORY-OF-FLUIDS ..KINETIC THEORY/ TWO TIMES/ TWO BODYS
61-RI-01 RICE, ALLNATT THEORY-OF-FLUIDS ..LIQUID DYNAMICS
63-DE-01 DE-BAR THEORY-OF-FLUIDS ..THEORY/ CORRELATION FUNCTION/ CRYSTAL/ LIQUID
63-KA-01 KADANOFF, MARTIN THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION
64-NO-01 NOSSAL THEORY-OF-FLUIDS ..THEORY/ LIQUID
65-WE-01 WEINSTOCK THEORY-OF-FLUIDS ..AUTOCORRELATION FUNCTION
66-DE-06 DESAI THEORY-OF-FLUIDS ..GAS/ CORRELATION FUNCTION/ THEORY ..NON-GAUSSIAN CORRECTION/ MONATOMIC GAS
66-EF-01 EFROS THEORY-OF-FLUIDS ..THEORY/ LIQUID ..SELF-DIFFUSION
66-ZW-01 ZWANZIG THEORY-OF-FLUIDS ..STATISTICAL MECHANICS/ GAS/ LIQUID/ SOLID/ THEORY ..LIOUVILLE OPERATOR
67-BE-02 BERNE, FRISCH THEORY-OF-FLUIDS ..LIQUID/ THEORY ..HIGH-FREQUENCY RESPONSE
67-BO-01 BOON, RICE AR/ THEORY-OF-FLUIDS ..THEORY/ LIQUID ..MOMENTUM AUTO-CORRELATION FUNCTION
67-LE-01 LEBOWITZ, PERCUS THEORY-OF-FLUIDS ..LIQUID DYNAMICS
67-SC-02 SCHCROFT, MARCH THEORY-OF-FLUIDS/ AR ..THEORY
67-SC-03 SCHNEIDER, STOLL+ THEORY-OF-FLUIDS ..COLLECTIVE EXCITATION/ LIQUID METAL/ DISPERSION CURVE
67-SI-02 SINGWI, TOSI THEORY-OF-FLUIDS/ ARGON ..THEORY/ LIQUID ..VELOCITY AUTO-CORRELATION
68-BR-02 BROWN, MARCH THEORY-OF-FLUIDS ..CORRELATION FUNCTION/ FREQUENCY SPECTRA/ MASS EFFECT/ ALLOYS
68-DA-02 DAMLE, SJOELANDER+ THEORY-OF-FLUIDS ..LIQUID/ FREQUENCY SPECTRUM/ THEORY ..ITINERANT-OSCILLATOR-MODEL
68-EN-01 ENDERBY, NORTH THEORY-OF-FLUIDS/ NA-K ..STRUCTURE FACTOR/ ALLOY LIQUID/ PERCUS-YEVICK
68-FO-01 FORSTER, MARTIN THEORY-OF-FLUIDS ..LIQUID/ THEORY/ CORRELATION FUNCTION ..FOURTH-FREQUENCY-MOMENT/ SUM RUL
68-FO-02 FORSTER, MARTIN+ THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION ..ARGON/ VISCOSITY/ MOMENT METHOD

68-FR-02 FRANCHETTI THEORY-OF-FLUIDS/ NEUTRON-SCATTERING-IN-FLUIDS ..MONATOMIC LIQUIDS/ RADIAL DENSITY/ SCATTERING
68-GL-05 GLASS, RICE THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION/ THEORY/ NEUTRON SCATTERING ..ONE-PARTICLE AND
68-GR-03 GROSS, WISNIEWSKY THEORY-OF-FLUIDS ..KINETIC EQUATION/ HARD SPHERE GAS
68-KE-01 KERR THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION/ THEORY
68-LE-01 LEBOWITZ, PERCUS+ THEORY-OF-FLUIDS ..THEORY ..TIME DEPENDENT DISTRIBUTION FUNCTION/ ONE-DIMENSIONAL SYSTEM
68-MA-03 MARCH THEORY-OF-FLUIDS ..LECTURE NOTE/ SCATTERING FUNCTION
68-PE-01 PERCUS, YEVICK THEORY-OF-FLUIDS ..THEORY/ DIRECT CORRELATION FUNCTION
68-RI-03 RICHTER, VOSS THEORY-OF-FLUIDS ..THEORY/ COLLECTIVE MOTION/ CLASSICAL SYSTEM/ DISPERSION/ VLASOV EQUATION
68-ST-02 STECKI, WOJNAR THEORY-OF-FLUIDS ..GAS/ THEORY/ CORRELATION FUNCTION
69-GY-01 GYORFFY, MARCH NEUTRON-SCATTERING-IN-FLUIDS/ THEORY-OF-FLUIDS ..INTERMEDIATE SCATTERING FUNCTION/ LIQUID
69-LE-05 LEBOWITZ, PERCUS+ THEORY-OF-FLUIDS ..THEORY/ CORRELATION FUNCTION
69-RI-01 RICHTER, VOSS THEORY-OF-FLUIDS/ SCATTERING-THEORIES ..THEORY/ SCATTERING LAW/ VLASOV MODEL
70-AI-01 AICAWADI THEORY-OF-FLUIDS ..THEORY/ COLLECTIVE MODE/ LIFETIME/ MODE-MODE INTERACTION
70-AK-01 AKCASU, DANIELS THEORY-OF-FLUIDS ..THEORY/ LIQUID ..GENERALIZED LANGEVIN EQUATION/ CURRENT-CURRENT CORRELA
70-CO-05 CORNGOLD, DUDERSTADT THEORY-OF-FLUIDS ..CORRELATION FUNCTION
70-FO-01 FORSTER, MARTIN THEORY-OF-FLUIDS ..KINETIC THEORY
70-HA-03 HARP, BERNE THEORY-OF-FLUIDS ..THEORY/ LIQUID/ MOLECULAR DYNAMICS ..MEMORY FUNCTIONS/ TIME CORRELATION FUN
70-KA-05 KAWASAKI THEORY-OF-FLUIDS ..CORRELATION FUNCTION,
70-KN-01 KNOPOFF, SHAPIRO THEORY-OF-FLUIDS ..THEORY
70-PA-05 PATHAK, SINGWI THEORY-OF-FLUIDS/ ARGON ..THEORY/ LIQUID/ SCATTERIN LAW/ GAUSSIAN APPROXIMATION
70-RO-01 ROSS THEORY-OF-FLUIDS ..STRUCTURE FACTOR/ SIGMA(THETA,E) ..COMPRESSIBILITY/ LIQUID METAL
70-RO-02 ROTHSCHILD THEORY-OF-FLUIDS ..LIQUID/ THEORY
70-TO-01 TONG, RASHMI+ THEORY-OF-FLUIDS ..GENERAL THEORY
70-ZW-01 ZWANZIG, BIXON THEORY-OF-FLUIDS ..CURRELATION FUNCTION/ THEORY/ LIQUID
71-BA-06 BARKER, FISHER+ THEORY-OF-FLUIDS/ AR ..COMPUTER-SIMULATION/ MONTE-CARLO ..THREE-BODY-INTERACTION
71-CH-03 CHIHARA, SASAKI+ THEORY-OF-FLUIDS ..THEORY/ SPACE-TIME CORRELATION FUNCTION/ VLASOV-BOLTZMANN EQUATION
71-DE-04 DESAI THEORY-OF-FLUIDS ..THEORY/ CLASSICAL LIQUID/ SINGLE-PARTICLE MOTION
71-FI-01 FISHER THEORY-OF-FLUIDS ..VELOCITY CORRELATION
71-LO-02 LOVESEY THEORY-OF-FLUIDS/ AR ..TRIPLE-PEAK-STRUCTURE
71-LO-03 LOVESEY THEORY-OF-FLUIDS ..LIQUID/ DENSITY RESPONS FUNCTION
71-MO-01 MOSCINSKI, NAWALANY THEORY-OF-FLUIDS/ CU
71-NO-01 NOLTING THEORY-OF-FLUIDS/ AL/ AR ..THEORY/ VAN-HOVE-CORRELATION-FUNCTION
71-O--01 O'REILLY THEORY-OF-FLUIDS ..VELOCITY-AUTOCORRELATION/ SELF-DIFFUSION ..QUASILATTICE-MODEL
71-PR-06 PRUEITT THEORY-OF-FLUIDS ..HYDRODYNAMICS
71-TA-01 TAKAHASHI THEORY-OF-FLUIDS ..THEORY/ LIQUID/ CORRELATION FUNCTION/ SCATTERING LAW ..LIQUID METAL/ TWO TIM
71-TA-02 TAKENO, GODA THEORY-OF-FLUIDS/ THEORY-OF-SOLIDS ..THEORY/ DISORDERED SYSTEM/ AMORPHOUS SOLID/ CLASSICAL LI
72-AK-01 AKCASU, LINNEBUR THEORY-OF-FLUIDS ..MODELLED KINETIC EQUATION/ TWO DAMPING CONSTANT
72-BA-06 BARKER, GASKELL ARGON/ THEORY-OF-FLUIDS ..CORRELATION FUNCTION
72-CH-01 CHAY, FRANK H2-O/ THEORY-OF-FLUIDS ..CORRELATION FUNCTION
72-CH-02 CHIHARA THEORY-OF-FLUIDS ..THEORY/ QUANTAL SPACE-TIME CORRELATION/ HARTREE APPROXIMATION
72-CO-04 CORNGOLD THEORY-OF-FLUIDS ..THEORY/ AUTOCORRELATION/ MEMORY FUNCTION
72-DU-02 DUFTY THEORY-OF-FLUIDS ..CORRELATION FUNCTION
72-EG-01 EGELSTAFF THEORY-OF-FLUIDS/ SCATTERING-THEORIES ..TIME DEPENDENT TRIPLET FUNCTION/ PRESSURE DERIVATIVE OF
72-GO-01 GODA THEORY-OF-FLUIDS ..THEORY/ PHONON DISPERSION/ LIQUID/ LAW OF CORRESPONDING STATES
72-HA-03 HASSAN, LADO THEORY-OF-FLUIDS ..DIFFUSION CONSTANT
72-KA-09 KATZ, RICE THEORY-OF-FLUIDS ..DENSITY OF LOCALIZED STATE/ FLUID
72-MA-02 MARTIN, PARODI+ THEORY-OF-FLUIDS ..THEORY/ SCATTERING LAW ..HYDRODYNAMICS AND THERMODYNAMICS
72-MA-03 MAZENKO THEORY-OF-FLUIDS ..MEMORY FUNCTION
72-MA-04 MAZENKO, WEI+ THEORY-OF-FLUIDS ..THEORY/ DENSITY FLUCTUATION/ DILUTE GAS/ HARD SPHERE/ KINETIC EQUATION
72-MI-03 MITRA, DASS+ THEORY-OF-FLUIDS ..THEORY/ LIQUID/ VELOCITY AUTOCORRELATION/ MEMORY FUNCTION
72-RE-01 RESIBOIS THEORY-OF-FLUIDS ..CLASSICAL LIQUID/ THORY
72-TA-01 TAKENO, GODA THEORY-OF-FLUIDS/ HE ..THEORY/ PHONON-LIKE EXCITATION/ LIQUID HELIUM

72-TA-02 TAKENO, GODA THEORY-OF-SOLIDS/ THEORY-OF-FLUIDS/ HE ..THEORY/ PHONON-LIKE EXCITATION
 73-CH-02 CHIYARA THEORY-OF-FLUIDS ..NEUTRAL AND CHARGED QUANTUM FLUIDS/ INTEGRAL EQUATION
 73-CH-03 CHIYARA THEORY-OF-FLUIDS ..QUANTAL BINARY MIXTURE/ DYNAMICAL STRUCTURE FACTOR/ QUASI-ELASTIC P EAK/ ZERO
 73-CH-04 CHIYARA THEORY-OF-FLUIDS ..INTEGRAL EQUATION/ LONG-RANGE AND SHORT-RANGE POTENTIALS
 73-CH-05 CHIYARA THEORY-OF-FLUIDS ..INTEGRAL EQUATION/ CHARGED PARTICLE SYSTEM
 73-FO-02 FOSTER THEORY-OF-FLUIDS ..CLASSICAL FLUID/ KINETIC THEORY/ PAIR CORRELATION FUNCTION
 73-GR-02 GRUNDKE, HENDERSON+ THEORY-OF-FLUIDS ..PERCUS-YEVICK/ MIXTURE ..LENNARD-JONES
 73-LO-04 LOVESEY THEORY-OF-FLUIDS/ AR ..GENERALIZED LANGEVIN EQUATION/ SCATTERING FUNCTION
 73-MA-01 MACHIDA, MURASE THEORY-OF-FLUIDS/ AR ..SIMPLE LIQUID/ RELAXATION TIME FOR LONGITUDINAL MODE
 73-MA-02 MAZENKO THEORY-OF-FLUIDS ..THEORY/ FLUID/ VELOCITY AUTOCORRELATION
 73-MA-03 MAZENKO THEORY-OF-FLUIDS/ NA ..MEMORY FUNCTION/ SELF DIFFUSION CONSTANT
 73-MI-06 MITRA THEORY-OF-FLUIDS ..THEORY/ LIQUIDS/ DYNAMICAL STRUCTURE FACTOR ..HUBBARD-BEEBY THEORY
 73-PA-07 PATHAK, BANSAL NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS ..THEORY/ FLUID/ SCATTERING FUNCTION
 73-SE-01 SEARS THEORY-OF-FLUIDS ..PARTIAL CORRELATION FUNCTION/ SMALL ϕ REGION/ ELECTRONIC EFFECT
 73-TO-01 TOSI, MARCH THEORY-OF-FLUIDS ..SELF-DIFFUSION/ VELOCITY-AUTOCORRELATION
 73-VI-01 VISSCHER KR/ THEORY-OF-FLUIDS ..TRIPLET CORRELATION
 73-WI-02 WINFIELD, EGELSTAFF THEORY-OF-FLUIDS ..PAIR CORRELATION FUNCTION FOR HYDROGEN BONDED LIQUIDS/ WATER
 74-AN-01 ANDERSEN THEORY-OF-FLUIDS ..BROWNIAN-MOTION
 74-BE-01 BEDEAUX, MAZUR THEORY-OF-FLUIDS ..NEMATIC LIQUID CRYSTAL
 74-BL-01 BLINC, LUGOMER+ THEORY-OF-FLUIDS/ HE ..SECOND SOUND
 74-BR-03 BROOKS, DONNELLY THEORY-OF-FLUIDS ..DYNAMICS OF LIQUID
 74-CH-01 CHALDLER THEORY-OF-FLUIDS ..DYNAMICS OF LIQUID
 74-CH-02 CHAUDLER THEORY-OF-FLUIDS ..THEORY/ LIQUID/ VELOCITY AUTO-CORRELATION FUNCTION ..PERTURBATION TH
 74-EB-01 EBBSCOPE, SCHOFIELD+ THEORY-OF-FLUIDS ..THEORY/ MOLECULAR DYNAMICS
 74-FI-02 FIXMAN, KOVAC THEORY-OF-FLUIDS ..THEORY/ MOLECULAR DYNAMICS
 74-FI-03 FIXMAN, KOVAC THEORY-OF-FLUIDS ..THEORY/ MOLECULAR DYNAMICS
 74-HA-05 HASEGAWA, WATABE AR/ THEORY-OF-FLUIDS ..THEORY/ LIQUID/ CORRELATION FUNCTION ..ELECTRON THEORY/ STRUCTURE FACTOR/ THERMAL EXPANS
 74-JO-04 JORDAN THEORY-OF-FLUIDS ..THEORY/ LIQUID/ CORRELATION FUNCTION ..DIFFUSION COEFFICIENT
 74-LE-01 LEE, LEE THEORY-OF-FLUIDS/ HE ..DISPERSION RELATION
 74-LE-02 LERIBAU, MILLER THEORY-OF-FLUIDS ..THEORY/ LIQUID/ STRUCTURE FACTOR ..PERCUS-YEVICK EQUATION
 74-NA-01 NARBUROWICZ, STECKI THEORY-OF-FLUIDS ..CORRELATION FUNCTION
 74-PA-07 PARRINELLO, TOSI+ THEORY-OF-FLUIDS ..CLUSTER EXPANSION/ DYNAMIC STRUCTURE FACTOR/ SCATTERING LAW ..BINARY L
 74-SA-04 SANDLER, DAS-GUPTA+ THEORY-OF-FLUIDS ..RADIAL-DISTRIBUTION-FUNCTION ..ANALYSIS-OF-DATA
 74-SC-03 SCHOFIELD LIGHT WATER/ THEORY-OF-FLUIDS ..RADIAL-DISTRIBUTION-FUNCTION ..THEORY/ CORRELATION FUNCTION
 74-WA-02 WATTS THEORY-OF-FLUIDS ..THEORY-OF-SOLIDS ..THEORY/ CORRELATION FUNCTION
 75-BA-01 BARKER, GASKELL THEORY-OF-FLUIDS/ NA ..LIQUID METALS/ DAMPING OF COLLECTIVE MODE/ LONG-RANGE OSCILLATORY I
 75-BL-04 BLOCK, SCHOMMERS RB/ THEORY-OF-FLUIDS ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ CORRELATION FUNCTION ..TRIPLET
 75-GO-01 GOETZE, LUECKE THEORY-OF-FLUIDS/ AR ..CLASSICAL FLUID/ EXCITATION SPECTRUM
 75-HA-01 HANSEN, MCDONALD THEORY-OF-FLUIDS ..MOLECULAR DYNAMICS/ MOLTEN SALT/ STRUCTURE FACTOR/ SCATTERING FUNCTION
 75-JH-01 JHON, FORSTER THEORY-OF-FLUIDS/ AR ..THEORY/ DYNAMICAL STRUCTURE FACTOR
 75-SI-01 SIEGEL THEORY-OF-FLUIDS ..PERCUS-YEVICK TEMPERATURE
 75-SI-02 SIEGEL THEORY-OF-FLUIDS ..LIQUID VIRTUAL CRYSTAL/ LONG WAVELENGTH SOUND VELOCITY/ LIQUID BINARY ALLOYS
 75-SI-03 SIEGEL THEORY-OF-FLUIDS ..STRUCTURE FACTOR/ BINARY ALLOY LIQUID
 75-SI-04 SIEGEL THEORY-OF-FLUIDS ..SOUND VELOCITY/ MELTING TEMPERATURE/ LIQUID METAL
 75-SI-05 SIEGEL THEORY-OF-FLUIDS ..MELTING/ STRUCTURE FACTOR/ DISPERSION RELATION
 75-TE-01 TENTI, DESAI THEORY-OF-FLUIDS ..MODEL COLLISION OPERATOR/ KINETIC EQUATION
 75-TE-02 TENTI, DESAI THEORY-OF-FLUIDS ..THEORY/ CORRELATION FUNCTION
 75-YO-01 YOSHIDA, TAKENO THEORY-OF-FLUIDS/ AR ..CLASSICAL SIMPLE LIQUID/ DYNAMICAL STRUCTURE FACTOR/ DISPERSION CUR

52-PL-01 PLACZEK SCATTERING-THEORIES ..TOTAL AND DIFFERENTIAL CROSS SECTION
54-VI-01 VINEYARD SCATTERING-THEORIES ..THEORY/ MULTIPLE SCATTERING
58-EG-01 EDELSTAFF BE/ MG/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ SOLID/ SIGMA(E, E-PRIME, THETA)/ SIGMA(E) ..0
58-MA-01 MAZO, ZEMACH SCATTERING-THEORIES ..THEORY/ SCATTERING CROSS SECTION ..IMPERFECT GAS/ ELASTIC AND INELASTIC
60-NE-01 NELKIN SCATTERING-THEORIES ..SIGMA(E) ..DOPPLER-BROADENING OF ABSORPTION RESONANCE/ SLOW NEUTRON SCATT
60-SC-01 SCHOFIELD SCATTERING-THEORIES ..SCATTERING THEORY
60-VO-01 VOLKIN SCATTERING-THEORIES ..MOLECULAR DYNAMICS/ THEORY/ SIGMA(E, E-PRIME, THETA) ..MOLECULAR ROTATOR
61-EG-03 EDELSTAFF SCATTERING-THEORIES ..SCATTERING THEORY ..DATA TREATMENT
61-EG-04 EDELSTAFF SCATTERING-THEORIES ..SCATTERING THEORY/ SCATTERING FUNCTION
61-MC-01 MCLATCHIE, HEARD+ SCATTERING-THEORIES ..SCATTERING LAW/ DEBYE APPROXIMATION/ SOLID/ LIQUID/ THEORY
61-SC-02 SCHOFIELD SCATTERING-THEORIES ..SCATTERING THEORY ..SPACE-TIME CORRELATION FUNCTION
61-TU-02 TURNER SCATTERING-THEORIES ..THEORY/
62-AA-01 AMODT, CASE+ SCATTERING-THEORIES ..SCATTERING THEORY
62-EG-03 EDELSTAFF, SCHOFIELD SCATTERING-THEORIES/ H2/O/ PB ..EXPERIMENT/ THEORY/ LIQUID/ DIFFUSION PARAMETER ..ROO
62-FE-01 FERZIGAR, LEONARD SCATTERING-THEORIES ..THEORY/ DIFFRACTION
62-KO-03 KOSALY, TURNER SCATTERING-THEORIES ..QUASI-CLASSICAL APPROXIMATION
62-MC-03 MCMURRY SCATTERING-THEORIES ..THEORY/ MOLECULAR ROTATIONS/ MOLECULAR VIBRATIONS/ SIGMA(E, E-PRIME, THETA)
62-PU-01 PUROHIT, ROJAGOPAL SCATTERING-THEORIES ..SCATTERING THEORY/ SIGMA(E)
62-PU-02 PUROHIT, ROJAGOPAL SCATTERING-THEORIES ..SCATTERING THEORY
63-EG-02 EDELSTAFF SCATTERING-THEORIES ..SCATTERING LAW/ THEORY ..SELF TERM/ INTERFERENCE TERM
63-PL-01 PLUMMER, SUMMERFIELD SCATTERING-THEORIES ..THEORY
63-RA-01 RAHMAN SCATTERING-THEORIES ..SCATTERING THEORY/ SCATTERING FUNCTION
63-SU-01 SUMMERFIELD, ZWEIFEL SCATTERING-THEORIES ..SCATTERING LAW/ THEORY/ CORRELATION FUNCTION/ SCATTERING THEORY
64-NI-01 NIJBOER, KOKKEDEE SCATTERING-THEORIES ..THEORY/ LIQUID/ SOLID/ SCATTERING THEORY
64-SU-01 SUMMERFIELD SCATTERING-THEORIES ..THEORIES/ FERMI-APPROXIMATION
65-AK-02 AKCASU, OSBORN THEORY-OF-SOLIDS/ SCATTERING-THEORIES ..DAMPING THEORY/ SCATTERING CROSS SECTION/ ANHARMONI
65-MA-01 MAJOROV SCATTERING-THEORIES ..SCATTERING FUNCTION
65-RO-02 ROSENBAUM, ZWEIFEL SCATTERING-THEORIES ..SCATTERING THEORY
65-ST-03 STEELE, PECORA SCATTERING-THEORIES ..THEORY/ STATISTICAL MECHANICS/ DIFFERENTIAL CROSS SECTION/ CORRELATIO
65-VA-01 VAN-LEEUEWEN, YIP SCATTERING-THEORIES ..THEORY ..KINETIC EQUATIONS/ DENSE GAS
66-KO-06 KOSALY, SOLT SCATTERING-THEORIES ..THEORY ..MODIFICATION OF KRIEGER-NELKIN THEORY
66-NI-01 NIJBOER, RAHMAN SCATTERING-THEORIES ..CORRELATION FUNCTION/ SCATTERING THEORY
66-NO-01 NOSSAL SCATTERING-THEORIES ..DIFFERENTIAL CROSS SECTION/ MULTIPLE SCATTERING
66-SU-02 SUNAKAWA, FUKUI+ SCATTERING-THEORIES ..THEORY/ CROSS SECTION EVALUATION
67-GI-01 GIBBS, LINDENMEIER SCATTERING-THEORIES ..CORRELATION FUNCTION/ THEORY
67-KU-01 KURKIJARVI SCATTERING-THEORIES ..SCATTERING THEORY
67-PL-01 PLUMMER SCATTERING-THEORIES ..SCATTERING THEORY
67-RA-02 RAMASESHEN, VISWANATHAN SCATTERING-THEORIES ..ANORMALOUS SCATTERING/ POLARIZATION VECTOR/ ONE-PHONON SCATT
67-SL-01 SLAGGIE SCATTERING-THEORIES ..THEORY
67-SU-01 SUMMERFIELD, ZWEIFEL SCATTERING-THEORIES ..THEORY ..MULTIPLE SCATTERING CORRECTION
67-WI-01 WIGNALL SCATTERING-THEORIES ..CROSS SECTION EVALUATION/ EXPERIMENT
68-PA-04 PAHOR SCATTERING-THEORIES ..SCATTERING THEORY ..MULTIPLE SCATTERING CORRECTION
68-SC-03 SCHERMER, BLUME SCATTERING-THEORIES ..SOLID/ SCATTERING THEORY
68-SU-01 SUGAWARA, YIP+ SCATTERING-THEORIES ..GAS/ FREQUENCY SPECTRUM/ THEORY ..KINETIC-THEORY
69-BA-01 BASHER, PULL SCATTERING-THEORIES ..SCATTERING LAW ..MONTE CARLO METHOD
69-ED-01 EDER SCATTERING-THEORIES ..THEORY/ PHONON EXPANSION/ MULTI-PHONON CONTRIBUTION
69-KU-01 KUSCER, SUMMERFIELD SCATTERING-THEORIES ..DETAILED-BALANCE/ THEORY
69-RI-01 RICHTER, VOSS THEORY-OF-FLUIDS/ SCATTERING-THEORIES ..THEORY/ SCATTERING LAW/ VLASOV MODEL
69-SL-01 SLAGGIE SCATTERING-THEORIES ..THEORY/ SCATTERING LAW
70-ER-01 ERIKSSON SCATTERING-THEORIES ..SCATTERING THEORY

70-NI-01 SCATTERING-THEORIES ..THEORY/ QUASICLASSICAL APPROXIMATION
 71-BI-02 BISCHOFF, MOORE+ SCATTERING-THEORIES/ COMPUTER-CODES/ H2.O ..MULTIPLE SCATTERING/ THEORY/ SIGMAE, E-PRIME
 71-MA-06 MARSHALL, LOVESEY SCATTERING-THEORIES ..THEORY/ CORRELATION FUNCTION/ PHONON/ MAGNETIC/ SPIN WAVE/ LIQUID/
 72-BU-06 BUYERS, SEARS+ NE/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ LIQUID DYNAMICS/ COLLECTIVE MOTION/ SINGLE PA
 72-CO-05 COWLEY THEORY-OF-SOLIDS/ SCATTERING-THEORIES ..THEORY/ PHONON/ ALLOYS/ ORDER-DISORDER STATE
 72-EG-01 EDELSTAFF THEORY-OF-FLUIDS/ SCATTERING-THEORIES ..TIME DEPENDENT TRIPLET FUNCTION/ PRESSURE DERIVATIVE OF
 72-JA-03 JANNINK, SUMMERFIELD SCATTERING-THEORIES ..THEORY/ POLYMER CHAINS IN SOLUTION/ DIFFUSIVE MOTION
 74-FR-01 FRANK SCATTERING-THEORIES ..ULTRACOLD NEUTRON
 74-HA-04 HARA, HONDA SCATTERING-THEORIES ..SCATTERING FUNCTION/ CORRECTION OF MULTIPLE SCATTERING
 75-LA-01 LABUSCH SCATTERING-THEORIES/ SUPERCONDUCTOR ..THEORY
 75-WO-01 WOOD, MOSTOLLER SCATTERING-THEORIES ..THEORY/ SOLID/ GREEN,S FUNCTION/ COHEREN SCATTERING ..INTERSTITIALS

1. 7 MAGNETIC-SCATTERING

66-DI-02 DIMITRIJEVIC, KRASNICKI+ MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ DIFFUSE SCATTERING
 66-GL-01 GLAUBERMAN, RUVINSKII NEUTRON-SCATTERING-IN-SOLIDS/ MAGNETIC-SCATTERING ..THEORY/ SCATTERING BY EXCITONS
 67-DI-01 DIMITRIJEVIC, KRASNICKI+ MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
 69-AL-01 ALIKHANOV, DIMITRIJEVIC+ CR2.O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION RELATION/ ALPHA.CR2.O
 70-AL-03 ALIKHANOV, DIMITRIJEVIC+ FE2.O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
 71-ER-01 ERNST, SCHELLEN+ CU-CO/ MAGNETIC-SCATTERING/ SCATTERING-BY-DEFECTS ..EXPERIMENT/ SMALL ANGLE SCATTERING/ P
 73-CH-01 CHAMARD-BOIS, ROSSAT-MIGNOD MAGNETIC-SCATTERING/ HO-RH ..EXPERIMENT/ T-O-F/ CRYSTAL-FIELD-LEVEL
 73-IK-01 IKEDA, HIRAKAWA K2.MN.F4/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
 73-KH-01 KHENNING, SHARAOV FE-MN/ MAGNETIC-SCATTERING ..EXPERIMENT/ FE0.5-MN0.5/ CRITICAL MAGNETIC SCATTERING
 74-BE-02 BETSUYAKU, HAMAGUCHI K,MN,F3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNETIC SCATTERING FUNCTION/ 3.4TN
 74-GL-01 GLINKA, MINKIEWICZ+ MAGNETIC-SCATTERING ..SMALL ANGLE SCATTERING/ CRITICAL SCATTERING/ MAGNON
 74-HE-01 HEER, FURRER+ ER-Y-AL/ MAGNETIC-SCATTERING ..INELASTIC NEUTRON SCATTERING/ SUSCEPTIBILITY
 74-HU-01 HUTCHINGS REVIEW-ARTICLES/ MAGNETIC-SCATTERING ..MAGNETIC INELASTIC SCATTERING/ MAGNON/ EXCITONS/ INORGAN
 74-IK-01 IKEDA K2.CO.F4/ K2.CU.F4/ K.CU.F3/ K2.MN.F4/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
 74-IS-01 ISHIKAWA, NODA PD-MN-SN/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
 74-KO-02 KOHGI, ISHIKAWA+ MN.O/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION/ 4.2DK TO 117DK/ THEORY/ MAGNON
 74-SA-01 SACCETTI MAGNETIC-SCATTERING ..THEORY
 74-SH-01 SHAPIRO, AXE TM.FE.O3/ ER.FE.O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION/ SOFT MODE
 74-ST-02 STEINER, DORNER+ CS.NI.F3/ MAGNETIC-SCATTERING ..CONSTANT-0 METHOD/ CORRELATION FUNCTION/ SPIN WAVE
 74-WA-01 WAKABAYASHI, NICKLOW Y-TB/ Y-HO/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION/ ALLOY/ 4.2 DK
 75-BE-05 BETSUYAKU K,MN,F3/ MAGNETIC-SCATTERING ..THEORY/ SUM-RULE MOMENT METHOD/ SCATTERING FUNCTION
 75-BL-03 BLETRY, SADOC CO.P/ MAGNETIC-SCATTERING ..EXPERIMENT/ PAIR-CORRELATION FUNCTION
 75-DE-01 DE-PATER, VAN-DIJK+ PD-MN/ MAGNETIC-SCATTERING ..EXPERIMENT/ DIFFUSE SCATTERING/ GIANT MAGNETIC MOMENT
 75-EL-01 ELLIOTJ, / KLEPPMANN NEUTRON-SCATTERING-IN-SOLIDS/ MAGNETIC-SCATTERING ..THEORY ..DIAMAGNETIC SCATTERING F
 75-HE-01 HEIDEMANN CO.P/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNETIC HYPERFINE SPLITTING
 75-HE-03 HENNION, HENNION+ NI-FE/ MAGNETIC-SCATTERING ..STIFFNESS CONSTANT/ SPIN WAVE
 75-IS-01 ISHIKAWA, KOHGI+ FE-NI-CR/ MAGNETIC-SCATTERING ..EXPERIMENT/ CANTED SPIN STRUCTURE
 75-LI-01 LINDGARD, BIRGENEAU+ NI-CL2/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON
 75-MO-02 MOOK, WAKABAYASHI+ CO4,P/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
 75-SH-01 SHIRANE, CHIKAZUMI+ MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ CHARGE ORDERING
 75-ST-01 STASSIS, DECKMAN MAGNETIC-SCATTERING ..MAGNETIC SCATTERING/ GENERAL THEORY
 75-TA-03 TAUB, PARENTE MAGNETIC-SCATTERING/ HO.SB/ DY.SB ..EXPERIMENT/ CRITICAL SCATTERING

1. 8 PHASE-TRANSITION

73-BO-05 BOYER, HARDY GADOLINIUM MOLYBDATE/ PHASE-TRANSITION ..THEORY/ RIGID-ION MODEL/ PHONON DISPERSION/ FREQUENC
 73-BR-02 BRUCE, COWLEY SR, TI, O3/ PHASE-TRANSITION ..THEORY/ ANHARMONIC MODEL/ PHONON FREQUENCY, LINE WIDTH
 74-CU-01 CURRAT, COMES+ K, NB, O3/ PHASE-TRANSITION ..EXPERIMENT/ PHONON DISPERSION/ SOFT MODE
 74-RI-01 RISTE REVIEW-ARTICLES/ PHASE-TRANSITION ..CONFERENCE PROCEEDING/ NATO ADVANCED STUDY INSTITUTE
 74-SH-02 SHAPIRO, AXE+ NB, O2/ PHASE-TRANSITION ..CRITICAL SCATTERING DUE TO SOFT MODE
 74-SH-04 SHIRANE SR, TI, O3/ K, MN, F3/ K, TA, O3/ PHASE-TRANSITION ..REVIEW/ SOFT MODE/ PHASE CHANGE
 75-FU-01 FUJII, SHIRANE+ MAGNETITE/ PHASE-TRANSITION ..EXPERIMENT/ 123DK TRANSITION/ CRITICAL SCATTERING/ VERWEY OR
 75-MO-03 MORI, YAMADA+ AU-CU-ZN/ PHASE-TRANSITION ..EXPERIMENT/ SOFT MODE/ AU, CU, ZN2

1. 9 SCATTERING-BY-DEFECTS

68-TA-01 TAGLAUER CU/ SCATTERING-BY-DEFECTS ..EXPERIMENT/ SMALL ANGLE SCATTERING/ DISLOCATION IN COLD WORKED CRYST
 71-ER-01 ERNST, SCHELTEN+ CU-CO/ MAGNETIC-SCATTERING/ SCATTERING-BY-DEFECTS ..EXPERIMENT/ SMALL ANGLE SCATTERING/ P
 72-CO-02 COHEN NEUTRON-SCATTERING-IN-SOLIDS/ SCATTERING-BY-DEFECTS ..THEORY/ INELASTIC INCOHERENT SCATTERING F
 72-IV-01 IVANOV, FISHMAN NEUTRON-SCATTERING-IN-SOLIDS/ SCATTERING-BY-DEFECTS ..THEORY/ LINEAR DEFECT
 72-ST-01 STEELE, CHILDS+ CA, F2/ SCATTERING-BY-DEFECTS ..DIFFUSE SCATTERING
 74-ZY-01 NEUTRON SCATTERING LABORATORY, DIVISION

REVI

1. 10 SUPERCONDUCTOR

73-AX-03 AXE, SHIRANE NB3, SN/ SUPERCONDUCTOR ..ACOUSTIC PHONON DISPERSION/ TEMPERATURE CHANGE/ CUBIC-TETRAGONAL PHA
 75-LA-01 LABUSCH SCATTERING-THEORIES/ SUPERCONDUCTOR ..THEORY

1. 11 LIQUID-CRYSTAL

72-DI-02 DIMIC, BARBIC+ MBBA/ LIQUID-CRYSTAL ..INCOHERENT QUASIELASTIC SCATTERING/ DIFFUSION CONSTANT
 74-NI-01 NIIMURA P-AZOXYANISOLE/ LIQUID-CRYSTAL ..EXPERIMENT/ STRUCTURE FACTOR
 74-ST-01 STAMENKOVIC NEUTRON-SCATTERING-IN-FLUIDS/ LIQUID-CRYSTAL ..THEORY/ SOLID/ SIGMA (THETA,E) ..LIQUID CRYSTAL

1. 12 COMPILATIONS

62-EG-02 EGELSTAFF GRAPHITE/ H2, O/ D2, O/ COMPILATIONS ..SCATTERING LAW ..24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR
 63-PA-02 PARKER COMPILATIONS/ COMPUTER-CODES
 66-GO-01 GOLDBERG, MUGHABGHAB+ COMPILATIONS ..SIGMA(E)
 70-PR-03 PRICE, SHYU+ COMPILATIONS ..SOLID/ THEORY ..PAIR POTENTIAL/ METAL

1. 13 COMPUTER-CODES

61-BE-01 BELL COMPUTER-CODES
 61-HO-01 HONECK COMPUTER-CODES
 62-MA-02 MACLATCHI COMPUTER-CODES
 63-LI-01 LINDENMEIER, MATSUMOTO+ H2, O/ POLYETHYLENE/ COMPUTER-CODES ..SCATTERING THEORY/ LIQUID/ SIGMA(E,E-PRIME), TH
 63-MA-01 MACDOUGALL COMPUTER-CODES ..SIGMA(E,E-PRIME)/ SCATTERING LAW/ GAS/ LIQUID/SOLID/ CROSS SECTION EVALUATION
 63-PA-02 PARKER COMPILATIONS/ COMPUTER-CODES
 64-HO-01 HONECK, HOUSTON+ COMPUTER-CODES ..MULTIPLE SCATTERING/ THEORY
 64-MC-01 MCMURRY, GANNON COMPUTER-CODES/ H2, O ..THEORY/ SCATTERING LAW/ SIGMA(E)/ SIGMA(E,E-PRIME)/ SIGMA-TRANSPORT
 64-NA-01 NALIBOFF, KOPPEL COMPUTER-CODES ..THEORY/ COHERENT/ ..POLYCRYSTAL/ FORTRAN LIST

65-GA-01 GANNON, MCMURRY C,H4/ C2,H6/ COMPUTER-CODES ..THEORY/ MOLCULAR DYNAMICS/ SCATTERING FUNCTION
 65-HO-03 HONECK, NALIBOFF COMPUTER-CODES
 65-II-01 IJIMA, TOKIZAWA COMPUTER-CODES
 65-MA-04 MATSUOKA, ARAI COMPUTER-CODES
 65-NA-02 NALIBOFF COMPUTER-CODES/ HYDROGEN ..THEORY/ LIQUID
 65-SH-02 SHIMADA COMPUTER-CODES
 66-BE-04 BEVINGTON, PETITT COMPUTER-CODES ..CODE/ NEUTRON SCATTERING/ ANGULAR DISTRIBUTION
 66-KO-03 KOPPEL, TRIPLETT+ COMPUTER-CODES ..SCATTERING FUNCTION/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ SCATTERING T
 66-SP-01 SPARK COMPUTER-CODES ..CDC-3600 PROGRAM
 66-ZY-01 JAPANESE NUCLEAR DATA COMMITTEE + COMPUTER-CODES
 67-BO-03 BOYSTER, MCMURRY COMPUTER-CODES ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS ..FORTRAN PROGRAM FOR THE I
 67-CL-01 CLENDENIN COMPUTER-CODES ..CROSS SECTION EVALUATION/ SOLID/ SCATTERING FUNCTION ..FORTRAN LIST
 67-CU-01 CURTIS, GRIMESEY COMPUTER-CODES ..NEUTRON SPECTRUM
 67-HU-01 HUTCHINSON, SCHOFIELD COMPUTER-CODES ..SCATTERING FUNCTION ..INCOHERENT GAUSSIAN APPROXIMATION
 67-JA-02 JARVIS COMPUTER-CODES
 67-KO-03 KOPPEL, TRIPLETT+ COMPUTER-CODES ..SCATTERING FUNCTION ..DIFFERENTIAL CROSS SECTION
 67-LI-02 LITTON COMPUTER-CODES
 67-NA-01 NAKAHARA, KATO BE/ H2,O/ COMPUTER-CODES ..SOLID/ THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 67-NO-01 NOBLE, SOLBRIG-JR+ COMPUTER-CODES ..LATTICE DYNAMICS ..COHERENT SINGLE-PHONON SCATTERING OF NEUTRONS
 68-VI-01 VISSER, VAN-DER-WALT COMPUTER-CODES
 68-BO-07 BOYSTER, MCMURRY+ COMPUTER-CODES ..THEORY/ SLAB SAMPLE/ TUBLER SAMPLE
 68-BO-01 BISCHOFF, MOORE+ COMPUTER-CODES ..LATTICE DYNAMICS/ DISPERSION RELATION ..STRUCTURE FACTOR FOR COHERENT
 69-BO-07 BOYSTER, MCMURRY+ COMPUTER-CODES ..THEORY/ SOLID/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANTS/ STRUCTURE
 69-BU-01 BUTLAND COMPUTER-CODES ..POLYCRYSTAL
 69-DI-01 DICKEY, PASKIN COMPUTER-CODES ..THEORY/ SOLID/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ ANHARMONICITY
 69-PR-04 PREVENDER COMPUTER-CODES ..LATTICE DYNAMICS/ FORCE CONSTANTS FITTING ..CS,CL TYPE CRYSTAL/ PROGRAM LIST
 69-PR-05 PREVENDER COMPUTER-CODES ..LATTICE DYNAMICS/ DISPERSION CURVES/ POLARIZATION VECTOR/ STRUCTURE FACTOR
 70-AR-01 ARKUSZEWSKI COMPUTER-CODES ..THEORY/ SOLID/ SCATTERING LAW
 70-BO-03 BORGONOV I COMPUTER-CODES ..SCATTERING LAW/ SIGMA(E,E-PRIME)
 70-KA-01 KADOTANI COMPUTER-CODES ..CODE MANUAL
 71-BI-02 BISCHOFF, MOORE+ SCATTERING-THEORIES/ COMPUTER-CODES/ H2,O ..MULTIPLE SCATTERING/ THEORY/ SIGMA(E, E-PRIME
 72-BU-04 BUTLAND COMPUTER-CODES ..PHONON SPECTRA/ SCATTERING LAW
 72-NA-01 NAKAHARA, KADOTANI ZR-H/ COMPUTER-CODES ..THEORY/ SIGMA (E,E-PRIME)/ SIGMA (E)/ SIGMA-TRANSPORT(E)/ SOLID
 74-JO-03 JOHNSON COMPUTER-CODES ..MULTIPLE SCATTERING CORRECTION/ INELASTIC SCATTERING

1. 14 MISCELLANEOUS

60-SI-02 SINGWI, SJOELANDER MISCELLANEOUS ..THEORY/ MOESSBAVER EFFECT
 66-BE-02 BERNE, BOON+ MISCELLANEOUS ..AUTOCORRELATION FUNCTION
 66-CA-01 CANDELORE, CAST MISCELLANEOUS ..SCATTERING THEORY
 69-BL-02 BLAIN MISCELLANEOUS ..STRUCTURE FACTOR/ LIQUID/ THEORY
 71-TH-02 THOMAS MISCELLANEOUS ..THEORY ..MOTION OF CENTER OF MASS IN PRESENCE OF EXTERNAL RADIATION
 72-NA-06 NATHANS MISCELLANEOUS
 74-EG-01 EGELSTAFF, GRAHAM+ MISCELLANEOUS

2 MONATOMIC ELEMENTS

2. 1 ALUMINIUM

AL

56-SO-01 SØJRES NEUTRON-SCATTERING-IN-SOLIDS/ AL ..THEORY/ LATTICE VIBRATION/ FREQUENCY DISTRIBUTION ..ENERGY D
 57-CA-01 CARTER, PALEVSKY+ AL ..EXPERIMENT/ LATTICE VIBRATION/ DISPERSION RELATION
 58-BR-03 BROCKHOUSE, STEWART AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 60-LA-02 LARSSON, DAHLBORG+ AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..293-932DK
 61-LA-02 LARSSON, HOLMRYD+ AL ..EXPERIMENT/ SOLID/ DISPERSION RELATION ..CRYSTAL SPECTROMETER/ 80DK
 62-LE-01 LEHMAN, WOLFRAM+ CU/ AL/ ZR-H ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 63-SO-01 SØJRES AL ..LATTICE DYNAMICS/FREQUENCY SPECTRUM
 65-BR-01 BREDOV, KOTOV+ AL ..PHONON SPECTRUM/ EXPERIMENT
 65-LA-01 LARSSON, DAHLBORG+ AL ..EXPERIMENT/ LIQUID/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
 65-SC-01 SCHMUNK, BRUGGER+ AL ..EXPERIMENT/ SCATTERING FUNCTION/ TOF/ FREQUENCY DISTRIBUTION ..POLYCRYSTAL/ COH
 65-ST-01 STEDMAN, NILSSON AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CRYSTAL SPECTROMETER/ 80DK
 65-ST-02 STEDMAN, NILSSON AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CRYSTAL SPECTROMETER/ 80DK
 65-YA-01 YARNELL, WARREN+ AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-AN-01 ANIMALU, BONSIGNORI+ NA/ K/ AL/ LI/ RB/ CS ..THEORY/ PHONON DISPERSION/ MODEL POTENTIAL
 66-BR-05 BRUGGER METHANE/ ETHANE/ AL/ NA/ PB/ AR ..COMPILATION/ SCATTERING FUNCTION
 66-EG-01 EGELSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
 66-GI-02 GILAT, NICKLOW AL ..PHONON DISPERSION/ PHONON SPECTRA
 66-II-01 IJIMA AL ..CALCULATION/ PHONON SPECTRUM/ SCATTERING FUNCTION/ COHERENT
 66-SH-01 SHUKLA, DAYAL AL ..THEORY/ PHONON DISPERSION/ KREBS MODEL
 66-ST-01 STEDMAN, NILSSON AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..3-AXIS SPECTROMETER/ 80DK/ 300DK
 67-BJ-02 BJORKMAN, LUNDQVIST+ AL ..THEORY/ LATTICE DYNAMICS
 67-CA-02 CARBOTTE, DYNES AL ..THEORY/ SUPERCONDUCTING TRANSITION/ PHONON SPECTRA
 67-CO-01 COCKING AL/ PB/ BI/ RB/ SN ..SOLID/ LIQUID/ DISPERSION RELATION/ EXPERIMENT
 67-LA-01 LAKATOS NEUTRON-SCATTERING-IN-SOLIDS/ AL ..LATTICE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION
 67-ST-03 STEDMAN, ALMØVIST+ AL/ PB ..LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..800DK FOR AL/ 500DK FOR PB
 68-GR-02 GRIMVALL, GRIMVALL AL/ NB/ PB ..FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS ..DEBYE TEMP.
 68-SC-06 SCHNEIDER, STOLL NA/ MG/ AL ..THEORY/ LATTICE DYNAMICS ..ELECTRONIC STRUCTURE/ METAL
 69-HO-02 HOEGBERG, SANDSTROEM AL ..THEORY/ PHONON FREQUENCY SHIFT AND DAMPING
 69-JH-01 JHONSON, WESTIN AL ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..METAL/ ION-ELECTRON INTERACTION MODEL
 69-WA-05 WALLACE AL ..THEORY/ PHONON DISPERSION
 70-BI-01 BINDER AL ..EXPERIMENT/ SCATTERING CROSS SECTION
 70-BR-01 BRAUNECK, GAHN+ AL ..THEORY/ STRUCTURE FACTOR
 70-CO-06 COULTHARD SODIUM/ POTASSIUM/ ALUMINIUM/ LEAD ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..PRESSURE
 70-GU-02 GUPTA, TRIPATHI AL ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ METAL
 70-KO-01 KOEHLER, GILLIS+ AL ..THEORY/ ANHARMONICITY/ PHONON WIDTHS AND LIFETIMES/ METAL
 70-SA-04 SANDSTROEM, HOEGBERG AL ..THEORY/ ANHARMONICITY/ PHONON WIDTHS AND LIFETIMES/ METAL
 70-WA-01 WALLACE AL ..THEORY/ LOCAL PSEUDOPOTENTIAL MODEL
 70-WE-05 WEYMOUTH, STEDMAN AL ..EXPERIMENT/ LATTICE DYNAMICS/ FERMI SURFACE/ KOHN ANOMALIES
 71-GI-03 GILLIS, KOEHLER AL ..THEORY
 71-NO-01 NOLLING THEORY-OF-FLUIDS/ AL/ AR ..THEORY/ VAN-HOVE-CORRELATION-FUNCTION
 71-SC-01 SCHMUCK AL ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL/ OPW METHOD
 71-SI-01 SINGH, SHARMA CU/ AG/ AU/ AL/ NI/ NA/ CR/ FE ..THEORY/ DEBYE-WALLER FACTOR
 72-GO-02 GOMPF, LAU+ PB/ AL/ CA ..EXPERIMENT/ PHONON SPECTRA/ COHERENT SCATTERING
 72-PR-02 PRASAD, SRIVASTAVA AL ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE ..METAL/ T
 73-KA-01 KACHHAVA AL ..THEORY/ DISPERSION CURVE

73-SH-05 SHUKLA, CAVALHEIRO CU/ AG/ AL/ NI/ PD ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ FOURTH NEIGHBOURS FORCE
 73-ST-01 STALLARD, DAVIS-JR AL ..EXPERIMENT/ STRUCTURE FACTOR/ LIQUID METAL/ 703.1029 DC
 74-BR-02 BREUER AL ..COHERENT NEUTRON SCATTERING/ POLYCRYSTAL
 74-CO-05 COWLEY AL ..CALCULATION/ FREQUENCY SPECTRA/ BORN-VON KARMAN MODEL
 74-HA-01 HAFNER, SCHMUCK AL ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ KOHN EFFECT
 74-RA-06 RAO AL ..THEORY/ NONLOCAL OPTIMIZED MODEL POTENTIAL/ PHONON DISPERSION/ LIQUID RESISTIVITY
 75-RE-01 REISSLAND, ESE AL/ NA/ MG/ IN/ TL ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ MODEL POTENTIAL CALCULATION

2. 2 ANTIMONY

SB

63-AR-01 ARNOLD, NERESON GA/ IN/ SB/ AS ..EXPERIMENT/ SCATTERING AMPLITUDE
 68-EL-01 EL-ELA, SALAMA+ SB ..TOTAL CROSS SECTION
 71-SH-02 SHARP, WARMING SB ..EXPERIMENT/ PHONON DISPERSION
 71-SO-04 SOSNOWSKI, MALISZEWSKI+ SB ..EXPERIMENT/ PHONON DISPERSION/ 5-NEIGHBOURS MODEL FITTING
 71-SO-05 SOSNOWSKI, MALISZEWSKI+ SB ..EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
 71-SO-06 SOSNOWSKI, MALISZEWSKI+ SB ..EXPERIMENT/ PHONON DISPERSION
 71-WA-06 WASEDA, SUZUKI SB ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
 72-SO-03 SOSNOWSKI, CZACHOR+ SB ..EXPERIMENT/ PHONON DISPERSION/ FIVE-NEIGHBOUR MODEL FITTING
 72-SO-04 SOSNOWSKI, CZACHOR+ SB ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECTRUM

2. 3 ARGON

AR

47-ME-01 MEHRINGER AR ..MODEL CALCULATION/ PHONON-LIKE EXCITATION/ DISPERSION CURVE
 59-DE-01 DE-GENNES NEUTRON-SCATTERING-IN-FLUIDS/ AR ..SCATTERING THEORY/ ..LIQUID DYNAMICS/ MOMENTS METHOD
 62-GI-01 GINGRICH, TOMPSON ARGON ..EXPERIMENT/ LIQUID ..X-RAY
 63-BR-02 BROCKHOUSE, BERGSMAN SN/ H2.O/ AR/ HE ..EXPERIMENT/ LIQUID
 64-KR-01 KROO, BORGONOV+ AR ..EXPERIMENT/ LIQUID/ SOLID
 64-RA-01 RAHMAN AR ..THEORY/ MOLECULAR DYNAMICS ..LIQUID DYNAMICS/ DIGITAL COMPUTER SIMULATION
 65-CH-02 CHEN, EDER+ NEON/ ARGON/ DEUTERIUM/ CARBON TETRAFLUORIDE ..EXPERIMENT/ LIQUID/ SIGMATHETA.E)
 65-DA-01 DASANNACHARYA, RAO AR ..EXPERIMENT/ LIQUID/ SCATTERING LAW
 65-GR-04 GRINDLAY, HOWARD AR ..THEORY/ SOLID/ LATTICE DYNAMICS
 65-KR-02 KROO, BORGONOV+ AR ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
 65-RA-02 RANDOLPH AR ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION ..LIQUID AND SOLID
 65-SE-01 SEARS NEUTRON-SCATTERING-IN-FLUIDS/ AR ..LIQUID/ CORRELATION FUNCTION
 65-SI-04 SINGWI ARGON ..THEORY/ LIQUID/ SCATTERING LAW ..COHERENT SCATTERING/ ONE-PHONON APPROXIMATION
 66-DE-03 DESAI, NELKIN AR ..THEORY/ LIQUID/ INTERMEDIATE SCATTERING FUNCTION
 66-ED-01 EDER, CHEN+ AR/ NE ..THEORY/ LIQUID ..COLLECTIVE MOTION IN LIQUID
 66-GU-01 GUPTA, DAYAL AR/ KR ..EXPERIMENT/ H IN LIQUID AR AND NE
 66-PA-03 PASKIN REVIEW-ARTICLES/ AR/ NA/ CE/ RB ..LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTO-CORRELATION FU
 66-RA-01 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS/ AR ..LIQUID/ FREQUENCY DISTRIBUTION ..COMPUTER EXPERIMENT/ 85.5DK
 66-RA-02 RAHMAN AR ..FREQUENCY DISTRIBUTION/ THEORY/ LIQUID/ MOLECULE DYNAMICS ..COMPUTER EXPERIMENT
 67-BO-01 BOON, RICE AR/ THEORY-OF-FLUIDS ..THEORY/ LIQUID ..MOMENTUM AUTO-CORRELATION FUNCTION
 67-LE-02 LEVI AR ..MOLECULAR DYNAMICS/ LIQUID/ FREQUENCY DISTRIBUTION/ THEORY
 67-MI-01 MIKOLAJ, PINGS AR ..LIQUID/ EXPERIMENT
 67-MI-02 MIKOLAJ, PINGS AR ..EXPERIMENT/ LIQUID ..RADIAL DISTRIBUTION/ -130DC--110DC/ X-RAY
 67-SC-02 SCHCROFT, MARCH THEORY-OF-FLUIDS/ AR ..THEORY
 67-SI-02 SINGWI, TOSI THEORY-OF-FLUIDS/ ARGON ..THEORY/ LIQUID ..VELOCITY AUTO-CORRELATION
 67-SK-02 SKOELD, LARSSON AR ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION/ DISPERSION RELATION ..94DK
 67-SK-04 SKOELD AR ..LIQUID/ THEORY/ SCATTERING FUNCTION ..QUASIELASTIC SCATTERING

68-AG-02 AGRWAL, DESAI+ NEUTRON-SCATTERING-IN-FLUIDS/ AR/ NA/ PB/ METHANE ..THEORY ..MODEL CALCULATION
68-AN-01 ANDRIESSE AR ..THEORY/ LIQUID/ SCATTERING THEORY ..84DK
68-AN-02 ANDRUS, MUEATHER+ AR ..LIQUID/ EXPERIMENT
68-AN-03 ANDRUS, MUEATHER+ AR ..SCATTERING LAW/ EXPERIMENT/ LIQUID ..BE FILTER METHOD/ 87DK/ 111DK/ 124DK/ 22A
68-AN-04 ANDRUS, MUEATHER+ AR ..EXPERIMENT/ TOP/ QUASI-ELASTIC
68-AN-05 ANDRUS, MUEATHER+ AR ..LIQUID/ EXPERIMENT ..QUASI-ELASTIC PEAK/ TEMPERATURE DEPENDENCE/ 87.97.111.124 DEG.K
68-AR-01 ARDENTE, NARDELL+ AR/ NA ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION
68-DE-04 DESAI, YIP AR ..LIQUID/ SCATTERING FUNCTION ..94.4DK
68-EG-01 EGGER, GSANGER+ AR ..EXPERIMENT/ PHONON DISPERSION/ SINGLE CRYSTAL
68-FR-01 FRANCHETTI, MAZZA AR/ NE/ HE ..THEORY/ MONATOMIC LIQUID/ RADIAL DISTANCE AND SCATTERIN FUNCTION
68-GL-03 GLASS, RICE NEUTRON-SCATTERING-IN-FLUIDS/ AR ..THEORY/ LIQUID/ CORRELATION FUNCTION ..COHERENT-SCATTERING T
68-MA-09 MARTIN, YIP AR ..FREQUENCY DISTRIBUTION/ THEORY/ LIQUID/ STATISTICAL MECHANICS ..FLUCTUATION-DISSIPATION T
68-RI-01 RICHTER, VOSS AR/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LINEARIZED VLASOV-BOLTZMAN EQUATION
68-RJ-02 RICHTER, VOSS AR ..THEORY/ LIQUID/ QUASI-ELASTIC SCATTERING ..LINEARIZED VLASOV EQUATION
68-SI-01 SINGWI, SJOELANDER AR ..THEORY/ LIQUID/ PAIR DISTRIBUTION FUNCTION ..85.9DK
68-SI-02 SINGWI, SKOELD+ NEUTRON-SCATTERING-IN-FLUIDS/ AR ..THEORY/ LIQUID/ MOLECULAR DYNAMICS
69-AN-01 ANDRIESSE, COMPAGNER+ AR ..EXPERIMENT/ GAS DYNAMICS
69-PA-01 PAGE, EGELSTAFF+ AR/ RB ..LIQUID/ STRUCTURE FACTOR
69-SC-01 SCHNEIDER, STOLL+ NEUTRON-SCATTERING-IN-FLUIDS/ AR ..DISPERSION
69-TA-01 TAHIR-KHELI, WU AR ..CORRELATION FUNCTION/ LIQUID/ FREQUENCY DISTRIBUTION/ MEAN SQUARE DISPLACEMENT/ THEOR
70-AN-01 ANDRIESSE AR ..INTERMEDIATE SCATTERING FUNCTION ..4A NEUTRONS
70-AN-02 ANDRIESSE ARGON ..THEORY ..MODEL WHICH IS USEFUL FOR THE INTERPRETATION OF THE GAS DATA
70-BA-02 BARKER, KLEIN AR ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ ANHARMONICITY
70-BA-04 BATCHELDER, COLLINS+ AR ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION CURVE
70-BO-01 BOBETIC, BARKER AR ..THEORY/ SOLID/ LATTICE DYNAMICS/ ANHARMONICITY ..THREE-BODY FORCE/ SPECIFIC HEAT/ DEB
70-BR-04 BRUIN, HASMAN ARGON ..INTERMEDIATE SCATTERING FUNCTION/ STRUCTURE FACTOR/ GAS
70-GL-01 GLYDE NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY
70-GO-01 GOLDMAN, HORTON+ AR ..DISPERSION CURVE/ LIFETIME / THEORY/ SELF-CONSISTET APPROXIMATION
70-KJ-03 KITAGAWA AR/ KR/ POLYETHYLENE ..REVIEW/ LATTICE DYNAMICS
70-LE-02 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS/ ANHARMONICITY ..THERMODYNAMICAL PROPERTIES
70-LE-03 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS
70-PA-05 PATHAK, SINGWI THEORY-OF-FLUIDS/ ARGON ..THEORY/ LIQUID/ SCATTERIN LAW/ GAUSSIAN APPROXIMATION
70-SC-03 SCHNEIDER, BROUT+ AR ..THEORY
70-ZA-01 ZANDVELD, ANDRIESSE+ AR ..EXPERIMENT/ LIQUID/ VELOCITY AUTOCORRELATION FUNCTION ..MEAN SQUARE ATOMIC DISPL
71-BA-06 BARKER, FISHER+ THEORY-OF-FLUIDS/ AR ..COMPUTER-SIMULATION/ MONTE-CARLO ..THREE-BODY-INTERACTION
71-BA-08 BATCHELDER, HAYWOOD+ AR ..EXPERIMENT/ SOLID/ PHONON DISPERSION/ 4, 40, 77K
71-BA-09 BATCHELDER, COLLINS+ AR ..PHONON DISPERSION/ EXPERIMENT
71-CH-01 CHATURVEDI, BAIJAL AR ..THEORY/ SPACE-TIME CORRELATION FUNCTION/ NON-GAUSSIAN EFFECT
71-DE-01 DE-WETTE, FOWLER AR ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION FUNCTION ..THERMAL EXPANSION/ SPECI
71-DO-01 DORNER, EGGER AR ..EXPERIMENT/ PHONON DISPERSION/ SOUND VELOCITY/ ELASTIC CONSTANT
71-EG-01 EGELSTAFF, PAGE+ AR/ RB/ XE ..EXPERIMENT/ TRIPLET CORRELATION FUNCTION/ THEORY
71-GU-02 GUPTA AR/ KR/ XE ..THEORY/ ARGON/ KRYPTON/ XENON ..CAUCHY-RELATION
71-HU-01 HUELLER THEORY-OF-SOLIDS/ ARGON/ MEMORY FUNCTION/ LIQUID DYNAMICS
71-JA-01 JAIN, BHANDARI AR/ NA ..THEORY/ MEMORY FUNCTION/ LIQUID DYNAMICS
71-KL-01 KLEIN, BARKER+ THEORY-OF-SOLIDS/ AR ..4DK/ 40DK/ 77DK
71-LO-02 LOVESEY THEORY-OF-FLUIDS/ AR ..TRIPLE-PEAK-STRUCTURE
71-NO-01 NOLTING THEORY-OF-FLUIDS/ AL/ AR ..THEORY/ VAN-HOVE-CORRELATION-FUNCTION
71-VA-01 VAN-LOEF AR ..EXPERIMENT/ LIQUID/ SELF-DIFFUSION
71-WA-05 WASEDA, SUZUKI CS/ AR ..THEORY/ LIQUID ..PAIR POTENTIAL/ BORN-GREEN EQUATION
72-AN-01 ANDRIESSE, LEGRAND AR ..EXPERIMENT/ NEUTRON DIFFRACTION
72-BA-06 BARKER, GASKELL ARGON/ THEORY-OF-FLUIDS ..CORRELATION FUNCTION
72-DU-01 DUBOIS AR ..THEORY/ DISPERSION/ SCATTERING FUNCTION/ LIQUID DYNAMICS

72-FR-01 FRANCHETTI AR/ ZN ..THEORY/ RADIAL DENSITY FUNCTION
 72-HO-01 HORNER HE/ NE/ AR ..THEORY/ PHONON DISPERSION/ SELFCONSISTENT TREATMENT
 72-LA-01 LADO AR ..THEORY/ DENSITY AUTOCORRELATION FUNCTION
 72-PA-01 PAGE AR ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR/ NEUTRON DIFFRACTION/ 84,5DK
 72-PO-01 POLLOCK AR ..THEORY/ LENNARD-JONES HARMONIC CRYSTALS
 72-RO-03 ROWE, SKOELD AR ..EXPERIMENT/ LIQUID/ 85.2K/ SCATTERING FUNCTION
 72-SK-02 SKOELD, ROWE+ AR ..EXPERIMENT/ LIQUID/ SCATTERING LAW/ COHERENT AND INCOHERENT
 72-SK-03 SKOELD, ROWE+ AR ..EXPERIMENT/ INELASTIC SCATTERING FUNCTION/ 85,2DK
 72-TO-02 TOLPYGO, TROITSKAYA NE/ AR/ KR ..DISPERSION CURVE
 73-BA-01 BARKER, GASKELL AR ..THEORY/ DYNAMIC STRUCTURE FACTOR
 73-LO-04 LOVESEY THEORY-OF-FLUIDS/ AR ..GENERALIZED LANGEVIN EQUATION/ SCATTERING FUNCTION
 73-MA-01 MACHIDA, MURASE THEORY-OF-FLUIDS/ AR ..SIMPLE LIQUID/ RELAXATION TIME FOR LONGITUDINAL MODE
 73-SH-06 SHUKLA, SALZBERG AR ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ AXIALLY SYMMETRIC MODEL
 74-CH-06 CHUNG, YIP AR ..TEORY/ LIQUID ..LONGITUDINAL CURRENT CORRELATION FUNCTION
 74-FU-01 FUJII, LURIE+ AR ..EXPERIMENT/ SOLID/ DISPERSION RELATION/ TRIPLE AXIS NEUTRON SPECTROMETER/ FREQUENCY SPE
 74-JO-04 JORDAN AR/ THEORY-OF-FLUIDS ..THEORY/ LIQUID/ CORRELATION FUNCTION ..DIFFUSION COEFFICIENT
 74-OL-01 OLSSON, LARSSON C,H4/ AR ..NEUTRON SCATTERING/ DIFFUSION CONSTANT
 74-SC-04 SCHRODT, DAVIS AR ..THEORY/ LIQUID ..HARD AND SOFT PARTS SEPARATION OF POTENTIAL/ THERMAL CONDUCTIVITY/ SE
 74-TS-01 TSANG, MACLIN AR ..VELOCITY CORRELATION/ LIQUID
 75-BR-01 BROSTOW AR ..THEORY/ INTERMOLECULAR POTENTIAL
 75-FR-01 FRANCHETTI AR ..THEORY/ DISPERSION/ RADIAL DISTRIBUTION
 75-GA-01 GARG, GUPTA NE/ AR/ KR/ XE ..LATTICE DYNAMICS/ ANHARMONICITY/ CENTRAL PORCE MODEL/ DISPERSION RELATION
 75-GO-01 GOETZE, LUECKE THEORY-OF-FLUIDS/ AR ..CLASSICAL FLUID/ EXCITATION SPECTRUM
 75-JH-01 JHON, FORSTER THEORY-OF-FLUIDS/ AR ..THEORY/ DYNAMICAL STRUCTURE FACTOR
 75-YO-01 YOSHIDA, TAKENO THEORY-OF-FLUIDS/ AR ..CLASSICAL SIMPLE LIQUID/ DYNAMICAL STRUCTURE FACTOR/ DISPERSION CUR

2. 4 ARSENIC

AS

63-AR-01 ARNOLD, NERESON GA/ IN/ SB/ AS ..EXPERIMENT/ SCATTERING AMPLITUDE

2. 5 BARIUM

BA

73-PR-01 PRASAD, SRIVASTAVA BA/ SR/ CA ..THEORY/ SOLID / DISPERSION RELATION/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL

2. 6 BERYLLIUM

BE

51-EG-01 EGELSTAFF H/ BE/ V/ SE/ MO/ FE ..SOLID/ EXPERIMENT/ TRANSMISSION
 58-EG-01 EGELSTAFF BE/ MG/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ SOLID/ SIGMA(E, E-PRIME, THETA)/ SIGMA(E) ..O
 62-BR-04 BRUGGER BE/ BE, O/ GRAPHITE/ H2, O/ D2, O/ METHANE/ PROPANE/ TERPHENYL/ COMPILATIONS ..SCATTERING FUNCTION
 62-EG-04 EGELSTAFF H2, O/ D2, O/ GRAPHITE/ BE ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY ..EVALUATION
 62-EG-05 EGELSTAFF MG/ BE/ PB ..THEORY/ SOLID/ LIQUID/ SIGMA(E, E-PRIME, THETA) ..METAL/ LIQUID METAL
 62-SC-01 SCHMUNK, BRUGGER+ BE ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 63-SI-01 SINCLAIR BE/ BE, O ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ TOF ..293 DK
 64-FU-02 FULLWOOD, CAERTTNER+ BE ..NEUTRON SPECTRUM/ EXPERIMENT ..TIME AND BUCKLING DEPENDENT NEUTRON SPECTRUM
 64-HA-02 HAYWOOD, SINCLAIR GRAPHITE/ BE/ BE, O ..COMPILATION/ SCATTERING FUNCTION
 64-SC-01 SCHMUNK BE ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION ..COHERENT SCATTERING LAW/ ROOM TEMP.
 64-YO-02 YOUNG, KOPPEL BE/ MG/ ZN ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..ROOT SAMPLING METHOD
 65-BE-01 BEYSTER, KOPPEL D2, O/ H2, O/ POLYETHYLENE/ BE ..THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION
 65-DE-03 DE-WAMES, WOLFRAM+ BE/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION BELATION

65-SC-01 SCHMUNK, BRUGGER+ AL/ BE ..EXPERIMENT/ SCATTERING FUNCTION/ TOF/ FREQUENCY DISTRIBUTION ..POLYCRYSTAL/ COH
 65-YO-01 YOUNG, KOPPEL BE/ C/ H2,O/ D2,O/ C,H2/ H2/ D2 ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
 65-YO-04 YOUNG, KOPPER BE ..POLYCRYSTAL/ SCATTERING LAW
 66-AH-01 AHLERS BE ..EXPERIMENT/ DEBYE TEMPERATURE ..HEAT CAPACITY/ FROM 1.4 DK TO 30 DK
 66-SA-03 SAHM, VENKATARAMAN+ BE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-SC-03 SCHMUNK BE ..THEORY/ SOLID/ DISPERSION RELATION ..TEST OF SUM RULE
 66-SC-04 SCHMUNK BE ..EXPERIMENT/ DISPERSION RELATION ..(0110), (0110), (1120) DIRECTION/ DATA GIVEN IN GRAPHICA
 66-YO-01 YOUNG BE/ C/ BE,O ..SCATTERING FUNCTION/ THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DIS
 67-KO-02 KOPPEL, MARADUDIN BE ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..METAL
 67-KO-04 KOPPEL, YOUNG BE ..THEORY/ SOLID
 67-NA-01 NAKAHARA, KATO BE/ H2,O/ COMPUTER-CODES ..SOLID/ THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 68-BR-01 BROVMAN, KAGAN+ BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS
 68-CZ-01 CZACHOR MG/ ZN/ BE ..THEORY/ PHONON DISPERSION
 68-GL-01 GLAESER H2,O/ ZR-H/ GRAPHITE/ D2,O/ BE/ BE,O ..COMPILATION/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
 68-GL-02 GLAESER H2,O/ D2,O/ ZR-H/ GRAPHITE/ BE/ BE,O ..SCATTERING FUNCTION/ DIFFUSION PARAMETER/ COMPILATION
 68-JO-01 JOHNSTON BE ..THEORY/ SOLID/ HARMONIC APPROXIMATION/ SCATTERING LAW/ INCOHERENT APPROXIMATION/ FREQUENCY
 68-KO-02 KOPPEL, YOUNG BE ..LATTICE DYNAMICS/ SOLID/ THEORY/ DISPERSION RELATION
 68-PA-01 PAGE, HAYWOOD H2,O/ D2,O/ GRAPHITE/ BE/ BE,O ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR
 69-BO-06 BORGONOVI BE ..CALCULATION/ COHERENT/ POLYCRYSTAL/ SCATTERING LAW
 69-GI-02 GILAT, RIZZI+ BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..METAL/ MODEL POTENTIAL CALCULATION
 69-JO-01 JOHNSTON BE ..THEORY/ SOLID/ HARMONIC APPROXIMATION/ BORN-VON KARMAN MODEL/ SCATTERING LAW/ DEBYE-WALLER
 69-KI-01 KING-3RD, CUTLER BE ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ PHONON/ META
 69-ME-02 METZBOWER BE/ MG/ ZN ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..NONCENTRAL-FORCE/ FIVE FORC
 69-SA-05 SAHNI, VENKATARAMAN BE ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ OP# METHO
 70-BO-04 BORGONOVI, SPREVAK BE ..THEORY/ COHERENT SCATTERING/ POLYCRYSTAL
 70-FR-01 FRAAS, PORTO+ BE ..EXPERIMENT/ RAMAN SCATTERING
 70-KI-02 KING, CUTLER BE ..LATTICE DYNAMICS/ THEORY/ SOLID/ DISPERSION RELATION ..HEXAGONAL CLOSE-PACKED CRYSTAL/ P
 70-PR-01 PRAKASH, JOSHI BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..SINGLE-ORTHOGONALIZED-PLANE-WA
 70-SH-03 SHARAN, BAJPAI BE/ MG/ TL ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..HEXAGONAL METAL
 71-BE-03 BEZDEK, FINEGOLD ZN/ BE ..THEORY/ LATTICE DYNAMICS
 71-KU-02 KUSHWAHA BE/ TL ..NON-CENTRAL FORCE MODEL
 71-SR-01 SRINIVASAN, RAO MG/ ZN/ BE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ ANHARMONICS
 71-TH-01 THAPER, RAO+ BE ..EXPERIMENT/ PHONON DISPERSION/ MODIFIED AXIAL SYMMETRIC MODEL FITTING
 71-TR-05 TROTT, HEALD BE/ MG/ ZN ..THEORY/ PHONON DISPERSION AND SPECTRA/ HEXAGONAL LATTICE
 73-BO-04 BOSE, TRIPATHI+ BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ SPECIFIC HEAT/ CENTRAL AND NON
 73-KU-04 KUSHWAHA MG/ BE/ TL ..THEORY/ PHONON DISPERSION/ SHORT-RANGE CLOSED-SHELL AND IONIC INTERACTION
 73-RA-01 RAJPUT, KUSHWAHA BE/ MG ..THEORY/ PHONON DISPERSION/ KREB MODEL
 73-RO-03 ROY, DASANNACHARYA+ BE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 73-UP-02 UPADHYAYA, VERMA BE/ MG/ HO/ TL ..THEORY/ PHONON DISPERSION/ MODIFIED SHARMA-JOSHI MODEL
 75-KA-02 KANDA, KADOTANI+ BE ..TOTAL CROSS SECTION/ EXPERIMENT
 75-MA-05 MAURYA, SRIVASTAVA BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ HCP METAL/ TOYA THEORY
 75-UP-01 UPADHYAYA, SINHA BE/ MG/ Y/ HO ..THEORY/ EXPERIMENT/ DISPERSION RELATION ..BHATIA MODEL

2. 7 BISMUTH

BI

64-YA-02 YARNELL, WARREN+ BI ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-EG-01 EGELSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
 66-OE-01 OEHME, RICHTER CS/ BI/ NA ..STRUCTURE FACTOR
 67-CO-01 COCKING AL/ PB/ BI/ RB/ SN ..SOLID/ LIQUID/ DISPERSION RELATION/ EXPERIMENT
 67-SM-01 SMITH BI ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..CONST.# METHOD/ 75DK
 68-MA-10 MATEESCU, TEUTSCH+ N2/ BI ..EXPERIMENT/ TOF/ SCATTERING FUNCTION ..77,4DK FOR N2/ 560DK FOR BI

68-NO-01 NORTH, ENDERBY+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ..LIQUID METAL/ 340DC-1100D
 68-SO-01 SOSNOWSKI, BEDNARSKI+ BI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ CONST=0
 68-TU-01 TUNKELO, KUOPPAMAKI+ BI ..EXPERIMENT/ LIQUID/ SOLID/ DISPERSION RELATION ..280DC FOR LIQUID/ 262DC FOR SOL
 72-BU-01 BURENKOV, VALIEV+ BI ..EXPERIMENT/ ELASTIC CONSTANTS/ 300-544DK
 72-KA-05 KAMMER, CARDINAL+ BI/ SN ..EXPERIMENT/ ELASTIC CONSTANT

2. 8 BORON

B

64-AL-01 ALS-NIELSEN, DIETRICH HE/ B/ AU ..EXPERIMENT/ CROSS SECTION
 65-DO-05 DONALDSON, PASSELL+ B/ N/ O ..MIRROR REFLECTION/ SCATTERING AMPLITUDE
 73-FO-01 FOLTER I/ B ..THEORY/ DISPERSION FUNCTION/ BORN VON KARMAN MODEL

2. 9 BROMINE

BR

62-CA-01 CAGLIOTI, RICCI BR ..LIQUID/ EXPERIMENT
 63-CA-01 CAGLIOTI, ASCARELLI BR ..LIQUID/ EXPERIMENT
 63-CO-07 COOTE, HAYWOOD BR ..SCATTERING LAW/ EXPERIMENT/ LIQUID
 64-AN-01 ANTONINI, ASCARELLI+ BR ..EXPERIMENT/ LIQUID
 68-CA-02 CARPENTER, SCHAEFER BR/ C2.F6 ..SCATTERING THEORY
 73-MI-04 MISAWA, FUKUSHIMA+ BR/ NEUTRON-SCATTERING-IN-FLUIDS ..EXPERIMENT/ LIQUID/ T-O-F
 74-NI-02 NIIMURA BR ..ANALYSIS/ LIQUID STRUCTURE FACTOR

2. 10 BROMINE

BR2

67-CA-03 CARPENTER C2.F6/ BR2 ..SCATTERING LAW/ CORRELATION FUNCTION/ THEORY/ GAS/ MOLECULAR DYNAMICS ..TORSIONAL

2. 11 CADMIUM

CD

71-TO-01 TOUSSAINT CD ..EXPERIMENT/ PHONON DISPERSION/ X-RAY SCATTERING
 72-ME-04 MENON, RAO CD ..THEORY/ SOE.TOE/ THERMAL EXPANSION/ GRUNEISEN CONSTANT
 72-TO-04 TOUSSAINT, CHAMPIER CD ..X-RAY DIFFUSE SCATTERING/ 88DK/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECT

2. 12 CALCIUM

CA

72-GO-02 GOMPF, LAU+ PB/ AL/ CA ..EXPERIMENT/ PHONON SPECTRA/ COHERENT SCATTERING
 73-PR-01 PRASAD, SRIVASTAVA BA/ SR/ CA ..THEORY/ SOLID / DISPERSION RELATION/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL
 73-SW-01 SWAROOP, BOHRA+ CA/ SR ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ DEBYE TEMP./ SHARMA-JOSHI MODEL

2. 13 CARBON

C

65-YO-01 YOUNG, KOPPEL BE/ C/ H2.O/ D2.O/ C.H2/ D2 ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
 66-YO-01 YOUNG BE/ C/ BE.O ..SCATTERING FUNCTION/ THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DIS
 68-II-01 IIZUMI, AYAO C ..SIGMA (E)
 69-CO-04 COLLINS, HAYWOOD C ..COHERENT INELASTIC SCATTERING/ CARBON FIBERS

2. 14 CERIUM
 CE
 66-PA-03 PASKIN REVIEW-ARTICLES/ AR/ NA/ CE/ RB . . LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTOCORRELATION FU
2. 15 CESIUM
 CS
 66-OE-01 OEHME, RICHTER CS/ BI/ NA . . STRUCTURE FACTOR
 69-PR-02 PRAKASH, JOSHI LI/ NA/ K/ RB/ CS . . DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYN
 70-SI-04 SINGH, PRAKASH LI/ RB/ K/ CS/ . . THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION . . ALKALI METAL
 71-CO-04 COX, MINKIEWICZ CS . . EXPERIMENT/ SCATTERING AMPLITUDE
 71-KU-04 KUSHWAHA, SINGH THEORY-OF-SOLIDS/ CS . . THEORY/ PHONON DISPERSION
 71-WA-05 WASEDA, SUZUKI CS/ AR . . THEORY/ LIQUID . . PAIR POTENTIAL/ BORN-GREEN EQUATION
 72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS . . THEORY/ DISPERSION CURVE
 72-SI-03 SINGH, PRAKASH LI/ NA/ K/ RB/ CS . . THEORY/ PHONON DISPERSION
2. 16 CHLORINE
 CL
 75-GR-01 GROUT, LEECH+ C, S2/ CL . . THEORY/ LATTICE DYNAMICS/ SOLID
2. 17 CHROMIUM
 CR
 65-MO-01 MOELLER, MACKINTOSH CR . . EXPERIMENT/ SOLID/ DISPERSION RELATION . . TRIPLE AXIS SPECTROMETER
 67-GI-02 GILAT CR/ FE/ W/ THEORY-OF-SOLIDS . . THEORY/ PHONON SPECTRA/ BCC METALS
 70-RJ-01 RICE, HALPERIN CR . . THEORY/ LATTICE VIBRATION . . FERMI SURFACE/ ELECTRON SUSCEPTIBILITY/ EFFECT OF THE KOHN
 71-SH-03 SHAW, MUHLESTEIN CR . . EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ KOHN EFFECT/ FREQUENCY SPECTRA
 71-SH-04 SHAW, MUHLESTEIN CR . . EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ KOHN ANOMARY
 71-SO-01 SOKOLOFF CR . . THEORY
 72-MU-01 MUHLESTEIN, GUERMEN+ CR . . EXPERIMENT/ PHONON DISPERSION/ 300DK TO 503DK
 74-PA-03 PAL CR . . THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ DEBYE-WALLER FACTOR/ DISPERSION RELATION
2. 18 COBALT
 CO
 70-CZ-01 CZACHOR MG/ CO/ Y . . THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ BORN-VON KARMAN MODEL . . AXIAL
 70-CZ-02 CZACHOR, RAJCA MG/ CO/ Y . . CALCULATION/ HEXAGONAL METAL/ FREQUENCY SPECTRA
 74-KO-01 KOESTER, KNOPF+ CO . . SCATTERING AMPLITUDE
 74-SI-02 SINGH, KUSHWAHA CO . . THEORY/ PHONON DISPERSION/ DEBYE TEMP.
2. 19 COPPER
 CU
 58-TO-01 TOYA CU . . THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 61-CR-01 CRIBIER, JACROT+ CU . . EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 62-LE-01 LEHMAN, WOLFRAM+ CU/ AL/ ZR-H . . THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 62-SO-01 SOSNOWSKI, KOZUBOWSKI CU . . EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 63-MA-02 MALISZEWSKI, SOSNOWSKI+ ZN/ CU/ MG . . EXPERIMENT
 64-VI-01 VINTAIKIN, GORBACHEV+ CU . . DISPERSION RELATION/ SOLID/ EXPERIMENT
 65-BL-01 BLECH, AVERBACH V/ CU . . THEORY/ MULTIPLE SCATTERING
 65-SI-06 SINHA, SOUIRES CU . . EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ TOF

65-SL-01 SLATER V/ SI/ CU/ NEUTRON-SCATTERING-IN-SOLIDS ..HARMONIC APPROXIMATION/ DEBYE APPROXIMATION
 66-BU-01 BUHRER, SCHNEIDER+ CU ..EXPERIMENT/ PHONON DISPERSION
 66-DE-01 DE-WETTE, COTTERILL+ CU ..THEORY/ PHONON DISPERSION
 66-SI-02 SINHA CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RERATION/ TOF ..ROOM TEMPERATURE
 67-GU-01 GUPTA, SHARMA CU/ AU ..LATTICE DYNAMICS/ THEORY
 67-NI-01 NICKLOW, GILAT+ CU ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION/ FREQUENCY SPECTRUM ..3-AXIS SPECTRUM
 67-SV-02 SVENSSON, BROCKHOUSE+ CU ..EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ FORCE ANALYSIS
 67-YU-01 YUEN, VARHNI CU ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION/ FREQUENCY SPECTRUM ..FCC CUBIC METAL
 68-BU-01 BUHRER, SCHNEIDER+ CU ..PHONON DISPERSION
 68-NI-03 NILSSON CU ..EXPERIMENT/ LATTICE VIBRATION/ DISPERSION RELATION ..KOHN EFFECT
 68-TA-01 TAGLAUER CU/ SCATTERING-BY-DEFECTS ..EXPERIMENT/ SMALL ANGLE SCATTERING/ DISLOCATION IN COLD WORKED CRYSTALS
 69-BE-01 BEHARI, TRIPHATHI CU ..DISPERSION RELATION/ THEORY ..MODIFIED ANGULAR FORCE MODEL/ ELECTRON-ION INTERACTION
 69-BE-02 BEHARI, TRIPHATHI CU ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED ANGULAR FORCE MODEL/ ELECTRON-ION INTERACTION
 69-KR-01 KREBS, HOELZL LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES ..PSEUDO-ION APPROXIMATION/ FITTING TO
 70-BE-03 BEHARI, TRIPHATHI CU/ AG/ AU ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..NON-CENTRAL FORCE MODEL/ ELECTRON-ION INTERACTION
 70-BU-01 BUHRER CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ MODIFIED AXIALLY SYMMETRIC MODEL/ EFFECT OF CONDUCTION
 71-BA-04 BAJPAI, NEELAKANDAN CU ..THEORY/ DISPERSION CURVE/ MODIFIED AXIALLY SYMMETRIC MODEL/ EFFECT OF CONDUCTION
 71-MI-01 MILLER, BROCKHOUSE PD/ CU ..EXPERIMENT/ CALCULATION/ NEUTRON SCATTERING/ DISPERSION CURVE/ FREQUENCY SPECTRUM
 71-MO-01 MOSCINSKI, NAWALANY THEORY-OF-FLUIDS/ CU
 71-SH-01 SHARMA, SINGH CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ METAL
 71-SH-07 SHUKLA, CAVALHEIRO CU ..THEORY/ METAL/ PHONON DISPERSION/ DE-LAUNAY MODEL
 71-SI-01 SINGH, SHARMA CU/ AG/ AU/ AL/ NI/ NA/ CR/ FE ..THEORY/ DEBYE-WALLER FACTOR
 72-PR-01 PRAKASH, JOSHI CU ..THEORY/ DISPERSION RELATION
 73-NI-04 NILSSON, ROLANDSON CU ..EXPERIMENT/ PHONON DISPERSION/ BHATIA MODEL
 73-SH-04 SHUKLA, SALZBERG CU ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ FOURTH NEIGHBOURS FORCE
 73-SH-07 SHUKLA, CAVALHEIRO CU/ AG/ AL/ NI/ PD ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ FOURTH NEIGHBOURS FORCE
 73-SH-10 SHUKLA, CLOSS CU ..THEORY/ PHONON DISPERSION
 73-SH-11 SHUKLA, CLOSS CU ..THEORY/ PHONON DISPERSION/ ANGULAR FORCE MODEL
 73-SI-01 SINGH, PRAKASH CU ..THEORY/ PHONON DISPERSION/ LEHMAN AND KREB MODEL
 74-CO-06 COWLEY, SHUKLA CU ..ANHARMONICITY/ THERMODYNAMIC QUANTITIES
 74-GO-02 GOEL, PANDAY+ CU ..THEORY/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANT/ DISPERSION RELATION ..ELECTRO
 75-CL-01 CLOSS, SHUKLA CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ SCREENED SHELL MODEL
 75-FI-01 FIELEK CU ..THEORY/ PHONON DISPERSION/ METAL/ MODEL CALCULATION
 75-FI-02 FIELEK CU/ NI ..THEORY/ PHONON DISPERSION/ METAL/ MODEL CALCULATION
 75-GO-02 GOPALARAO, MURTHY COPPER/ GOLD/ SILVER ..LIQUID NOBLE METAL ..STRUCTURE FACTOR
 75-KU-01 KUMAR, TOLPADI COPPER/ SODIUM ..DISPERSION RELATION
 75-KU-02 KUMAR, TOLPADI CU ..MODEL CALCULATION/ PHONON DISPERSION

2. 20 DEUTERIUM

D

64-ST-01 STEHN, GOLDBERG+ H/ D/ H2/O/ D2/O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPILATIONS ..S
 65-CH-02 CHEN, EDER+ NEON/ ARGON/ DEUTERIUM/ CARBON TETRAFLUORIDE ..EXPERIMENT/ LIQUID/ SIGMA(THETA,E)
 68-TA-02 TALHOUK, HARRIS+ D ..EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS ..20DK/ NEUTRON DIFFRACTION/ RADIAL DISTRIBUTION
 70-KL-02 KLEIN, KOEHLER D ..LATTICE DYNAMICS/ SOLID
 71-NI-02 NIELSEN, MOLLER D ..EXPERIMENT/ LATTICE DYNAMICS/ 5DK/ DISPERSION RELATION
 71-NI-03 NIELSEN, MOELLER DEUTERIUM ..EXPERIMENT/ ORTHO-DEUTERIUM/ PHONON DISPERSION/ SOLID AT 5DK/ ELASTIC CONSTAN
 73-NI-02 NIELSEN H/ D ..EXPERIMENT/ PHONON DISPERSION/ PARA-H,ORTHO-D/ TEMPERATURE,PRESSURE EFFECT

2. 21 DEUTERIUM

D2

64-YO-01 YOUNG, KOPPEL H2/ D2 ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING CROSS SECTION ..20,4DK
 64-YO-04 YOUNG, KOPPEL H2/ D2 ..THEORY/ MOLECULAR DYNAMICS/ LIQUID ..SCATTERING CROSS SECTION
 70-KL-03 KLUMP, SCHNEPP+ H2/ D2 ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID

2. 22 DIAMOND

63-MJ-01 MICHAELL, HARDY+ DIAMOND ..FREQUENCY SPECTRUM/ LATTICE DYNAMICS
 64-YA-01 YARNELL, WARREN+ DIAMOND ..EXPERIMENT/ DISPERSION RELATION
 65-WA-02 WARREN, WENZEL+ DIAMOND ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS
 65-WA-03 WARREN DIAMOND ..THEORY/ PHONON DISPERSION
 66-DO-02 DOLLING, COWLEY GE/ SI/ DIAMOND/ GA, AS ..COHERENT INELASTIC SCATTERING STUDIES/ PHONON DISPERSION
 66-KU-01 KUCHER, NECHIPORUK DIAMOND ..THEORY/ PHONON DISPERSION
 67-AG-01 AGGARWAL DIAMOND ..THEORY/ PHONON DISPERSION/ TNO-NEIGHBOUR BORN-VON KARMAN MODEL
 67-BL-01 BLANCHARD, VARSHNI DIAMOND ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION ..SHELL MODEL CALCULATION/ DEBY
 67-MC-02 MCMURRY, SOLBRIG-JR+ DIAMOND ..LATTICE DYNAMICS/ DISPERSION RELATION/ THEORY
 67-PE-02 PECKHAM DIAMOND ..PHONON DISPERSION RELATION
 67-WA-02 WARREN, YARNELL+ DIAMOND ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION
 68-MA-02 MARADUDIN, VOSKO DIAMOND ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES/ SPACE GROUP/ IRREDUCIBLE
 69-MO-01 MONTGOMERY ZN,S/ DIAMOND/ SR, TI, O3 ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES
 71-JE-03 JEX DIAMOND/ GE/ SI ..THEORY/ PHONON DISPERSION/ THERMAL PROPERTIES/ ANHARMONIC INTERACTION
 72-TU-01 TUBINO, PISERI+ DIAMOND/ SI/ GE/ SN ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL
 74-JO-02 JOHNSON, MOORE THEORY-OF-SOLIDS/ DIAMOND/ SI ..PHONON DISPERSION/ BOND CHARGE MODEL

2. 23 ERBIUM ER

73-RA-03 RAO, MENON ER ..THEORY/ PHONON DISPERSION/ KEATING METHOD/ THERMAL EXPANSION/ PHONON DENSITIES

2. 24 GADOLINIUM GO

74-RA-04 RAO, MENON GADOLINIUM ..DISPERSION CURVE/ THEORY

2. 25 GALLIUM GA

63-AR-01 ARNOLD, NERESON GA/ IN/ SB/ AS ..EXPERIMENT/ SCATTERING AMPLITUDE
 67-RA-06 RAO, DASANNACHARYA+ GA ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
 69-WA-01 WAEBER GA ..THEORY/ LATTICE DYNAMICS/ ..GROUP-THEORETICAL ANALYSIS
 69-WA-02 WAEBER GA ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ TRIPLE-AXIS SPECTROMETER ..77DK
 70-VA-01 VADOVIC, COLVER AG/ GA/ HG/ NA/ PB/ SN/ ZN ..THEORY/ SELF-DIFFUSION CONSTANT
 72-AN-03 ANTONINI, CORCHIA GA ..EXPERIMENT/ LIQUID STRUCTURE/ MULTIPLE SCATTERING
 72-AN-05 ANTONINI, CORCHIA GA ..DYNAMICS OF LIQUIDS
 72-WA-01 WAEBER GA/ THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..METAL/ ORTHORHOMBIC
 73-8R-01 BREBNER, JANDL+ GA/ SE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ INELASTIC NEUTRONSCATTERING
 73-LO-01 LOEFFLER GALLIUM ..EXPERIMENT/ SCATTERING LAW/ LIQUID/ 305,1253K
 73-PA-01 PAGE, SAUNDERSON+ GA ..STRUCTURE FACTOR/ LIQUIDS ..QUASI-ELASTIC PEAK

2. 26 GERMANIUM GE

57-BR-01 BROCKHOUSE, IYENGAR GE ..EXPERIMENT/ PHONON DISPERSION
58-BR-04 BROCKHOUSE, IYENGAR GE ..EXPERIMENT/ DISPERSION RELATION
59-BR-02 BROCKHOUSE GE ..EXPERIMENT/ DISPERSION RELATION
59-BR-03 BROCKHOUSE GE/ SI ..EXPERIMENT/ DISPERSION RELATION
59-GH-01 GHOSE, PALEVSKY+ GE ..EXPERIMENT/ DISPERSION RELATION
63-BR-03 BROCKHOUSE, BECKA+ GE ..EXPERIMENT/ LATTICE DYNAMICS
63-BR-04 BROCKHOUSE, DASANNACHAYA GE ..EXPERIMENT/ DISPERSION RELATION ..TEMPERATURE EFFECTS
65-DO-04 DOLLING GE/ SI ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
65-PO-02 POPE GE ..LATTICE DYNAMICS/ SOLID/ THEORY
66-DO-02 DOLLING, COWLEY GE/ SI/ DIAMOND/ GA,AS ..COHERENT INELASTIC SCATTERING STUDIES/ PHONON DISPERSION
71-JE-03 JEX DIAMOND/ GE/ SI ..THEORY/ PHONON DISPERSION/ THERMAL PROPERTIES/ ANHARMONIC INTERACTION
71-NI-05 NILSSON, NELIN GE ..EXPERIMENT/ DISPERSION CURVE/ LATTICE DYNAMICS/ 800K/ LINE WIDTH
72-JE-01 JEX GE/ SI ..THEORY/ PHONON/ ANHARMONIC INTERACTION
72-KR-01 KRESS GE/ SN ..THEORY/ PHONON DISPERSION/ MODIFIED SHELL MODEL
72-NE-01 NELIN, NILSSON GE ..EXPERIMENT/ CALCULATION/ PHONON DENSITY
72-NI-03 NILSSON, NELIN GE/ SI ..LATTICE DYNAMICS/ NEUTRON SPECTROSCOPY
72-PA-03 PANDY, DAYAL GE ..THEORY/ LATTICE/ DYNAMICS/ DISPERSION RELATION
72-TU-01 TUBINO, PISERI+ DIAMOND/ SI/ GE/ SN ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL
73-PA-05 PANDEY, DAYAL SI/ GE ..THEORY/ PHONON DISPERSION/ CLARK-GAZIS-WALLIS TYPE ANGULAR FORCE MODEL/ FOUR PARAME
73-TH-01 THORPE GE/ SI ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..BORN MODEL
74-AX-02 AXE, KEATING+ GE ..EXPERIMENT/ FREQUENCY SPECTRA/ AMORPHOUS MATERIAL
74-NE-01 NELIN, NILSSON GE ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..DEFORMATION DIPOLE MODEL/ SHELL DIP
74-NE-02 NELIN, NILSSON GE ..EXPERIMENT/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ CRYSTAL SPECTROMETER
74-NE-04 NELIN, NILSSON GE ..THEORY/ SOLID/ LATTICE DYNAMICS/ HARMONIC APPROXIMATION/ DISPERSION RELATION ..SHELL DIPOL
74-NE-05 NELIN, NILSSON GE ..EXPERIMENT/ ON RELATION ..DOUBLE MONOCHROMATOR CRYSTAL SPECTROMETER
74-WE-01 WEAIRE, ALBEN GE ..THEORY/ NEUTRON SPECTRUM ..AMORPHOUS SOLID
75-AL-01 ALBEN, WEAIRE+ SI/ GE ..EXPERIMENT/ RAMAN, IR SPECTRA/ PHONON SPECTRA/ NUMERICAL CALCULATION/ PREDICTION FO
75-CH-02 CHEN, VETELINO+ GE/ SI ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION ..AMORPHOUS SOLID/ RIGID ION MODEL

2, 27 GOLD AU

64-AL-01 ALS-NIELSEN, DIETRICH HE/ B/ AU ..EXPERIMENT/ CROSS SECTION
67-GU-01 GUPTA, SHARMA CU/ AU ..LATTICE DYNAMICS/ THEORY
70-8E-03 BEHARI, TRIPATHI CU/ AG/ AU ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..NON-CENTRAL FORCE MODEL/ EL
71-SH-01 SHARMA, SINGH CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ METAL
71-SI-01 SINGH, SHARMA CU/ AG/ AU/ AL/ NI/ NA/ CR/ FE ..THEORY/ DEBYE-WALLER FACTOR
71-SW-01 SWAROOP, TIWARI AU ..THEORY/ PHONON DISPERSION
73-LY-01 LYNN, SMITH+ AU ..DISPERSION RELATION/ INELASTIC NEUTRON SCATTERING/ FREQUENCY DISTRIBUTION/ EXPERIMENT
73-SI-01 SINGH, PRAKASH CU/ AG/ AU ..THEORY/ PHONON DISPERSION
74-KH-01 KHANNA, UPADHYAY+ AU ..DISPERSION-CURVES
74-SI-01 SIGH, PRAKASH AU ..DISPERSION-CURVES
75-CL-01 CLOSS, SHUKLA CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ SPECIFIC HEAT
75-GO-02 GOPALARAO, MURTHY COPPER/ GOLD/ SILVER ..LIQUID NOBLE METAL ..STRUCTURE FACTOR
75-NA-01 NAND, TRIPATHI AU ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL
75-TI-01 TIWARI AU ..THEORY/ PHONON DISPERSION/ KREB MODEL

2, 28 GRAPHITE

51-KO-01 KOMATSU, NAGAMIYA GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION

2, 28 GRAPHITE

51-KO-01 KOMATSU, NAGAMIYA GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION

53-KR-01 KRAMHANSL, BROOKS GRAPHITE ..THEORY/ SOLID/ LATTICE DYNAMICS
53-RO-01 ROSENSTOCK GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
55-JA-01 JACROT, NETTER+ GRAPHITE/ H2.O/ D2.O ..EXPERIMENT/ LIQUID/ SOLID
55-KO-01 KOMATSU GRAPHITE ..THEORY/ LATTICE DYNAMICS ..SPECIFIC HEAT
56-BA-01 BALDOCK GRAPHITE ..FREQUENCY SPECTRUM/ THEORY/ SOLID/ LATTICE DYNAMICS
58-MC-01 YOSHIMORI, KITANO GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
58-YO-01 MCHRYNOLS, NELKIN+ H2.O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE ..EXPERIMENT/ THEORY/ LIQUID/ SOLID
61-EG-02 EDELSTAFF, COCKING GRAPHITE ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY SPECTRUM ..24DC/ 336DC/ 425DC/ 610DC/
61-PA-03 PARKS GRAPHITE ..LATTICE DYNAMICS
61-PA-04 PARKS GRAPHITE ..THEORY ..SCATTERING KERNELS
61-WO-01 WOODS, BROCKHOUSE+ GRAPHITE/ H2.O/ D2.O/ ZR-H/ LI.H/ NA.H/ N.H4.CL ..EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE
62-BR-04 BRUGGER BE/ BE.O/ GRAPHITE/ H2.O/ D2.O/ METHANE/ PROPANE/ TERPHENYL/ COMPILATIONS ..SCATTERING FUNCTION
62-DO-01 DOLLING, BROCKHOUSE GRAPHITE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
62-EG-02 EDELSTAFF GRAPHITE/ H2.O/ D2.O/ COMPILATIONS ..SCATTERING LAW ..24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR
62-EG-04 EDELSTAFF H2.O/ D2.O/ GRAPHITE/ BE ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY ..EVALUATION
62-KO-04 KOTHARI GRAPHITE ..DIFFUSION PARAMETER
62-MA-01 MACDOUGALL GRAPHITE ..THEORY/ NEUTRON SPECTRUM/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
62-PA-01 PARKS, BEYSTER+ GRAPHITE ..EXPERIMENT/ NEUTRON SPECTRA
62-SC-02 SCHOFIELD H2.O/ GRAPHITE ..THEORY/ COMPILATION
63-EG-04 EDELSTAFF, HARRIS GRAPHITE ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ ..HIGH FREQUENCY MODE/ 950DC
63-HA-04 HAYWOOD, THORSON GRAPHITE ..EXPERIMENT/ FREQUENCY DISTRIBUTION
64-HA-02 HAYWOOD, SINCLAIR GRAPHITE/ BE/ BE.O ..COMPILATION/ SCATTERING FUNCTION
64-KE-01 KELLY GRAPHITE ..THEORY/ SOLID/ LATTICE DYNAMICS
64-KO-01 KOMATSU GRAPHITE ..THEORY/ LATTICE DYNAMICS ..SPECIFIC HEAT
64-WI-01 WIKNER, JOANOU+ GRAPHITE ..EXPERIMENT/ LATTICE VIBRATION/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION/ NEU
64-WI-02 WILSON GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
65-WH-01 WHITEMORE POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI
65-WH-02 WHITEMORE GRAPHITE ..EXPERIMENT
65-YO-02 YOUNG, KOPPEL GRAPHITE ..THEORY/ FREQUENCY SPECTRUM/ BORN-VON KARMAN MODEL
65-YO-03 YOUNG, WIKNER+ GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ NEUTRON SPECTRUM ..SCATTERING
66-BE-06 BEYSTER, NEILL+ H2.O/ D2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATT
66-ME-01 MEERS GRAPHITE ..EXPERIMENT/ LATTICE DYNAMICS
66-WH-02 WHITEMORE D2.O/ GRAPHITE ..EXPERIMENT/ SCATTERING FUNCTION ..24DC
66-WO-01 WORDEN, PURCELL+ H2.O/ D2.O/ GRAPHITE ..NEUTRON SPECTRUM/ SIGMA(E,E-PRIME)
67-GL-01 GLAESER REVIEW-ARTICLES/ H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATT
67-PA-01 PAGE GRAPHITE ..SCATTERING FUNCTION/ EXPERIMENT ..HIGH TEMPERATURE
67-WH-01 WHITEMORE D2.O/ H/ GRAPHITE ..CROSS SECTION EVALUATION/ LIQUID/ SOLID/ EXPERIMENT/ SCATTERING FUNCTION
68-BO-06 BOWMAN, KRUMHANSL GRAPHITE ..THEORY/ LATTICE DYNAMICS
68-CA-04 CARVALHO GRAPHITE ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT ..TOF/ 533DK
68-ER-01 EREMEEV, MOSTOVOI+ GRAPHITE ..SCATTERING FUNCTION/ EXPERIMENT ..15DC/ 490DC/ 1000DC
68-GL-01 GLAESER H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..COMPILATION/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
68-GL-02 GLAESER H2.O/ D2.O/ ZR-H/ GRAPHITE/ BE/ BE.O ..SCATTERING FUNCTION/ DIFFUSION PARAMETER/ COMPILATION
68-PA-01 PAGE, HAYWOOD H2.O/ D2.O/ GRAPHITE/ BE/ BE.O ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR
68-PA-02 PAGE GRAPHITE ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION ..1800DK
68-WH-01 WHITEMORE GRAPHITE ..CROSS SECTION EVALUATION/ EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION
69-CO-03 COLLINS, HAYWOOD GRAPHITE ..EXPERIMENT/ DISPERSION CURVE ..ALONG C-AXIS
69-TA-02 TAKAHASHI GRAPHITE ..THEORY/ LATTICE DYNAMICS/ SCATTERING FUNCTION ..COHERENT SCATTERING/ COMPUTER CALCUL
70-CO-04 CONN GRAPHITE ..THEORY/ SPECTRAL DENSITY/ SIGMA(E)
71-RO-07 ROY GRAPHITE ..EXPERIMENT/ TEMPERATURE EFFECT/ PHONON FREQUENCY
72-BU-02 BUTLAND, MADDISON GRAPHITE ..REVIEW/ EVALUATION/ SPECIFIC HEAT
72-BU-05 BUTLAND GRAPHITE ..SCATTERING MATRICES/ PHONON SPECTRUM/ SPECIFIC HEAT/ ASSUMING ISOTROPIC STRUCTURE
72-GA-01 GAUSTER GRAPHITE ..THEORY/ SOLID ..ELASTIC CONSTANTS

72-NI-01 NICKLOW, WAKABAYASHI+ GRAPHITE ..PHONON DISPERSION
 73-NA-01 NAKAHARA GRAPHITE/ REVIEW-ARTICLES ..THEORY, SCATTERING LAW/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ D
 73-RO-01 ROSS GRAPHITE ..EXPERIMENT/ T-O-F/ PHONON DISPERSION/ 20, 1000 AND 1920DC
 74-MA-02 MANI, RAMANI GRAPHITE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..TENSOR FORCE MODEL
 74-RA-01 RAFIZADEH GRAPHITE ..THEORY/ BORN-VON KARMAN MODEL/ DISPERSION RELATION/ MEAN SQUARE DISPLACEMENT/ CENTRA

2, 29 HAFNIUM

HF

70-SH-05 SHARAN, BAJPAI ZR/ HF ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE
 72-KU-04 KUSHAWA, KUMAR TI/ HF/ Y ..THEORY/ PHONON DISPERSION/ H.C.P. TRANSITION METAL

2, 30 HELIUM

HE

57-CO-01 COHEN, FEYNNANN HE ..THEORY/ SCATTERING BY ROTON
 57-EG-01 EGELSTAFF, LONDON HE ..LIQUID/ EXPERIMENT / SIGMA(E)/ SIGMA(E, THETA) ..LIQUID HELIUM
 57-PA-01 PALEVSKY, OTNES+ HE ..EXPERIMENT/ ROTON
 58-HE-01 HENSHAW HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
 58-PA-01 PALEVSKY, OTNES+ HE ..EXPERIMENT/ ROTON/ DISPERSION RELATION
 58-YA-01 YARNELL, ARNOLD+ HE ..EXPERIMENT/ ROTON/ DISPERSION CURVE/ LIQUID ..1.4DK
 59-YA-01 YARNELL, ARNOLD+ HE ..EXPERIMENT/ LIQUID/ ROTON EXCITATION/ DISPERSION RELATION ..1.1DK
 60-CO-01 COHEN HE ..THEORY/ LIQUID
 60-CO-02 COHEN HE ..THEORY, NEUTRON SCATTERING, THERMODYNAMICS
 61-HE-03 HENSHAW, WOODS HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION ..1.78-4.21DK
 61-PA-02 PALEVSKY HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
 62-PA-02 PARRY, TURNER HE/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERING LAW/ CORRELATION FUNCTION ..LI
 63-BR-02 BROCKHOUSE, BERGSMAN SN/ H2, O/ AR/ HE ..EXPERIMENT/ LIQUID
 64-AL-01 ALS-NIELSEN, DIETRICH HE/ B/ AU ..EXPERIMENT/ CROSS SECTION
 64-ST-01 STEHN, GOLDBERG+ H/ D/ H2, O/ D2, O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPILATIONS ..S
 65-BO-02 BORST HE ..THEORY
 65-GL-04 GLASSGOLD HE ..THEORY
 65-WO-03 WOODS HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
 67-BI-02 BITTER, GISSLER+ HE ..EXPERIMENT/ PHONON DISPERSION
 67-BI-03 BITTER, GISSLER+ HE ..PHONON DISPERSION
 67-DE-03 DEWETTE, NOSANOW+ HE ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
 67-KI-04 KITCHENS, MINKIEWICZ+ HE ..SOLID/ EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..THREE CRYSTAL SPECTR
 67-KO-01 KOEHLER HE ..THEORY/ LATTICE DYNAMICS
 67-LI-01 LIPSCHULTZ, MINKIEWICZ+ HE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 67-MO-02 MORLEY HE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..HCP PHASE/ ODK/ DE
 67-PL-02 PLUMMER, SUMMERFIELD+ HE ..THEORY/ DISTRIBUTION FUNCTION/ GAS ..DIFFERENTIAL SCATTERING CROSS SECTION/ 5-6
 68-BR-05 BRUN, SINHA+ HE ..EXPERIMENT/ DISPERSION RELATION ..4.2DK
 68-CO-09 COWLEY, WOODS HE ..LIQUID/ EXPERIMENT/ SCATTERING FUNCTION ..1.1DK/ 4.2DK
 68-EC-01 ECKSTEIN, VARGA AR/ NE/ HE ..THEORY/ LIQUID/ STATISTICAL MECHANICS
 68-FR-01 FRANCHETTI, MAZZA HE ..THEORY/ MONATOMIC LIQUID/ RADIAL DENSITY AND SCATTERIN FUNCTION
 68-MI-04 MINKIEWICZ, KITCHENS+ HE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..1.03DK
 68-SH-01 SHAH HE ..LIQUID/ EXPERIMENT ..HE-3/ X-RAY SCATTERING/ HIGH-FREQUENCY-SOUND VELOCITY
 68-WO-01 WOODS, COWLEY HE ..EXPERIMENT/ LIQUID/ TOF/ CONST.-0 ..1.1DK-4.2DK
 69-FE-03 FERNANDEZ, GERSCH HE ..GROUND STATE/ THEORY ..ENERGY WIDTH OSCILLATION
 69-KL-01 KLEMENS, LIPSCHULTZ HE ..SOLID/ THEORY
 69-MO-03 MORLEY, KLIEWER HE ..DISPERSION RELATION/ THEORY/ FREQUENCY DISTRIBUTION/ SOLID ..SOUND VELOCITY/ SELF-CON
 70-GL-02 GLYDE, COWLEY HE ..ANHAMONCITY

70-GO-02 GOLDMAN, HORTON+ NE/ HE ..SELF-CONSISTENT APPROXIMATION/ DISPERSION CURVE/ LIFE TIME/ THEORY
70-HA-02 HARLING HE ..EXPERIMENT/ EXCITATION CURVE
70-HO-01 HORNER HE ..THEORY/ PHONON/ SPECIFIC HEAT
70-KE-05 KERR, PATHAK+ HELIUM ..THEORY/ LIQUID/ SCATTERING LAW/ GAUSSIAN APPROXIMATION ..LARGE MOMENTUM TRANSFER/ 0
70-LA-03 LAI, SIM+ HE ..DISPERSION CURVE/ THEORY
70-LA-04 LAI, SIM+ HE ..THEORY/ PHONON DISPERSION/ LIQUID
70-MA-04 MARIS, MASSEY HE ..THEORY/ PHONON DISPERSION
70-PI-02 PINES, WOO HE ..THEORY/ STRUCTURE FACTOR/ PHONON DISPERSION/ LIQUID
70-PU-01 PUFF, TENN HE ..THEORY
70-SE-01 SEARS HE ..THEORY/ LIQUID
70-WE-04 WERTHAMER HELIUM ..THEORY/ SOLID ..PHONON RELAXATION
70-WO-01 WOODS, COWLEY HE ..SUPERFLUID
71-CO-02 COWLEY, WOODS HE ..EXPERIMENT/ LIQUID/ PHONON DISPERSION
71-GI-01 GILLESSEN, BIEM HE ..THEORY/ PHONON DAMPING/ SOLID HE
71-GL-01 GLYDE, KHANNA HE ..THEORY
71-HA-05 HARLING HE ..DYNAMICS OF LIQUID
71-RE-01 REESE, SINHA+ HE ..EXPERIMENT/ PHONON DISPERSION/ 4.2K/ PHONON DENSITY
71-SP-01 SPCBITO HE ..THEORY
71-TR-02 TRAYLOR, STASSIS+ HE ..EXPERIMENT/ PHONON DISPERSION/ FCC HE
72-DI-01 DIETRICH, GRAF+ HE ..EXPERIMENT/ LIQUID/ ROTON DISPERSION/ LINE WIDTH
72-DR-02 DROZ HE ..LIQUID DYNAMICS
72-GI-01 GILBERT HE ..FOURIER TRANSFORM OF SCATTERED INTENSITY/ PROBABILITY DENSITY
72-GL-02 GLYDE, KHANNA HE ..EXPERIMENT/ LIQUID/ ROTON DISPERSION/ LINE WIDTH
72-HA-05 HAVLIN, LUBAN HE ..THEORY
72-HO-01 HORNER HE/ NE/ AR ..THEORY/ PHONON DISPERSION/ SELFCONSISTENT TREATMENT
72-HO-02 HORNER THEORY-OF-SOLIDS/ HE/ NE ..QUANTUM CRYSTALS/ PHONON SPECTRUM
72-HO-03 HORNER HE/ NE ..THEORY/ SCATTERING FUNCTION/ SINGLE-PARTICLE EXCITATION/ QUANTUM CRYSTAL
72-KE-01 KERR, PATAK+ HE ..THEORY
72-KI-02 KITCHENS, SHIRANE+ HE ..EXPERIMENT/ SOLID HE/ SINGLE PARTICLE EXITATIONS
72-KO-01 KOEHLER, WERTHAMER HE ..THEORY/ DISPERSION RELATION
72-MO-01 MOOK, SCHERM+ HE ..EXPERIMENT/ HIGH ENERGY NEUTRON SCATTERING
72-OS-01 OSGOOD, MINKIEWICZ+ HE ..EXPERIMENT/ PHONON DISPERSION
72-RA-06 RAO, MENON HELIUM ..DISPERSION-RELATION
72-SE-02 SEARS HELIUM ..ANHARMONICITY/ FREQUENCY-SPECTRUM
72-SO-01 SOLANA, CELLI+ HE ..THEORY/ TWO-ROTON RESONANCE/ ROTON DISPERSION/ LINEWIDTH
72-SV-01 SVENSSON, WOODS+ HE ..LIQUID DYNAMICS/ PHONON DISPERSION
72-TA-01 TAKENO, GODA THEORY-OF-FLUIDS/ HE ..THEORY/ PHONON-LIKE EXCITATION/ LIQUID HELIUM
72-TA-02 TAKENO, GODA THEORY-OF-SOLIDS/ THEORY-OF-FLUIDS/ HE ..THEORY/ PHONON-LIKE EXCITATION
72-TR-02 TRYLOR, STASSIS+ HE ..EXPERIMENT/ PHONON DISPERSION/ FCC HE-4
72-WE-01 WERTHAMER HE ..THEORY
72-WO-01 WOODS, SVENSSON+ HE ..EXPERIMENT/ LIQUID DYNAMICS/ LOW-MOMENTUM-TRANSFER
72-YA-01 YAMADA, ISHIKAWA HE ..THEORY/ PHONON DISPERSION/ LIQUID HELIUM
73-HO-01 HOMNA, NAGAI+ HE ..THEORY/ PHONON VELOCITY AND DISPERSION/ BCC SOLID HE
73-JA-01 JACKSON HE ..SUPERFLUID
73-KE-01 KEBUKAWA, YAMASAKI+ HE ..THEORY/ LIQUID/ PHONON-ROTON DISPERSION
73-KE-02 KEBUKAWA HE ..THEORY/ PHONON VELOCITY/ ROTON MINIMUM/ TEMPERATURE EFFECT/ LIQUID
73-MI-03 MINKIEWICZ, KITCHENS+ HE ..DISPERSION CURVE
73-NI-05 NISHIYAMA HE ..THEORY/ LIQUID HE/ ROTON DISPERSION AND LEVEL DENSITY
73-WO-01 WOODS, SVENSSON+ HE ..SUPERFLUID/ PRESSURE EFFECT
74-BR-03 BROOKS, DONNELLY THEORY-OF-FLUIDS/ HE ..SECOND SOUND
74-GR-01 GRAF, MINKIEWICZ+ HE ..EXPERIMENT/ INELASTIC NEUTRON SCATTERING/ SOLIDS/ SCATTERING LAW/ DISPERSION RELATI
74-IA-01 IACHELLO, RASETTI HE ..THEORY/ PHONON DISPERSION

74-KU-02 KURIHARA, KURODA+ HE ..THEORY/ SOLID HE/ BCC/ PHONON DISPERSION
 74-LE-01 LEE, LEE THEORY-OF-FLUIDS/ HE ..DISPERSION RELATION
 74-MO-01 MOOK HE ..INELASTIC NEUTRON SCATTERING/ SCATTERING LAW
 74-OH-01 OHMI, KAWAMOTO+ HE ..THEORY/ ROTON SPECTRUM/ HE-3-AND HE-4 MIXTURE
 74-SC-02 SCHERM, STIRLING+ HE ..HE-3/ S(O,W)
 74-TS-02 TSUZUKI HE ..THEORY/ LIQUID HE/ ROTON DISPERSION/ TEMPERATURE EFFECT
 75-LO-01 LOVESEY HE ..THEORY/ LIQUID/ STRUCTURE FACTOR/ SCATTERING LAW/ CORRELATION FUNCTION ..ISOTHERMAL SUSCEP

2, 31 HOLMIUM

HO

69-LE-02 LEAKE, MINKIEWICZ+ HO ..DISPERSION RELATION/ TRIPLE AXIS SPECTROMETER/ LATTICE DYNAMICS ..295DK/ PARAMAGNE
 70-LA-02 LAHTEENKORVA MG/ Y/ HO ..DISPERSION RELATION/ HARMONIC APPROXIMATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..EL
 71-NJ-01 NICKLOW, WAKABAYASHI+ HO ..EXPERIMENT/ PHONON DISPERSION CURVES/ FREQUENCY DISTRIBUTION/ SPECIFIC HEAT/ DE
 72-ME-05 MENON, RAO HO/ Y ..THEORY/ PHONON DISPERSION/ HEXAGONAL METAL
 73-UP-02 UPADHYAYA, VERMA BE/ MG/ HO/ TL ..THEORY/ PHONON DISPERSION/ MODIFIED SHARMA-JOSHI MODEL
 75-UP-01 UPADHYAYA, SINHA BE/ MG/ Y/ HO ..THEORY/ EXPERIMENT/ DISPERSION RELATION ..BHATTIA MODEL

2, 32 HYDROGEN

H

51-EG-01 EGESTAFF H/ BE/ V/ SE/ MO/ FE ..SOLID/ EXPERIMENT/ TRANSMISSION
 51-ME-01 MESSIAH H/ C.H4 ..THEORY/ SCATTERING THORY ..ROOM TEMP.
 58-BR-01 BRIMBERG H ..THEORY/ MOLECULAR DYNAMICS/ SIGMA(E)
 63-MC-01 MCREYNOLDS, WHITTEMORE H ..EXPERIMENT/ LIQUID
 63-WH-01 WHITTEMORE, DANNER H ..EXPERIMENT/ LIQUID/ SIGMA (E,E-PRIME,THETA)
 64-EG-02 EGESTAFF, HAYWOOD+ H ..EXPERIMENT/ SOLID/ LIQUID ..12, 15, 18 AND 21DK
 64-ST-01 STEHN, GOLDBERG+ H/ D/ H2.O/ D2.O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPILATIONS ..S
 64-WH-01 WHITTEMORE C.H4/ H ..EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS ..NEUTRON SPECTRA/ TOTAL CROSS SECTION
 65-HO-04 HORSLEY H ..CROSS SECTION EVALUATION ..SIGMA TOTAL
 65-NA-02 NALIBOFF COMPUTER-CODES/ HYDROGEN ..THEORY/ LIQUID
 65-SE-02 SEARS H ..SCATTERING LAW
 66-KO-04 KOPPEL H2.O/ POLYETHYLENE/ ZR-H/ H ..CROSS SECTION EVALUATION/ SCATTERING FUNCTION/ THEORY/ LIQUID/ SO
 67-WH-01 WHITTEMORE D2.O/ H/ GRAPHITE ..CROSS SECTION EVALUATION/ LIQUID/ SOLID/ EXPERIMENT/ SCATTERING FUNCTION
 68-ST-01 STAMENKOVICH H ..DOUBLE-POTENTIAL-WELL/ HYDROGEN BOND ..SIGMA (THETA,E)/ THEORY/ MOLECULAR DYNAMICS
 70-OL-01 OLIVI HYDROGEN ..MOLECULAR ROTATION/ SIGMA(THETA,E) ..DIFFERENTIAL CROSS SECTION
 70-SC-04 SCHOTT H ..EXPERIMENT
 70-SC-06 SCOTT, RIETSCHEL H ..EXPERIMENT/ PHONON STATE DENSITY/ QUADRUPOLE INTERACTION CONSTANT
 71-HO-02 HOUK, SHAMBROOM+ H ..EXPERIMENT/ PARAHYDROGEN/ SCATTERING LENGTH
 72-LE-04 LEFEVRE, CHEN+ H ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ PRESSURE DEPENDENCE/ KINETIC THEORY ANALYSIS
 72-NI-02 NIELSEN, CARNEIRO H ..EXPERIMENT/ PHONON DISPERSION/ SOLID PARAHYDROGEN
 73-NI-02 NIELSEN H/ D ..EXPERIMENT/ PHONON DISPERSION/ PARA-H,ORTHO-D/ TEMPERATURE,PRESSURE EFFECT
 73-SE-01 SEARS NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS ..THEORY/ FLUID/ SCATTERING FUNCTION
 74-BI-01 BICKERMAN, BIEM+ HYDROGEN ..THEORY/ SOLID ORTHO-HYDROGEN/ PHONON DISPERSION AND SPECTRA/ SCATTERING FUNCTI

2, 33 HYDROGEN

H2

37-SC-01 SCHWINGER, TELLER H2 ..THEORY/ TOTAL CROSS SECTION
 41-SA-01 SACHS, TELLER NEUTRON-SCATTERING-IN-FLUIDS/ H2/ C.H4/ N.H3/ H2.O ..SCATTERING THEORY ..MOLECULAR GASES
 47-HA-01 HAMMERMESH, SCHWINGER H2 ..THEORY/ GAS/ SCATTERING CROSS SECTION
 61-SA-01 SARMA H2 ..THEORY/ MOLECULAR DYNAMICS/ LIQUID

63-BA-02 BALLY, TARINA+ H2 ETHYLENE ..EXPERIMENT
 63-WE-01 WEBB C.H4/ N.H3/ H2 ..SIGMA(E-PRIME,THETA)/ EXPERIMENT/ GAS ..ROOM TEMPERATURE
 64-YO-01 YOUNG, KOPPEL H2/ D2 ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING CROSS SECTION ..20.4DK
 64-YO-04 YOUNG, KOPPEL H2/ D2 ..THEORY/ MOLECULAR DYNAMICS/ LIQUID ..SCATTERING CROSS SECTION
 65-KO-02 KOPPEL, YOUNG H2 ..THEORY/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION ..20.5DK
 67-EG-01 EGELSTAFF, HAYWOOD+ H2 ..MOLECULAR DYNAMICS/ SOLID/ LIQUID/ EXPERIMENT
 67-EG-07 EGELSTAFF, HAYWOOD+ H2 ..EXPERIMENT/ MOLECULAR MOTION/ LIQUID AND SOLID
 67-EL-04 ELLIOTT, HARTMAN H2 ..MOLECULAR DYNAMICS/ THEORY/ SIGMA(THETA.E)
 70-KL-01 KLEIN, KOEHLER H2 ..DISPERSION RELATION
 70-KL-03 KLUMP, SCHNEPP+ H2/ D2 ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID
 70-MI-02 MISENTA, OLIVI H2 ..THEORY/ DIFFERENTIAL CROSS SECTION
 71-BI-01 BIEM, MERTENS H2 ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ SOLID HYDROGEN
 71-NO-02 NOOLANDI H2 ..THEORY/ SOLID
 71-ST-03 STEIN, STOCKMEYER+ H2 ..EXPERIMENT/ SOLID HYDROGEN/ T-O-F SPECTRA/ PHONON DENSITY
 72-JA-01 JACOBI, SCHNEPP C.O2/ H2/ N2 ..THEORY/ LATTICE DYNAMICS ..QUADRAPOL-QUADRAPOL POTENTIAL
 72-ST-02 STEIN H2 ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ SCATTERING LAW/ FREQUENCY DISTRIBUTION
 72-ST-03 STEIN, STILLER+ H2 ..LATTICE AND MOLECULAR DYNAMICS
 74-CA-02 CARNEIRO H2/ N2 ..EXPERIMENT/ PHONON LIKE EXCITATION/ LIQUID DYNAMICS
 75-DI-01 DIEHL, BIEM H2 ..THEORY/ SCATTERING CROSS SECTION/ ORTHO-PARA CONVERSION

2. 34 INDIUM

IN

63-AR-01 ARNOLD, NERESON GA/ IN/ SB/ AS ..EXPERIMENT/ SCATTERING AMPLITUDE
 72-KU-03 KUMAR, SHARAN IN ..THEORY/ PHONON DISPERSION/ DEBYE TEMPERATURE
 73-GU-01 GUNTON, SAUNDERS IN/ IN-TL ..THEORY/ PHONON DISPERSION/ MARTENSITIC PHASE CHANGE
 73-SH-02 SHARAN, KUMAR IN ..THEORY/ PHONON DISPERSION/ DEBYE TEMP./ ELASTIC CONSTANT
 75-RE-01 REISSLAND, ESE AL/ NA/ MG/ IN/ TL ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ MODEL POTENTIAL CALCULATION

2. 35 IODINE

I

73-FO-01 FOLTER I/ B ..THEORY/ DISPERSION FUNCTION/ BORN VON KARMAN MODEL

2. 36 IRON

FE

61-IY-01 IYENGAR, SATYA-MURTHY+ FE ..EXPERIMENT/ DISPERSION RELATION
 62-LO-01 LOW FE ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 66-MA-02 MAHESH, DAYAL FE/ MO/ W ..THEORY/ PHONON DISPERSION AND FREQUENCY DISTRIBUTION
 67-BE-01 BERGSMAN, VAN-DIJK+ FE ..DISPERSION RELATION/ EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ CRYSTAL SPECTROMETER/ BO
 67-BR-01 BROCKHOUSE, ABOU-HELAL+ FE ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION
 67-GI-02 GILAT CR/ FE/ W/ THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRA/ BCC METALS
 67-MI-03 MINKIEWICZ, SHIRANE+ FE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..ROOM
 67-VA-01 VAN-DINGENEN, HAUTECLER FE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..ROOM TEMPERATURE/ TOF MET
 68-VA-02 VAN-DIJK, BERGSMAN FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
 70-VA-03 VAN-DIJK FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ PHONON DISPERSION
 72-BA-05 BAJPAI, NEELAKANDAN FE/ NB/ TA/ W ..THEORY/ PHONON DISPERSION/ BCC METAL/ MODIFIED AXIALLYSYMMETRIC MODEL
 72-BE-01 BEHARI, TRIPATHI FE/ MO/ W ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA
 75-UP-03 UPADHYAYA, SHARMA+ FE/ W/ MO/ V/ NB/ TA ..LATTICE DYNAMICS/ DISPERSION RELATION/ TRANSITION METAL/ THEORY/

2. 37 KRYPTON

KR

61-CL-01 CLAYTON, HEATON KR ..EXPERIMENT/ STRUCTURE FACTOR/ LIQUID/ RADIAL DISTRIBUTION ..117,133,153,183 AND 210DK
 65-GU-01 GUPTA, DAYAL AR/ KR ..THEORY/ PHONON SPECTRA/ SPECIFIC HEAT
 67-BR-03 BROWN, HORTON KR ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..73DK
 67-DA-01 DANIELS, SHIRANE+ KR ..EXPERIMENT/ PHONON DISPERSION/ 79DK
 67-HO-03 HOEGBERG, BOHLIN KR ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 70-GL-01 GLYDE NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY
 70-KI-03 KITAGAWA AR/ KR/ POLYETHYLENE ..REVIEW/ LATTICE DYNAMICS
 70-LE-02 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS/ ANHARMONICITY ..THERMODYNAMICAL PROPERTIES
 70-LE-03 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS
 71-BA-07 BARKER, BOBETIC+ KR ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT
 71-GU-02 GUPTA, GUPTA AR/ KR/ XE ..THEORY/ PHONON DISPERSION AND SPECTRA/ ANHARMONIC POTENTIAL
 71-HU-01 HUELLER THEORY-OF-SOLIDS/ ARGON/ KRYPTON/ XENON ..CAUCHY-RELATION
 72-BO-01 BOBETIC, BARKER+ KR ..THEORY/ DEBYE PARAMETER/ THERMAL EXPANSION/ BULK MODULVS
 72-TO-02 TOLPYGO, TROITSKAYA NE/ AR/ KR ..DISPERSION CURVE
 73-PE-01 PETER, SKALYO+ KR ..SOLID/ EXPERIMENT/ ELASTIC CONSTANTS/ ..COLD NEUTRON
 73-SA-02 SALZBERG, SHUKLA KR ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ AXIALLY SYMMETRIC MODEL
 73-WI-02 WINFIELD, EGELSTAFF KR/ THEORY-OF-FLUIDS ..TRIPLET CORRELATION
 74-SK-01 SKALYO-JR., ENDOH+ KR ..PHONON DISPERSION CURVE/ FREQUENCY DISTRIBUTION/ INELASTIC NEUTRON SCATTERING
 75-GA-01 GARG, GUPTA NE/ AR/ KR/ XE ..LATTICE DYNAMICS/ ANHARMONICITY/ CENTRAL FORCE MODEL/ DISPERSION RELATION

2. 38 LEAD

PB

54-EG-01 EGELSTAFF PB ..EXPERIMENT/ LIQUID
 55-BR-01 BROCKHOUSE PB ..EXPERIMENT/ LIQUID
 59-BR-01 BROCKHOUSE, POPE PB ..EXPERIMENT/ LIQUID
 59-PE-01 PELAH, WHITTEMORE+ PB ..EXPERIMENT/ LIQUID/ SOLID/ TOF/ NEUTRON SPECTRUM/ QUASI-ELASTIC PEAK
 61-BR-01 BROCKHOUSE, RAO+ PB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 61-BR-02 BROCKHOUSE, ARASE+ PB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ PHONON LIFE TIME
 61-EG-01 EGELSTAFF, COCKING+ H2, O/ D2, O/ PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION
 61-PA-01 PALEVSKY H2, O/ PB/ SN ..EXPERIMENT/ LIQUID ..ROOM TEMP. 45DC FOR H2, O/ 462DC FOR PB/ 350DC FOR SN/ BE-F
 61-RA-01 RAHMAN, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS/ PB ..THEORY ..LIQUID DYNAMICS
 62-BR-01 BROCKHOUSE, ARASE+ PB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CRYSTAL SPECTROMETER/ 100DK
 62-CO-04 COTTER PB ..EXPERIMENT/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION
 62-EG-03 EGELSTAFF, SCHOFIELD SCATTERING-THEORIES/ H2, O/ PB ..EXPERIMENT/ THEORY/ LIQUID/ DIFFUSION PARAMETER ..ROO
 62-EG-05 EGELSTAFF MG/ BE/ PB ..THEORY/ SOLID/ LIQUID/ SIGMA(E, E-PRIME, THETA) ..METAL/ LIQUID METAL
 62-TU-01 TURBERFIELD PB ..EXPERIMENT/ LIQUID ..340DC/ 520DC/ 324DC
 63-EG-03 EGELSTAFF PB/ SN ..EXPERIMENT/ SCATTERING FUNCTION/ LIQUID
 63-SI-03 SINGWI, SJOELANDER+ NEUTRON-SCATTERING-IN-FLUIDS/ H2, O/ PB ..THEORY/ LIQUID/ FREQUENCY DISTRIBUTION/ SCATT
 65-CO-03 COCKING, EGELSTAFF PB/ SN ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
 65-DO-07 DORNER, PLESSER+ PB ..EXPERIMENT
 65-GI-03 GILAT PB ..PHONON FREQUENCY DISTRIBUTION
 65-PA-02 PALEVSKY PB/ H2, O/ SN ..EXPERIMENT/ LIQUID
 65-TO-01 TOYA PB ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-BR-05 BRUGGER METHANE/ ETHANE/ AL/ NA/ PB/ AR ..COMPILATION/ SCATTERING FUNCTION
 66-EG-01 EGELSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
 66-LE-01 LECHNER, QUITNER PB ..PHONON DISPERSION/ PRESSURE EFFECT
 66-RA-03 RANDOLPH LEAD ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..352DC
 66-RA-04 RANDOLPH, SINGWI PB ..SCATTERING LAW/ LIQUID/ CRYSTAL SPECTROMETER/ EXPERIMENT ..COLLECTIVE MOTION
 67-CO-01 COCKING AL/ PB/ BI/ RB/ SN ..SOLID/ LIQUID/ DISPERSION RELATION/ EXPERIMENT

67-DO-01 DORNER, PLESSER+ PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..LIQUID DYNAMICS/ METAL
 67-DO-02 DORNER, PLESSER+ PB ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LIQUID/ DISPERSION CURVE
 67-DO-03 DORNER, PLESSER+ PB ..EXPERIMENT/ POLYCRYSTAL/ LIQUID/ DISPERSION CURVES
 67-NE-03 NELKIN, RANGANATHAN LEAD ..SCATTERING LAW/ QUASI-ELASTIC PEAK/ THEORY ..VLASOV EQUATION
 67-RA-03 RANDOLPH PB ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
 67-RA-04 RANDOLPH, MYERS PB ..EXPERIMENT/ LIQUID/ DISPERSION RELATION ..350DC/ COLLECTIVE VIBRATIONAL MODE
 67-ST-03 STEDMAN, ALMØVIST+ AL/ PB ..LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..800DK FOR AL/ 500DK FOR PB
 67-ST-04 STEDMAN, ALMØVIST+ PB ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..80DK/ 300DK
 68-AG-02 AGRAWAL, DESAI+ NEUTRON-SCATTERING-IN-FLUIDS/ AR/ NA/ PB/ METHANE ..THEORY ..MODEL CALCULATION
 68-CO-03 COCKING, EGELSTAFF PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..15DC ABOVE AND BELOW MELTING POINT/ 350D
 68-CO-04 COCKING NA/ PB ..EXPERIMENT/ LIQUID/ ..LIQUID DYNAMICS
 68-CO-05 COCKING PB ..THEORY/ LIQUID DYNAMICS
 68-CO-06 COCKING, EGELSTAFF PB ..LIQUID DYNAMICS/ TEMPERATURE DEPENDENCE
 68-GR-02 GRIMVALL, GRIMVALL AL/ NB/ PB ..FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS ..DEBYE TEMP,
 68-NO-01 NORTH, ENDERBY+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ..LIQUID METAL/ 340DC-1100D
 68-NO-03 NORTH, ENDERBY+ PB/ TI ..STRUCTURE FACTOR
 68-RA-04 RANDOLPH PB ..LIQUID/ CORRELATION FUNCTION/ SCATTERING LAW/ EXPERIMENT
 68-SC-04 SCHMUCK, QUITTNER LEAD ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
 68-SC-05 SCHMUCK, QUITTNER PB ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES ..PSEUDOPOTENTIAL CALCULATION
 68-WI-01 WIGNALL, EGELSTAFF PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..336-726DC
 69-DE-02 DESAI, YIP NA/ PB ..THEORY/ LIQUID/ SCATTERING FUNCTION ..LIQUID METAL
 69-IC-01 ICHIKAWA, SHIMOJI LI/ NA/ K/ HG/ PB ..DIFFUSION PARAMETER/ LIQUID/ THEORY ..LIQUID METAL/ FRICTION CONSTAN
 69-RO-01 ROWELL, MCMILLAN+ PB/ PB-TL ..EXPERIMENT/ SPECTRAL DENSITY ..TUNNELING EXPERIMENT
 70-CO-06 COULTHARD SODIUM/ POTASSIUM/ ALUMINIUM/ LEAD ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..PRESSURE
 70-FU-01 FURRER, HALG PB ..ANHARMONIC EFFECT
 70-RO-03 ROY, BROCKHOUSE PB/ PB-TL ..EXPERIMENT/ FREQUENCY SPECTRA/ POLYCRYSTALLINE SAMPLES/ TRIPLE AXIS SPECTROMET
 70-VA-01 VADOVIC, COLVER AG/ GA/ HG/ NA/ PB/ SN/ ZN ..THEORY/ SELF-DIFFUSION CONSTANT
 71-GR-01 GREENFIELD, WISER NA/ PB ..EXPERIMENT/ STRUCTURE FACTOR ..X-RAY DIFFRACTION
 71-GU-03 GUPTA, TRIPATHI PB ..THEORY/ PHONON DISPERSION/ ELASTIC PROPERTIES/ PSEUDOPOTENTIAL
 71-GU-04 GUPTA, TRIPATHI PB ..THEORY/ PHONON DISPERSION
 72-BE-02 BEHARI PB ..THEORY/ SOLID/ LATTICE DYNAMICS
 72-GO-02 GONPF, LAU+ PB/ AL/ CA ..EXPERIMENT/ PHONON SPECTRA/ COHERENT SCATTERING
 73-CA-01 CAVALHEIRO, SHUKLA PB ..THEORY/ PHONON DISPERSION/ DEBYE TEMP,/ DE LAUNAY MODEL
 73-KA-02 KACHHAVA PB ..THEORY/ PHONON DISPERSION
 73-KA-03 KACHHAVA PB ..THEORY/ PHONON DISPERSION/ ASHKROFT MODEL PSEUDOPOTENTIAL
 73-PR-02 PRASAD, SRIVASTAVA PB ..THEORY/ PHONON DISPERSION/ MODEL POTENTIAL CALCULATION
 74-NO-01 NOVOTNY, HOLDEN+ PB ..NEUTRON DIFFRACTION

2. 39 LITHIUM

LI

65-KR-01 KREBS LI/ NA/ K ..THEORY/ SOLID/ DISPERSION RELATION
 66-AN-01 ANIMALU, BONSIGNORI+ NA/ K/ AL/ LI/ RB/ CS ..THEORY/ PHONON DISPERSION/ MODEL POTENTIAL
 68-SM-01 SMITH, DOLLING+ LI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..98DK/ LI7
 69-IC-01 ICHIKAWA, SHIMOJI LI/ NA/ K/ HG/ PB ..DIFFUSION PARAMETER/ LIQUID/ THEORY ..LIQUID METAL/ FRICTION CONSTAN
 69-KR-01 KREBS, HOELZL LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES ..PSEUD-ION APPROXIMATION/ FITTING TO
 69-PR-02 PRAKASH, JOSHI LI ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYN
 69-WA-04 WALLACE LI ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ PHONON/ GRUENEISEN
 70-GU-01 GUPTA LI ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ METAL
 70-PA-03 PAL LI ..THEORY/ LATTICE VIBRATION/ DISPERSION/ SHARN-JOSHI MODEL
 70-PR-02 PRICE, SINGWI+ NA/ K/ LI/ RB ..THEORY/ DISPERSION RELATION ..PHONON LIFE TIMES DUE TO ELECTRON-PHONON INTE
 70-SI-04 SINGH, PRAKASH LI/ RB/ K/ CS/ ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION ..ALKALI METAL

71-GU-01 GUPTA, TRIPATHI LI ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ COMPRESSIBILITY
 71-TR-04 TRIPATHI, BEHARI LI/ NA/ K ..CALCULATION/ PHONON DISPERSION/ DEBYE TEMP.
 72-BA-02 BAJPAI, NEELAKANDAN LI/ NA/ K ..THEORY/ PHONON DISPERSION/ BCC METAL/ AXIALLY SYMMETRIC MODEL
 72-KA-01 KACHHAVA LI ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL CALCULATION
 72-KA-02 KACHHAVA LI ..THEORY/ PHONON DISPERSION ..PSEUDOPOTENTIAL
 72-PR-02 PRASAD, SRIVASTAVA LI ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL
 72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE
 72-SI-03 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ PHONON DISPERSION
 72-SI-04 SINGH, SRIVASTAVA LI ..THEORY/ PHONON DISPERSION/ THERMAL EXPANSION/ GRUENEISEN PARAMETER
 73-KU-02 KUSHWAHA LI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL
 73-ON-01 ONO LI ..THEORY/ PHONON DISPERSION/ HARTREE-FOCK EQ./ HARRISON METHOD
 73-SH-03 SHARAN, KUMAR+ LI ..THEORY/ PHONON DISPERSION
 74-DA-01 DA-CUNHA-LIMA, BRESCANSIN+ K/ LI/ RB ..PHONON DYNAMICS RELATION/ KREBS MODEL
 74-PR-01 PRAKASH, PATHAK+ K/ RB/ LI ..THEORY/ LATTICE DYNAMICS/ PHONON DISPERSION/ ANGULAR FORCE MODEL
 75-NA-02 NAND, TRIPATHI+ LI ..THEORY/ MODEL POTENTIAL APPROACH

2. 40 MAGNESIUM MG

58-EG-01 EGELSTAFF BE/ MG/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ SOLID/ SIGMA(E, E-PRIME, THETA)/ SIGMA(E) ..O
 62-CO-03 COLLINS MG ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 62-EG-05 EGELSTAFF MG/ BE/ PB ..THEORY/ SOLID/ LIQUID/ SIGMA(E, E-PRIME, THETA) ..METAL/ LIQUID METAL
 63-IY-01 IYENGER, VENKATARAMAN+ MG ..EXPERIMENT/ DISPERSION RELATION
 63-MA-02 MALISZEWSKI, SOSNOWSKI+ ZN/ CU/ MG ..EXPERIMENT
 64-YO-02 YOUNG, KOPPEL BE/ MG/ ZN ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..ROOT SAMPLING METHOD
 65-IY-01 IYENGER, VENKATARAMAN+ MG ..LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION
 65-IY-02 IYENGER, VENKATARAMAN+ MG ..DISPERSION RELATION/ SOLID/ DISPERSION RELATION
 65-SO-01 SQUIRES MG ..PHONON DISPERSION/ EXPERIMENT
 66-SO-01 SQUIRES MG ..PHONON DISPERSION
 67-RO-03 ROY, VENKATARAMAN MG ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL
 68-BR-01 BROYMAN, KAGAN+ BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS
 68-CZ-01 CZACHOR MG/ ZN/ BE ..THEORY/ PHONON DISPERSION
 68-PY-01 PYNIN, SQUIRES MG ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ TOF
 68-SC-06 SCHNEIDER, STOLL CS, CL/ MG ..GROUP AL ..THEORY/ LATTICE DYNAMICS ..ELECTRONIC STRUCTURE/ METAL
 68-WA-03 WARREN NA/ MG/ AL ..THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES/ SPACE GROUP/ IRREDUCIBLE REP
 69-GI-02 GILAT, RIZZI+ BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..METAL/ MODEL POTENTIAL CALCULATION
 69-ME-02 METZBOWER BE/ MG/ ZN ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..NONCENTRAL-FORCE/ FIVE FORC
 69-PI-01 PINDOR, PYNIN MG ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMICS ..PHONON/ POTENTIAL/ METAL
 70-CZ-01 CZACHOR MG/ CO/ Y ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ BORN-VON KARMAN MODEL ..AXIAL
 70-CZ-02 CZACHOR, RAJCA MG/ CO/ Y ..CALCULATION/ HEXAGONAL METAL/ FREQUENCY SPECTRA
 70-FL-01 FLOYD, KLEINMAN MG ..THEORY/ PHONON DISPERSION RELATION/ METAL/ PSEUDOPOTENTIAL
 70-LA-02 LAHTENKORVA MG/ Y/ HO ..DISPERSION RELATION/ HARMONIC APPROXIMATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..EL
 70-PR-01 PRAKASH, JOSHI BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..SINGLE-ORTHOGONALIZED-PLANE-WA
 70-SH-03 SHARAN, BAJPAI BE/ MG/ TL ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..HEXAGONAL METAL
 71-KI-02 KING-III, CUTLER MG ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..METAL/ PSEUDOPOTENTIAL
 71-SR-01 SRINIVASAN, RAO MG/ ZN/ BE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ ANHARMONICS
 71-TR-05 TROTT, HEALD BE/ MG/ ZN ..THEORY/ PHONON DISPERSION AND SPECTRA/ HEXAGONAL LATTICE
 72-BA-01 BAJPAI MG/ ZR/ Y/ TI/ TL/ HF ..THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE
 72-BA-04 BAJPAI, ONO MG ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 72-PY-01 PYNIN, SQUIRES MG ..EXPERIMENT/ PHONON DISPERSION/ PHONON DENSITY/ DEBYE TEMP.
 73-BO-04 BOSE, TRIPATHI+ BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ SPECIFIC HEAT/ CENTRAL AND NON
 73-KU-04 KUSHWAHA MG/ BE/ TL ..THEORY/ PHONON DISPERSION/ SHORT-RANGE CLOSED-SHELL AND IONIC INTERACTION

73-RA-01 RAJPUT, KUSHWAHA BE/ MG ..THEORY/ PHONON DISPERSION/ KREB MODEL
 73-SH-08 SHUKLA, CLOSS MG ..THEORY/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANT/ DISPERSION RELATION ..ELECTRON, IO
 73-UP-02 BE/ MG/ HO/ TL ..THEORY/ PHONON DISPERSION/ MODIFIED SHARMA-JOSHI MODEL
 74-ES-01 ESCHRIG, VAN-LOVEN+ MG ..PHONON DENSITY OF STATE
 74-MA-03 MAURYA, SRIVASTAVA MG ..THEORY/ SOLID/ DISPERSION RELATION ..TOYA'S THEORY
 75-MA-05 MAURYA, SRIVASTAVA BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ HCP METAL/ TOYA THEORY
 75-RE-01 REISSLAND, ESE AL/ NA/ MG/ IN/ TL ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ MODEL POTENTIAL CALCULATION
 75-UP-01 UPADHYAYA, SINHA BE/ MG/ V/ HO ..THEORY/ EXPERIMENT/ DISPERSION RELATION ..BHATTIA MODEL

2. 41 MERCURY

HG

51-PL-01 PLACZEK, NIJBOER+ NEUTRON-SCATTERING-IN-FLUIDS/ HG ..THEORY/ SIGMA(E,E-PRIME,THETA)/ SOLID/ LIQUID/ SCATTE
 54-VI-02 VINEYARD HG ..EXPERIMENT/ STRUCTURE FACTOR/ LIQUID METAL
 69-IC-01 ICHIKAWA, SHIMOJI LI/ NA/ K/ HG/ PB ..DIFFUSION PARAMETER/ LIQUID/ THEORY ..LIQUID METAL/ FRICTION CONSTAN
 70-VA-01 VADOVIC, COLVER AG/ GA/ HG/ NA/ PB/ SN/ ZN ..THEORY/ SELF-DIFFUSION CONSTANT
 70-WA-02 WASEDA, SUZUKI HG ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR ..LIQUID METAL
 73-FR-01 FRANCHETTI+ HG ..THEORY/ RADIAL DISTRIBUTION FUNCTION

2. 42 MOLYBDENUM

MO

51-EG-01 EGELSTAFF H/ BE/ V/ SE/ MO/ FE ..SOLID/ EXPERIMENT/ TRANSMISSION
 64-WO-01 WOODS, CHEN MO ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 65-WO-01 WOODS NB/ TA/ MO/ W ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-MA-02 MAHESH, DAYAL FE/ MO/ W ..THEORY/ PHONON DISPERSION AND FREQUENCY DISTRIBUTION
 66-RO-01 ROSENSTOCK, BLANKEN NA/ NB/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELATION ..FORCE CONSTANTS FOR BORN-
 69-WA-03 WALKER, EGELSTAFF MO ..DISPERSION RELATION/ LATTICE DYNAMICS/ TOF ..ROOM TEMPERATURE
 72-BE-01 BEHARI, TRIPATHI FE/ MO/ W ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA
 72-BU-07 BUYERS, POWELL MO ..EXPERIMENT/ PHONON DISPERSION/ KOHN ANOMALY/ TEMPERATURE EFFECT
 75-UP-03 UPADHYAYA, SHARMA+ FE/ W/ MO/ V/ NB/ TA ..LATTICE DYNAMICS/ DISPERSION RELATION/ TRANSITION METAL/ THEORY/

2. 43 NEON

NE

65-CH-02 CHEN, EDER+ NEON/ ARGON/ DEUTERIUM/ CARBON TETRAFLUORIDE ..EXPERIMENT/ LIQUID/ SIGMA(THETA,E)
 66-ED-01 EDER, CHEN+ AR/ NE ..EXPERIMENT/ H IN LIQUID AR AND NE
 67-JA-01 JAEN, KHAN NE ..THEORY/ LIQUID/ STATISTICAL MECHANICS
 68-FR-01 FRANCHETTI, MAZZA AR/ NE/ HE ..THEORY/ MONATOMIC LIQUID/ RADIAL DENSITY AND SCATTERIN FUNCTION
 69-LE-03 LEAKE, DANIELS+ NE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..4.7DK/ 25DK/ TRIPLE-AXIS-S
 70-GL-01 GLYDE NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY
 70-GO-02 GOLDMAN, HORTON+ NE/ HE ..SELF-CONSISTENT APPROXIMATION/ DISPERSION CURVE/ LIFE TIME/ THEORY
 70-GU-04 GUPTA, GUPTA NE ..THEORY/ PHONON DISPERSION AND SPECTRUM/ PSEUDOANHARMONIC CENTRAL-FORCE RIGID-ATOM MODEL
 70-LE-02 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS/ ANHARMONICITY ..THERMODYNAMICAL PROPERTIES
 70-LE-03 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS
 71-BE-01 BEHARI, TRIPATHI NE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ DEBYE TEMP./ FREQUENCY SPECTRA
 72-BO-03 BOHLIN NE ..THEORY/ INELASTIC SCATTERING PROFIL/ NUMERICAL CALCULATION/ SOLID
 72-BU-06 BUYERS, SEARS+ NE/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ LIQUID DYNAMICS/ COLLECTIVE MOTION/ SINGLE PA
 72-EG-02 EGELSTAFF, WANG RB/ NE ..THEORY/ EXPERIMENT/ LIQUID/ STRUCTURE FACTOR ..DENSITY DEPENDENT POTENTIAL
 72-HO-01 HORNER HE/ NE/ AR ..THEORY/ PHONON DISPERSION/ SELFCONSISTENT TREATMENT
 72-HO-02 HORNER THEORY-OF-SOLIDS/ HE/ NE ..QUANTUM CRYSTALS/ PHONON SPECTRUM
 72-HO-03 HORNER HE/ NE ..THEORY/ SCATTERING FUNCTION/ SINGLE-PARTICLE EXCITATION/ QUANTUM CRYSTAL

72-SK-01 SKALYO-JR, MINKIEWICZ+ NE .. EXPERIMENT/ PHONON DISPERSION/ A-S MODEL FITTING/ FREQUENCY DISTRIBUTION
 72-TO-02 TOLPYGO, TROITSKAYA NE/ AR/ KR .. DISPERSION CURVE
 73-BE-02 BELL, KOLLMAR+ NE/ NEUTRON-SCATTERING-IN-FLUIDS .. EXPERIMENT/ LIQUID/ NEUTRON SPECTRUM .. COHERENT SCATTERI
 73-KE-03 KERR, SINGWI NE/ NEUTRON-SCATTERING-IN-FLUIDS .. QUANTUM EFFECT .. LARGE-Q-REGION
 73-SE-01 SEARS NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS .. THEORY/ FLUID/ SCATTERING FUNCTION
 74-BR-01 BRENNAN, HUTCHINSON+ NEON .. PAIR-DISTRIBUTION FUNCTION
 74-BU-02 BUYERS, SEARS+ NE .. EXPERIMENT/ S(Q,OMEGA) COMPILATION
 75-BU-03 BUYERS, V.F./ LONNGI+ NEON .. QUASI-ELASTIC PEAK/ SCATTERING LAW
 75-EN-01 ENDOH, SHIRANE+ NE .. PHONON DISPERSION/ SOLID NE
 75-GA-01 GARG, GUPTA NE/ AR/ KR/ XE .. LATTICE DYNAMICS/ ANHARMONICITY/ CENTRAL PORCE MODEL/ DISPERSION RELATION

2. 44 NICKEL

NI

63-MO-01 MOZER, OTONES NI/ PD/ NI-PD .. EXPERIMENT/ LATTICE DYNAMICS .. IMPURITY MODE
 63-TC-01 TCHERNOPLKOV, ZEMLYANOV+ NI .. EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION
 64-BI-01 BIRGENEAU, CORDES+ NI .. 296 DEGREE KELVIN/ EXPERIMENT/ DISPERSION RELATION/ 3-AXIS SPECTROMETER
 64-BR-04 BRUGGER NI .. EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 65-HA-06 HAUTECLER, VAN-DINGEN NI .. PHONON DISPERSION
 65-MO-03 MOZER, OTNES+ NI/ V/ TI/ TI-ZR .. EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION
 67-HA-02 HAUTECLER, VAN-DINGEN NI .. EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION .. ROOM TEMP
 67-SH-03 SHUKLA, DAYAL NI .. THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ KREBS MODEL
 67-SI-01 SINGH NI .. LATTICE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION .. DEBYE TEMPERATURE/ 0DK-300DK
 68-DE-02 DE-WIT, BROCKHOUSE NI .. EXPERIMENT/ LIQUID/ 1500DC/ RADIAL DISTRIBUTION FUNCTION
 70-WA-03 WASEDA, SUZUKI+ NI .. EXPERIMENT/ SOLID/ TOF/ DISPERSION RELATION .. METAL
 71-FR-01 FRIKKEE NI .. THEORY/ METAL/ MODIFIED SHELL
 71-HA-03 HANKE NI .. THEORY/ DISPERSION CURVE/ TWO-BAND MODEL/ HARTREE APPROXIMATION
 71-PR-01 PRAKASH, JOSHI NI .. THEORY/ AU/ AL/ NI/ NA/ CR/ FE .. THEORY/ DEBYE-WALLER FACTOR
 71-SI-01 SINGH, SHARMA NI .. THEORY/ PHONON DENSITY/ SHARMA-JOSHI MODEL/ SPECIFIC HEAT/ DEBYE WALLER FACTOR
 73-PA-02 PAL NI .. THEORY/ PHONON DISPERSION/ SHARMA-JOSHI MODEL/ SPECIFIC HEAT/ DEBYE WALLER FACTOR
 73-SH-05 SHUKLA, CAVALHEIRO NI .. THEORY/ PHONON DISPERSION/ SHARMA-JOSHI MODEL/ SPECIFIC HEAT/ DEBYE WALLER FACTOR
 75-BE-04 BERTOLO, SHUKLA NI/ PD/ PT .. THEORY/ PHONON DISPERSION/ MODIFIED BHATIA MODEL
 75-FI-02 FIELEK CU/ NI .. THEORY/ PHONON DISPERSION/ METAL/ MODEL CALCULATION

2. 45 NIOBIUM

NB

63-NA-01 NAKAGAWA, WOODS NB
 65-NA-01 NAKAGAWA, WOODS NB .. EXPERIMENT/ SOLID/ DISPERSION RELATION
 65-WO-01 WOODS NB/ TA/ W .. EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-RO-01 ROSENSTOCK, BLANKEN NA/ NB/ MO/ TA/ W/ CU-ZN/ SN .. THEORY/ DISPERSION RELATION .. FORCE CONSTANTS FOR BORN-
 68-GR-02 GRIMVALL, GRIMVALL AL/ NB/ PB .. FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS .. DEBYE TEMP,
 69-SH-02 SHARP NB .. DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATURE .. 296DK/ TOF/ TRIPLE-AXIS
 69-SH-03 SHARP NB .. KOHN EFFECT/ DISPERSION RELATION .. FERMI SURFACE
 71-KO-02 KORSUNSKII, GENKIN+ NB .. THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL
 72-BA-05 BAJPAI, NEELAKANDAN FE/ NB/ TA/ W .. THEORY/ PHONON DISPERSION/ BCC METAL/ MODIFIED AXIALLYSYMMETRIC MODEL
 72-PO-02 POWELL, WOODS+ NB .. EXPERIMENT/ PHONON DISPERSION/ 296 TO 1050K
 74-CH-05 CHUI NB .. DISPERSION RELATION
 75-UP-03 UPADHYAYA, SHARMA+ FE/ W/ MO/ V/ NB/ TA .. LATTICE DYNAMICS/ DISPERSION RELATION/ TRANSITION METAL/ THEORY/

2. 46 NITROGEN

N

65-DO-05 DONALDSON, PASSELL+ B/ N/ O ..MIRROR REFLECTION/ SCATTERING AMPLITUDE
68-YO-01 YOUNG N ..SCATTERING THEORY/ MOLECULAR DYNAMICS
75-KJ-01 KJENS, DOLLING N ..INELASTIC NEUTRON SCATTERING
75-PO-04 POWLES N ..SCATTERING LAW/ LIQUID
75-SI-06 SINCLAIR, CLARKE+ N ..EXPERIMENT/ LIQUID/ 77.4DK/ SINGLE PARTICLE EXCITATION

2. 47 NITROGEN N2
65-VE-02 VERTEBNYI, DZYUB+ N2/ O2 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID/ SOLIDS
66-TE-01 TEUTSCH, MATEESCU+ N2 ..EXPERIMENT/ LIQUID DYNAMICS
68-MA-10 MATEESCU, TEUTSCH+ N2/ B1 ..EXPERIMENT/ TOF/ SCATTERING FUNCTION ..77.4DK FOR N2/ 560DK FOR B1
72-JA-01 JACOBI, SCHNEPP C.O2/ H2/ N2 ..THEORY/ LATTICE DYNAMICS ..QUADRAPOL-QUADRAPOL POTENTIAL
74-CA-02 CARNEIRO H2/ N2 ..EXPERIMENT/ PHONON LIKE EXCITATION/ LIQUID DYNAMICS
75-CA-01 CARNEIRO, MCTAGUE N2 ..EXPERIMENT/ SCATTERING LAW/ LIQUID/ 66.4K
75-WE-01 WEIS, KLEIN N2 ..COMPUTER SIMULATION/ SCATTERING FUNCTION/ SOLIDN2

2. 48 OXYGEN O
65-DO-05 DONALDSON, PASSELL+ B/ N/ O ..MIRROR REFLECTION/ SCATTERING AMPLITUDE
68-SU-02 SUMMERFELD, LURIE O ..SCATTERING FUNCTION/ EXPERIMENT/ THEORY/ GAS ..MAGNETIC SCATTERING/ ROOM TEMP.
68-VA-01 VALENTINE O ..EXPERIMENT ..USING U.O2 SINGLE CRYSTAL

2. 49 OXYGEN O2
65-VE-02 VERTEBNYI, DZYUB+ N2/ O2 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID/ SOLIDS

2. 50 PALLADIUM PD
63-MO-01 MOZER, OTONES NI/ PD/ NI-PD ..EXPERIMENT/ LATTICE DYNAMICS ..IMPURITY MODE
68-MI-02 MILLER, BROCKHOUSE PD ..EXPERIMENT/ THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..TRIPLE AXIS SPECTROMET
70-BR-03 BROWN PD ..THEORY/ PHONON DISPERSION/ KREBS MODEL
71-BR-04 BROWN PD ..CALCULATION/ PHONON DISPERSION/ 3-PARAMETER MODEL
71-NI-01 MILLER, BROCKHOUSE PD/ CU ..EXPERIMENT/ CALCULATION/ NEUTRON SCATTERING/ DISPERSION CURVE/ FREQUENCY SPECT
71-PA-02 PAL PD ..CALCULATION/ PHONON DISPERSION/ PHONON DENSITY/ DEBYE TEMPERATURE
73-PA-03 PAL, SINGH PD ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ SPECIFIC HEAT/ KREBS MODEL
73-SH-05 SHUKLA, CAVALHEIRO CU/ AG/ AL/ NI/ PD ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ FOURTH NEIGHBOURS FORCE
74-GO-01 GOEL, PANDEY+ AG/ PD/ PT ..PHONON DISPERSION RELATION
75-BE-04 BERTOLO, SHUKLA NI/ PD/ PT ..THEORY/ PHONON DISPERSION/ MODIFIED BHATIA MODEL

2. 51 PLATINUM PT
68-OH-01 OHRlich, DREXEL PT ..EXPERIMENT/ LATTICE DYNAMICS/ TOF/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
71-KO-01 KONTI PT ..THEORY/ ANGULAR FORCE MODEL/ DISPERSION CURVE/ FREQUENCY SPECTRA/ DEBYE-WALLER FACTOR/ DEB
72-DU-03 DUTTON, BROCKHOUSE+ PT ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FORCE CONSTANT/ PHONON SPECTRUM/ TE
74-GO-01 GOEL, PANDEY+ AG/ PD/ PT ..PHONON DISPERSION RELATION
75-BE-04 BERTOLO, SHUKLA NI/ PD/ PT ..THEORY/ PHONON DISPERSION/ MODIFIED BHATIA MODEL

75-CA-04 CAVALHEIRO, SHUKLA PT/ TH ..THEORY/ PHONON DISPERSION/ DE-LAUNAY MODEL

2. 52 POTASSIUM K

65-KR-01 KREBS LI/ NA/ K ..THEORY/ SOLID/ DISPERSION RELATION

66-AN-01 ANIMALU, BONSIGNORI+ NA/ K/ AL/ LI/ RB/ CS ..THEORY/ PHONON DISPERSION/ MODEL POTENTIAL

66-CO-02 COWLEY, WOODS+ K ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..9DK

66-GU-03 GUPTA, KISHORE K ..THEORY/ PHONON SPECTRUM/ SPECIFIC HEAT

68-HO-01 HO THEORY-OF-SOLIDS/ NA/ K ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS

69-BO-01 BOFFEY K/ RB ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..ELECTRON-PHONON INTERACTION/ EXC

69-BU-03 BUYERS, COWLEY K ..PHONON LIFETIME/ ANHARMONIC EFFECT/ EXPERIMENT/ THEORY ..9DK/ 215DK/ 299DK/ NEUTRA

69-IC-01 ICHIKAWA, SHIMOJI LI/ NA/ K/ HG/ PB ..DIFFUSION PARAMETER/ LIQUID/ THEORY ..LIQUID METAL/ FRICTION CONSTAN

69-KR-01 KREBS, HOELZL LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES ..PSEUD-ION APPROXIMATION/ FITTING TO

69-PR-02 PRAKASH, JOSHI LI/ NA/ K/ RB/ CS ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYN

70-CO-06 COULTHARD SODIUM/ POTASSIUM/ ALUMINIUM/ LEAD ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..PRESSURE

70-KU-05 KUSHWAHA, RAJPUT THEORY-OF-SOLIDS/ NA/ K ..PHONON DISPERSION CURVE/ METAL/ BCC

70-PR-02 PRICE, SINGWI+ NA/ K/ LI/ RB ..THEORY/ DISPERSION RELATION ..PHONON LIFE TIMES DUE TO ELECTRON-PHONON INTE

70-SI-04 SINGH, PRAKASH LI/ RB/ K/ CS ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION ..ALKALI METAL

71-TR-04 TRIPATHI, BEHARI LI/ NA/ K ..CALCULATION/ PHONON DISPERSION/ BCC METAL/ AXIALLY SYMMETRIC MODEL

72-BA-02 BAJPAI, NEELAKANDAN LI/ NA/ K ..THEORY/ PHONON DISPERSION/ HARD-SPHERE MODEL

72-GR-01 GREENFIELD, WISER+ NA/ K ..THEORY/ LIQUID/ STRUCTURE FACTOR/

72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE

72-SI-03 SINGH, PRAKASH K ..ANHARMONICITY/ DISPERSION CURVE/ THEORY

73-DU-01 DUESBERY, TAYLOR+ NA/ K ..EFFECTIVE PAIR POTENTIAL/ RADIAL DISTRIBUTION FUNCTION/ LIQUID

74-AI-01 AILAWADI, BANERJER+ K/ LI/ RB ..PHONON DISPERSION RELATION/ KREBS MODEL

74-DA-01 DA-CUNHA-LIMA, BRESCANSIN+ THEORY-OF-FLUIDS/ NA/ K ..LIQUID METAL/ ELECTRON THEORY/ STRUCTURE FACTOR/ THERMAL EXPANS

74-HA-05 HASEGAWA, WATABE K ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ SPECIFIC HEAT

74-PA-02 PAL, SEITH K ..THEORY/ LATTICE DYNAMICS/ PHONON DISPERSION/ ANGULAR FORCE MODEL

74-PR-01 PRAKASH, PATHAK+ K/ RB/ LI ..THEORY/ PHONON DISPERSION/ METAL/ MODIFIED SHARMA-JOSHI MODEL

75-GO-01 GOEL, PANDEY+ NA/ K ..THEORY/ PHONON DISPERSION/ METAL/ MODIFIED SHARMA-JOSHI MODEL

2. 53 RUBIDIUM RB

66-AN-01 ANIMALU, BONSIGNORI+ NA/ K/ AL/ LI/ RB/ CS ..THEORY/ PHONON DISPERSION/ MODEL POTENTIAL

66-PA-03 PASKIN REVIEW-ARTICLES/ AR/ NA/ CE/ RB ..LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTOCORRELATION FU

67-CO-01 COCKING AL/ PB/ BI/ RB/ SN ..SOLID/ LIQUID/ DISPERSION RELATION/ EXPERIMENT

68-CO-08 COPLEY, BROCKHOUSE+ RB ..EXPERIMENT/ DISPERSION RELATION ..120DK

69-BO-01 BOFFEY K/ RB ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..ELECTRON-PHONON INTERACTION/ EXC

69-KR-01 KREBS, HOELZL LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES ..PSEUD-ION APPROXIMATION/ FITTING TO

69-PA-01 PAGE, EGELSTAFF+ AR/ RB ..LIQUID/ STRUCTURE FACTOR

69-PR-02 PRAKASH, JOSHI LI/ NA/ K/ RB/ CS ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYN

70-PA-02 PAL ..THEORY/ FREQUENCY SPECTRUM/ DEBYE TEMP.

70-PR-02 PRICE, SINGWI+ NA/ K/ LI/ RB ..THEORY/ DISPERSION RELATION ..PHONON LIFE TIMES DUE TO ELECTRON-PHONON INTE

70-SI-04 SINGH, PRAKASH LI/ RB/ K/ CS ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION ..ALKALI METAL

71-EG-01 EGELSTAFF, PAGE+ RB/ AR/ C.CL4 ..EXPERIMENT/ TRIPLET CORRELATION FUNCTION/ THEORY

72-EG-02 EGELSTAFF, WANG RB/ NE ..THEORY/ EXPERIMENT/ LIQUID/ STRUCTURE FACTOR ..DENSITY DEPENDENT POTENTIAL

72-EG-03 EGELSTAFF, PAGE+ RB ..MEAN SQUARE FORCE

72-SC-01 SCHOMMERS RB ..SCATTERING LAW/ FLUID STATE/ STRUCTURE FACTOR

72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE

72-SI-03 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ PHONON DISPERSION

- 72-SU-01 SUCK, GLAESER RB ..EXPERIMENT/ LIQUID AND SOLID/ COLLECTIVE EXCITATION
73-CO-02 COPLEY, BROCKHOUSE RB ..EXPERIMENT/ PHONON DISPERSION/ 12,85,120,205K/ HARMONIC ANALYSIS/ PHONON DENSITY
73-CO-03 COPLEY RB/ NEUTRON-SCATTERING-IN-SOLIDS ..ANHAMONICITY/ DISPERSION CURVE
73-SE-01 SEARS NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS ..THEORY/ FUUID/ SCATTERING FUNCTION
74-BA-01 BARKER, GASKELL NEUTRON-SCATTERING-IN-FLUIDS/ RB ..TRIPLE-PEAKS
74-CO-03 COPLEY, ROWE RB/ NEUTRON-SCATTERING-IN-FLUIDS ..DISPERSION CURVE/ ZERO SOUND/ LIQUID
74-CO-04 COPLEY, ROWE RB ..SCATTERIN LAW/ COHERENT SCATTEKING/ EXPERIMENT
74-DA-01 DA-CUNHA-LIMA, BRESCANSIN+ K/ LI/ RB ..PHONON DISPESION RELATION/ KREBS MODEL
74-PR-01 PRAKASH, PATHAK+ RB/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LATTICE DYNAMICS/ PHONON DISPERSION/ ANGULAR FORCE MODEL
74-RA-02 RAHMAN RB/ NEUTRON-SCATTERING-IN-FLUIDS ..DISPESION CURVE/ ZERO SOUND
74-RA-03 RAHMAN RB ..MOLECULAR DYNAMIC CALCULATION/ LIQUID
75-BL-04 BLOCK, SCHOMMERS RB/ THEORY-OF-FLUIDS ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ CORRELATION FUNCTION ..TRIPLET
75-RO-01 ROSENGREN, JOHANSSON RB ..THEORY/ PHONON DISPERSION AND SPECTRA/ PSEVDOPOTENTIAL CALCULATION
75-SC-01 SCHOMMERS RB ..THEORY/ LIQUID/ VELOCITY AUTOCORRELATION FUNCTION/ FREQUENCY DISTRIBUTION
2. 54 SCANDIUM SC
- 71-WA-01 WAKABAYASHI, SINHA+ SC ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON DENSITY/ DEBYE TEMPERATURE
73-BO-03 BOSE, GUPTA+ SC ..THEORY/ PHONON DISPERSION/ FIVE PARAMETER
73-RA-04 RAO, MENON SC ..THEORY/ PHONON DISPERSION/ SECOND ORDER ELASTIC CONSTANT/ KEATING METHOD
74-KA-05 KAUR, KUSHWAHA SC ..THEORY/ PHONON DISPERSION
75-SI-07 SINGH, PRAKASH SC/ Y ..CALCULATION/ PHONON DISPERSION/ HCP METAL
75-SI-09 SINHA, UPADHYAYA SC/ Y/ ZR ..THEORY/ PHONON DISPERSION/ KREB MODEL
2. 55 SELENIUM SE
- 51-EG-01 EGELSTAFF H/ BE/ V/ SE/ MO/ FE ..SOLID/ EXPERIMENT/ TRANSMISSION
67-AX-01 AXMANN, GISSLER SE/ TE ..EXPERIMENT/ TOF/ POLYCRYSTAL
67-GE-02 GEICK, SCHROEDER+ SE ..INFRARED EXPERIMENT/ CALCULATION/ PHONON DISPERSION
67-HE-01 HENNINGER, BUSCHERT+ SE ..SIGMATHETA,EJ/ CORRELATION FUNCTION/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION E
67-KO-05 KOTOV, OKUNEVA+ SE ..EXPERIMENT/ FREQUENCY SPECTRA/ AMORPHOUS AND CRYSTAL SE
68-GI-02 GISSLER, AXMANN+ SE/ TE ..EXPERIMENT/ SOLID/ LIQUID/ TOF/ 3-AXIS-SPECTROMETER ..340DC FOR SE/ 450DC FOR TE
72-KO-02 KOLLMAR SE ..EXPERIMENT/ QUASIELASTIC SCATTERING/ LIQUID STATE
72-NA-03 NAKAYAMA, ODAJIMA SE ..THEORY/ VALENCE-FORCE-FIELD/ ELASTIC CONSTANT
73-BR-01 BRENER, JANDL+ GA/ SE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ INELASTIC NEUTRONSCATTERING
73-NA-02 NAKAYAMA, ODAJIMA SE ..THEORY/ PHONON DISPERSION/ VALENCE FORCE FIELD/ SIX FORCE CONSTANTS
74-HA-03 HAMILTON, LASSIER+ SE ..EXPERIMENT/ DISPERSION RELATION/ INTERATOMIC FORCE CONSTANT ..THREE-AXIS-SPECTROME
74-TE-01 TEUCHERT, GEICK SE/ TE ..THEORY/ PHONON DISPERSION
2. 56 SILICON SI
- 59-BR-03 BROCKHOUSE GE/ SI ..EXPERIMENT/ DISPERSION RELATION
61-DO-01 DOLLING SI ..EXPERIMENT/ DISPERSION RELATION
63-DO-01 DOLLING SI ..EXPERIMENT/ DISPERSION RELATION
63-DO-02 DOLLING SI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ MODIFIED SHELL MODEL/ ROOM TEMPERATURE
65-DO-04 DOLLING GE/ SI ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
65-SL-01 SLATER V/ SI/ CU/ NEUTRON-SCATTERING-IN-SOLIDS ..HARMONIC APPROXIMATION/ DEBYE APPROXIMATION
66-DO-02 DOLLING, COWLEY GE/ SI/ DIAMOND/ GA,AS ..COHERENT INELASTIC SCATTERING STUDIES/ PHONON DISPERSION
68-MA-07 MARTIN SI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION

70-PA-01 SI ..THEORY/ DISPERSION RELATION
 70-SI-06 SI ..THEORY/ PHONON DISPERSION/ SIX VALENCE FORCE MODEL
 70-SO-01 SI ..THEORY/ SOLID/ DISPERSION RELATION/ LATTICE DYNAMICS/ FORCE CONSTANTS ..VALENCE FORCE
 DIAMOND/ GE/ SI ..THEORY/ PHONON DISPERSION/ THERMAL PROPERTIES/ ANHARMONIC INTERACTION
 71-JE-03 JEX
 71-SO-02 SI ..THEORY/ PHONON DISPERSION/ VALENCE FORCE POTENTIAL
 72-JE-01 GE/ SI ..THEORY/ PHONON/ ANHARMONIC INTERACTION
 72-NI-03 NILSSON, NELIN GE/ SI ..LATTICE DYNAMICS/ NEUTRON SPECTROSCOPY
 72-TH-02 THOMA, ZIMMERMANN SI ..CALCULATION/ SURFACE PHONON
 72-TU-01 DIAMOND/ SI/ GE/ SN ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL
 73-PA-05 SI/ GE ..THEORY/ PHONON DISPERSION/ CLARK-GAZIS-WALLIS TYPE ANGULAR FORCE MODEL/ FOUR PARAME
 73-TH-01 GE/ SI ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..BORN MODEL
 74-JO-02 THEORY-OF-SOLIDS/ DIAMOND/ SI ..PHONON DISPERSION/ BOND CHARGE MODEL
 74-NE-06 JOHNSEN, MOORE SI ..PHONON SPECTRUM/ EFFECT OF SURFACE/ EXPERIMENT
 75-AL-01 NESTERENKO, GORBACHEV+ SI/ GE ..EXPERIMENT/ RAMAN, IR SPECTRA/ PHONON SPECTRA/ NUMERICAL CALCULATION/ PREDICTION FO
 75-AL-02 ALBEN, WEAIRE+ SI/ GE ..EXPERIMENT/ RAMAN, IR SPECTRA/ PHONON SPECTRA/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL METH
 75-CH-02 ALTSHULER, VEKILOV+ SI/ GE ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS ..AMORPHOUS SOLID/ RIGID ION MODEL
 CHEN, VETELINO+ GE/ SI ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION ..AMORPHOUS SOLID/ RIGID ION MODEL

2. 57 SILVER

AG

69-DR-01 DREXEL, GLAESER+ AG ..DISPERSION RELATION/ BORN-VON KARMAN MODEL/ EXPERIMENT ..ROOM TEMPERATUR/ PSEUDORAND
 69-KA-02 KAMITAKAHARA, BROCKHOUSE AG ..DISPERSION RELATION/ EXPERIMENT/ CONSTANT-0 METHOD ..ROOM TEMPERATURE
 70-BE-03 BEHARI, TRIPATHI CU/ AG/ AU ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..NON-CENTRAL FORCE MODEL/ EL
 70-SH-04 SHARAN, BAJPAI AG ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATIONS/ SPECIFIC HEAT
 70-VA-01 VADOVIC, COLVER AG/ GA/ HG/ NA/ PB/ SN/ ZN ..THEORY/ SELF-DIFFUSION CONSTANT
 71-DR-01 DREXEL AG ..EXPERIMENT/ PHONON DISPERSION
 71-NI-04 NIKULIN, TSAREV AG ..CALCULATION/ PHONON FREQUENCY
 71-SH-01 SHARMA, SINGH CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ METAL
 71-SI-01 SINGH, SHARMA CU/ AG/ AU/ AL/ NI/ NA/ CR/ FE ..THEORY/ DEBYE-WALLER FACTOR
 72-DR-01 DREXEL AG ..EXPERIMENT/ PSEUDOPOTENTIAL ANALYSIS/ PHONON DISPERSION
 73-SH-05 SHUKLA, CAVALHEIRO CU/ AG/ AL/ NI/ PD ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ FOURTH NEIGHBOURS FORCE
 73-SI-01 SINGH, PRAKASH CU/ AG/ AU ..THEORY/ PHONON DISPERSION
 74-GO-01 GOEL, PANDEY+ AG/ PD/ PT ..PHONON DISPERSION RELATION
 74-GO-02 GOEL, PANDEY+ CU/ AG ..THEORY/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANT/ DISPERSAION RELATION ..ELECTRO
 75-CL-01 GOEL, SHUKLA CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ SPECIFIC HEAT
 75-GO-02 GOPALARAO, MURTHY COPPER/ GOLD/ SILVER ..LIQUID NOBLE METAL ..STRUCTURE FACTOR

2. 58 SODIUM

NA

58-TO-02 TOYA NA ..THEORY/ SOLID/ LATTICE DYNAMICS
 62-CO-01 COCKING, TURBERFIELD NA ..EXPERIMENT/ TOF SPECTRA ..110DC/ 80DC
 62-WO-01 WOODS, BROCKHOUSE+ NA ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 62-WO-02 WOODS, BROCKHOUSE+ NA ..EXPERIMENT/ SOLID/ DISPERSION RELATION ..90 DK
 63-CO-01 COCHRAN NA ..THEORY/ SOLID/ DISPERSION RELATION
 63-CO-04 COCKING NA ..EXPERIMENT/ LIQUID ..DOUBLE DIFFERENTIAL CROSS SECTION
 64-RA-02 RANDOLPH NA ..SCATTERING LAW / STRUCTURE FACTOR/ LIQUIDS
 65-KR-01 KREBS LI/ NA/ K ..THEORY/ SOLID/ DISPERSION RELATION
 65-PR-01 PRAKASH, JOSHI NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 65-SH-01 SHAM NA ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 65-SI-03 SINGWI, FELDMANN NA ..THEORY/ SCATTERING FUNCTION/ LIQUID ..PHONON IN LIQUID
 66-AN-01 ANIMALU, BONSIGNORI+ NA/ K/ AL/ LI/ RB/ CS ..THEORY/ PHONON DISPERSION/ MODEL POTENTIAL

66-BR-05 BRUGGER METHANE/ ETHANE/ AL/ NA/ PB/ AR ..COMPILATION/ SCATTERING FUNCTION
66-DI-01 DIEDERICH, TRIVISONNO NA ..EXPERIMENT ..SINGLE CRYSTAL/ 78 DK TO 195 DK/ ULTRASONIC PULSE ECHO TECHNIQUE
66-OE-01 OEHME, RICHTER CS/ BI/ NA ..STRUCTURE FACTOR
66-PA-02 PASKIN NA ..THEORY/ LIQUID ..MOLECULAR POTENTIAL/ RADIAL DENSITY FUNCTION
66-PA-03 PASKIN REVIEW-ARTICLES/ AR/ NA/ CE/ RB ..LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTOCORRELATION FU
66-RO-01 ROSENSTOCK, BLANKEN NA/ NB/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELATION ..FORCE CONSTANTS FOR BORN-
67-BJ-01 BUJERKMAN, GRIMVALL NA ..THEORY/ PHONON POLARIZATION/ KREBS MODEL
67-FE-01 FEJZIGER, FEINSTEIN NEUTRON-SCATTERING-IN-FLUIDS/ NA ..SCATTERING THEORY/ GAS/ LIQUID/
67-FE-02 FEJZIGER, FEINSTEIN NA/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID-DYNAMICS
67-HO-01 HO, RUOFF NA ..THEORY/ PHONON DISPERSION/ QUASI-HARMONIC MODEL
67-HO-02 HO, RUOFF NA ..THEORY/ PHONON DISPERSION/ QUASI-HARMONIC CALCULATION
67-RA-05 RANDOLPH NA ..EXPERIMENT/ LIQUID
68-AG-02 AGRAWAL, DESAI+ NEUTRON-SCATTERING-IN-FLUIDS/ AR/ NA/ PB/ METHANE ..THEORY ..MODEL CALCULATION
68-AR-01 ARDENTE, NARDELL+ AR/ NA ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION
68-CO-04 COCKING NA/ PB ..EXPERIMENT/ LIQUID/ ..LIQUID DYNAMICS
68-HO-01 HO THEORY-OF-SOLIDS/ NA/ K ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS
68-OZ-01 OZELTON, SWALIN NA ..DIFFUSION COEFFICIENT/ LIQUID
68-RA-02 RANDOLPH NA ..SCATTERING FUNCTION/ EXPERIMENT/ LIQUID ..375.8DK/ QUASI-ELASTIC/ INELASTIC
68-RA-03 RANDOLPH NA ..EXPERIMENT/ TOF ..102DC/ SMALL MOMENTUM TRANSFER/ DIFFUSIVE AND COLLECTIVE EXCITATION
68-SC-06 SCHNEIDER, STOLL NA/ MG/ AL ..THEORY/ LATTICE DYNAMICS ..ELECTRONIC STRUCTURE/ METAL
69-CO-02 COCKING NA ..QUASI-ELASTIC PEAK/ TOF/ SCATTERING LAW/ MEAN SQUARE DISPLACEMENT/ EXPERIMENT/ LIQUID/ DIFF
69-DE-02 DESAI, YIP NA/ PB ..THEORY/ LIQUID/ SCATTERING FUNCTION ..LIQUID METAL
69-IC-01 ICHIKAWA, SHIMOJI LI/ NA/ K/ HG/ PB ..DIFFUSION PARAMETER/ LIQUID/ THEORY ..LIQUID METAL/ FRICTION CONSTAN
69-KR-01 KREBS, HOELZL LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES ..PSEUD-ION APPROXIMATION/ FITTING TO
69-PR-01 PRAKASH, JOSHI NA ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMICS ..PHONON/ POTENTIAL/ METAL
69-PR-02 PRAKASH, JOSHI LI/ NA/ K/ RB/ CS ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYN
70-BE-02 BEHARI, TRIPATHI NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..BCC METAL
70-CO-06 COUTHARD SODIUM/ POTASSIUM/ ALUMINIUM/ LEAD ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..PRESSURE
70-GE-01 GELDART, TAYLOR+ NA ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATURE/ THORY/ LATTICE DYNAM
70-JA-01 JAIN, SAXENA+ NA ..SCATTERING LAW/ THEORY/ LIQUID/ CORRELATION FUNCTION ..LIQUID METAL/ RESPONSE FUNCTION/
70-KO-02 KOLLMANNBERGER, FRITSCH+ NA ..EXPERIMENT/ X-RAY/ LIQUID ..STRUCTURE FUNCTION/ 102DC/ 149DC
70-KU-05 KUSHWAHA, RAJPUT THEORY-OF-SOLIDS/ NA/ K ..PHONON DISPERSION/ PSEUDOPOTENTIAL MODEL
70-MA-05 MARTINELLI NA ..THEORY/ BAND STRUCTURE/ PHONON DISPERSION/ LIQUID METAL
70-NA-01 NAKAHARA NA ..THEORY/ SCATTERING LAW/ LIQUID ..VLASOV EQUATION/ LIQUID METAL
70-PR-02 PRICE, SINGWI+ NA/ K/ LI/ RB ..THEORY/ DISPERSION RELATION ..PHONON LIFE TIMES DUE TO ELECTRON-PHONON INTE
70-VA-01 VADOVIC, COLVER AG/ GA/ HG/ NA/ PB/ SN/ ZN ..THEORY/ SELF-DIFFUSION CONSTANT
71-BA-03 BAJPAI, NEELAKANDAN NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE/ AXIALLY SYMMETRIC MODEL
71-ER-02 ERNST NA ..EXPERIMENT/ PHONON FREQUENCY/ PRESSURE EFFECT
71-GR-01 GREENFIELD, WISER AR/ NA/ PB ..EXPERIMENT/ STRUCTURE FACTOR ..X-RAY DIFFRACTION
71-JA-01 JAIN, BHANDARI AR/ NA ..THEORY/ MEMORY FUNCTION/ LIQUID DYNAMICS
71-MI-02 MILLINGTON, SWIRES NA ..EXPERIMENT/ PHONON DISPERSION
71-NA-01 NAKAHARA NEUTRON-SCATTERING-IN-FLUIDS/ NA ..THEORY/ SCATTERING SIGMA/ LIQUID METAL
71-TR-04 TRIPATHI, BEHARI LI/ NA/ K ..CALCULATION/ PHONON DISPERSION/ DEBYE TEMP.
71-WE-01 WERNER, PYNNA NA ..PHONON DISPERSION
72-BA-02 BAJPAI, NEELAKANDAN LI/ NA/ K ..THEORY/ PHONON DISPERSION/ BCC METAL/ AXIALLY SYMMETRIC MODEL
72-GL-01 GLYDE, TAYLOR NA ..THEORY/ PHONON DISPERSION/ LIFE TIME/ ANHARMONIC/ 5, 90, 160, 293, 361K
72-GR-01 GREENFIELD, WISER+ NA/ K ..THEORY/ LIQUID/ STRUCTURE FACTOR/ HARD-SPHERE MODEL
72-KO-03 KOTHARI, SINGHAL NA ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..ANGULAR FORCE
72-MI-02 MITRA SODIUM ..VELOCITY AUTOCORRELATION
72-SH-06 SHUKLA, DA-GUNHA-LIMA+ NA ..THEORY/ PHONON DISPERSION
72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE
72-SI-03 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ PHONON DISPERSION

72-TO-03 TONG NA ..THEORY/ LOCAL-EFFECTIVE-POTENTIAL APPROX./ LATTICE PARAMETER/ COMPRESSIBILITY/ COHESIVE EN
 73-BA-02 BARKER, GASKELL NA ..THEORY/ S(O,OMEGA)/ LIQUID/ HYDRODYNAMIC APPROACH
 73-FR-02 FRITSCH, GEIPEL+ NA ..EXPERIMENT/ ULTRASONIC PULSE ECHO/ ELASTIC CONSTANT
 73-MJ-06 MITRA THEORY-OF-FLUIDS/ NA ..MEMORY FUNCTION/ SELF DIFFUSION CONSTANT
 73-PA-06 PATHAK, SINGWI+ NA ..THEORY/ LIQUID/ COLLECTIVE MOTION/ STRUCTURE FACTOR/ SCATTERING FUNCTION
 73-SH-09 SHUKLA, SALZBERG NA ..THEORY/ PHONON DISPERSION/ BHATTIA MODEL
 74-AI-01 AILAWADI, BANERJER+ NA/ K ..EFFECTIVE PAIK POTENTIAL/ RADIAL DISTRIBUTION FUNCTION/ LIQUID
 74-HA-05 HASEGAWA, WATABE THEORY-OF-FLUIDS/ NA/ K ..LIQUID METAL/ ELECTRON THEORY/ STRUCTURE FACTOR/ THERMAL EXPANS
 74-NE-07 NEWMAN NA ..THEORY/ FREQUENCY DISTRIBUTION ..F-G MATRIX METHOD
 75-BA-01 BARKER, GASKELL NA ..THEORY-OF-FLUIDS/ NA ..LIQUID METALS/ DAMPING OF COLLECTIVE MODE/ LONG-RANGE OSCILLATORY I
 75-GO-01 GOEL, PANDEY+ NA/ K ..THEORY/ PHONON DISPERSION/ METAL/ MODIFIED SHARMA-JOSHI MODEL
 75-KU-01 KUMAR, TOLPADI COPPER/ SODIUM ..DISPERSION RELATION
 75-RE-01 REISSLAND, ESE AL/ NA/ MG/ IN/ TL ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ MODEL POTENTIAL CALCULATION

2. 59 STRONTIUM SR

73-PR-01 PRASAD, SRIVASTAVA BA/ SR/ CA ..THEORY/ SOLID / DISPERSION RELATION/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL
 73-SW-01 SWAROOP, BOHRA+ CA/ SR ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ DEBYE TEMP./ SHARMA-JOSHI MODEL

2. 60 SULPHUR S

71-PA-04 PAWLEY, RINALDI+ S ..THEORY/ EXPERIMENT/ PHONON DISPERSION
 74-PA-10 PAWLEY, MIKA NAPHTHALENE/ ANTHRACENE/ SULPHUR ..THEORY/ PRESSURE EFFECT/ LATTICE DYNAMICS/ PHONON DISPERSI
 75-LU-01 LUTY, PAWLEY S ..THEORY/ PHONON DISPERSION/ SHELL MODEL

2. 61 TANTALUM TA

64-WO-02 WOODS TA ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 65-WO-01 WOODS NB/ TA/ MO/ W ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-RO-01 ROSENSTOCK, BLANKEN NA/ NB/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELATION ..FORCE CONSTANTS FOR BORN-
 72-BA-05 BAJPAI, NEELAKANDAN FE/ NB/ TA/ W ..THEORY/ PHONON DISPERSION/ BCC METAL/ MODIFIED AXIALLYSYMMETRIC MODEL

2. 62 TECHNETIUM TC

72-SM-02 SMITH, WAKABAYASHI+ NB.C/ ZR.C/ TC/ ZR/ Y ..EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION

2. 63 TELLURIUM TE

65-HU-01 HULIN TE ..THEORY/ SOLID/ LATTICE DYNAMICS
 67-AX-01 AXMANN, GISSLER SE/ TE ..EXPERIMENT/ TOF/ POLYCRYSTAL
 68-GI-02 GISSLER, AXMANN+ SE/ TE ..EXPERIMENT/ SOLID/ LIQUID/ TOF/ 3-AXIS-SPECTROMETER ..340DC FOR SE/ 450DC FOR TE
 72-ME-02 MENON, RAO TE ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 73-CO-04 COWLEY TE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..BOND CHARGE MODEL
 74-TE-01 TEUCHERT, GEICK SE/ TE ..THEORY/ PHONON DISPERSION
 75-PO-03 POWELL, MARTEL TE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATUR

2, 64 TERBIUM

TB

70-HO-02 HOUMANN, NICKLOW TB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES/ CONST.,-0 METHOD ..FREQUENCY SPECTRA
 73-UP-01 UPADHYAYA, VERMA Y/ TB ..THEORY/ PHONON DISPERSION/ SHARMA-JOSHI MODEL

2, 65 THALLIUM

TL

68-NO-01 NORTH, ENDERBY+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ..LIQUID METAL/ 340DC-11000
 70-SH-03 SHARAN, BAJPAL BE/ MG/ TL ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..HEXAGONAL METAL
 71-KU-02 KUSHWAHA BE/ TL ..NON-CENTRAL FORCE MODEL
 71-KU-05 KUSHWAHA, RAJPUT TL ..CALCULATION/ KREB MODEL/ PHONON DISPERSION/ DEBYE TEMP.
 71-WO-01 WORLTON, SCHMUNK TL ..EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRA ..77DK/ 296DK
 72-BA-01 BAJPAL MG/ ZR/ Y/ TI/ TL/ HF ..THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE
 72-ME-03 MENON, RAO TL ..THEORY/ PHONON DISPERSION/ SECOND ORDER ELASTIC CONSTANT
 73-KU-04 KUSHWAHA MG/ BE/ TL ..THEORY/ PHONON DISPERSION/ SHORT-RANGE CLOSED-SHELL AND IONIC INTERACTION
 73-UP-02 UPADHYAYA, VERMA BE/ MG/ HO/ TL ..THEORY/ PHONON DISPERSION/ MODIFIED SHARMA-JOSHI MODEL
 75-RE-01 REISSLAND, ESE AL/ NA/ MG/ IN/ TL ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ MODEL POTENTIAL CALCULATION

2, 66 THORIUM

TH

73-RE-01 REESE, SINHA THORIUM ..EXPERIMENT/ PHONON DISPERSION/ FORCE CONSTANT ANALYSIS/ PHONON SPECTRA/ DEBYE TEMPE
 75-CA-04 CAVALHEIRO, SHUKLA PT/ TH ..THEORY/ PHONON DISPERSION/ DE-LAUNAY MODEL

2, 67 TIN

SN

61-PA-01 PALEVSKY H2,O/ PB/ SN ..EXPERIMENT/ LIQUID ..ROOM TEMP., 45DC FOR H2,O/ 462DC FOR PB/ 350DC FOR SN/ BE-F
 63-BR-02 BROCKHOUSE, BERGSMAN+ SN/ H2,O/ AR/ HE ..EXPERIMENT/ LIQUID
 63-CO-05 COCKING, GUNER SN ..EXPERIMENT/ SOLID/ LIQUID
 63-EG-03 EGELSTAFF PB/ SN ..EXPERIMENT/ SCATTERING FUNCTION/ LIQUID
 63-MU-01 MUSGRAVE SN ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION
 63-WO-01 WOLFRAM, LEHMAN+ SN ..THEORY/ SOLID/ DISPERSION RELATION
 64-DE-01 DE-WAMES, LEHMAN SN ..THEORY/ SOLID/ LATTICE DYNAMICS
 65-BO-01 BORGONOV, CAGLIOTI+ SN ..EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RELATION ..ROOM TEMPERATURE/ BODY C
 65-BR-03 BROVMAN, KAGAN SN ..SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 65-LO-03 COCKING, EGELSTAFF PB/ SN ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
 65-LU-02 LONG-PRICE SN ..EXPERIMENT/ TOF/ DISPERSION RELATION ..ROOM TEMPERATURE/ BODY CENTERED TETRAGONAL
 65-MU-01 MUSGRAVE SN ..THEORY/ SOLID/ LATTICE DYNAMICS
 65-PA-02 PALEVSKY PB/ H2,O/ SN ..EXPERIMENT/ LIQUID
 65-RO-04 ROWE, BROCKHOUSE+ SN ..EXPERIMENT/ DISPERSION RELATION ..BODY CENTERED TETRAGONAL
 65-SC-02 SCHMUNK, GAUIN SN ..EXPERIMENT/ DISPERSION RELATION ..BODY CENTERED TETRAGONAL CRYSTAL
 66-BR-03 BROVMAN, KAGAN SN ..THEORY/ PHONON DISPERSION AND STATE DENSITIES/ HEAT CAPACITY/ DEBYE TEMPERATURE/ WHITE
 66-EG-01 EGELSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
 67-BR-02 BROVMAN, KAGAN SN/ SN,O2 ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS/ BORN-VON
 67-CH-01 CHEN SN ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES
 67-CO-01 COCKING AL/ PB/ BI/ RB/ SN ..SOLID/ LIQUID/ DISPERSION RELATION/ EXPERIMENT
 67-KA-04 KAY, RITTER SN ..SCATTERING AMPLITUDE/ EXPERIMENT
 67-ME-01 MEYERS SN ..EXPERIMENT/ PHONON SPECTRUM
 67-MY-01 MYERS SN ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..COLD NEUTRON FACILITY/ ODC/
 67-PR-01 PRICE SN ..SOLID/ EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CONDUCTION ELECTRON

67-RO-01 ROWE SN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..110DK
 68-KO-05 KOTOV, OKUNEVA+ SN ..EXPERIMENT/ PHONON SPECTRA/ SPECIFIC HEAT
 68-NO-01 NORTH, ENDERBY+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ..LIQUID METAL/ 340DC-1100D
 69-PR-06 PRICE, ROWE SN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES/ CONST.-0/ FREQUENCY SPECTRUM ..90DK/ 250
 71-PR-04 PRICE, ROWE+ SN/ IN.SB ..EXPERIMENT/ PHONON DISPERSION CURVE ..90DK FOR SN/ 300DK FOR IN.SB
 71-PR-05 PRICE, ROWE SN/ IN.SB ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL CALCULATION
 71-RO-06 ROWELL, MCMILLAN+ SN ..EXPERIMENT/ ELECTRON TUNNELING/ PHONON SPECTRUM
 72-KA-03 KAM, GILAT SN ..THEORY/ PHONON DISPERSION/ STATE DENSITY/ MODEL POTENTIAL
 72-KA-05 KAMMER, CARDINAL+ BI/ SN ..EXPERIMENT/ ELASTIC CONSTANT
 72-KR-01 KRESS GE/ SN ..THEORY/ PHONON DISPERSION/ MODIFIED SHELL MODEL
 72-TU-01 TUBINO, PISERI+ DIAMOND/ SI/ GE/ SN ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL
 74-SO-01 SOMA SN ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL

2. 68 TITANIUM

Ti

65-MO-03 MOZER, OTNES+ NI/ V/ TI/ Tl-ZR ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION
 68-NO-03 NORTH, ENDERBY+ PB/ TI ..STRUCTURE FACTOR
 70-SH-06 SHARAN, BAJPAI Y/ TI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE
 72-BA-01 BAJPAI MG/ ZR/ Y/ TI/ TL/ HF ..THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE
 72-KU-04 KUSHWAHA, KUMAR TI/ HF/ Y ..THEORY/ PHONON DISPERSION/ H.C.P. TRANSITION METAL
 73-RA-02 RAO, MENON TI ..THEORY/ PHONON DISPERSION/ SOE CONSTANT/ THERMAL EXPANSION/ KEATING-S APPROCH

2. 69 TUNGSTEN

W

64-CH-01 CHEN, BROCKHOUSE W ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 65-PA-01 PAL, SHARMA W ..THEORY/ PHONON DISPERSION
 65-WO-01 WOODS NB/ TA/ MO/ W ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 66-MA-02 MAHESH, DAYAL FE/ MO/ W ..THEORY/ PHONON DISPERSION AND FREQUENCY DISTRIBUTION
 66-RO-01 ROSENSTOCK, BLANKEN NA/ NB/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELATION ..FORCE CONSTANTS FOR BORN-
 67-GI-02 GILAT CR/ FE/ W ..THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRA/ BCC METALS
 70-AL-01 ALEXANDROV, KOESTER+ W ..EXPERIMENT/ SCATTERING AMPLITUDE/ SMALL ANGLE SCATTERING
 70-AL-02 ALEXANDROV, BALAGUROV+ W ..EXPERIMENT/ DEBYE-WALLER FACTOR
 72-BA-05 BAJPAI, NEELAKANDAN FE/ NB/ TA/ W ..THEORY/ PHONON DISPERSION/ BCC METAL/ MODIFIED AXIALLYSYMMETRIC MODEL
 72-BE-01 BEHARI, TRIPATHI FE/ MO/ W ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA
 75-UP-03 UPADHYAYA, SHARMA+ FE/ W/ MO/ V/ NB/ TA ..LATTICE DYNAMICS/ DISPERSION RELATION/ TRANSITION METAL/ THEORY/

2. 70 URANIUM

U

66-BE-03 BESHAI U/ U.O2/ TH.O2 ..EXPERIMENT/ TOTAL CROSS SECTION/ TOF
 66-SI-01 SIMPSON, MOORE+ U ..EXPERIMENT/ SIGMA(E) ..0.01EV-10000EV

2. 71 VANADIUM

V

51-EG-01 EGELSTAFF H/ BE/ V/ SE/ MO/ FE ..SOLID/ EXPERIMENT/ TRANSMISSION
 51-MC-01 MCREYNOLDS, WEISS V ..EXPERIMENT/ TOTAL CROSS SECTION ..TOTAL REFLECTION FROM MIRROR SURFACE OF V
 58-EI-01 EISENHAUER, PELAH+ V ..EXPERIMENT/ FREQUENCY DISTRIBUTION
 58-ST-01 STEWART, BROCKHOUSE V/ MN-CO ..EXPERIMENT/ FREQUENCY DISTRIBUTION
 61-TU-01 TURBERFIELD, EGELSTAFF V ..EXPERIMENT/ SOLID/ FREQUENCY SPECTRUM

62-TU-02 TURBERFIELD, EGELSTAFF V ..EXPERIMENT
 63-HA-01 HAAS, KLEY+ V ..SCATTERING LAW/ FREQUENCY DISTRIBUTION
 63-PE-01 PELAH, HAAS+ V ..FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS
 63-ZE-01 ZEMLYANOV, KAGAN+ V ..DISPERSION RELATION/ FREQUENCY SPECTRUM
 65-BL-01 BLECH, AVERBACH V/ CU ..THEORY/ MULTIPLE SCATTERING
 65-GL-01 GLAESER, CARVALLO+ V ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION/ TOF/ ROTATING CRYSTAL SPECTROMETER ..ROO
 65-MO-03 MOZER, OTNES+ NI/ V/ TI/ ZR ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION
 65-RU-01 RUBIN, PERETTI+ V/ V-H ..EXPERIMENT/ SOLID/ ..ROOM TEMP. FOR V/ 150 DC FOR V-H/ LOCALIZED MODE IN V DUE TO
 65-SL-01 SLATER V/ ST/ CU/ NEUTRON-SCATTERING-IN-SOLIDS ..HARMONIC APPROXIMATION/ DEBYE APPROXIMATION
 65-VE-01 VENKATARAMAN, DENIZ+ V/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR6 ..EXPERIMENT/ ELASTIC SCA
 67-PA-02 PAGE V ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY SPECTRUM
 67-RO-02 ROY, THAPER+ V ..LATTICE DYNAMICS/ EXPERIMENT
 68-MO-01 MOZER V ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOYS/ RESONANT, LOCALIZED MODES
 68-ZE-01 ZEMLYANOV, MIRONOV+ V ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL MODE
 69-BL-01 BLAESER, PERETTI+ NEUTRON-SCATTERING-IN-SOLIDS/ V ..THEORY/ HYDROGEN/ INTERSTITIAL ..NUMERICALS
 70-CO-01 COLELLA, BATTERMAN V ..EXPERIMENT/ X-RAY THERMAL DIFFUSE SCATTERING/ LATTICE DYNAMICS/ DISPERSION CURVES/
 70-KE-03 KEATING V ..EXPERIMENT/ PHONON FREQUENCY DISTRIBUTION
 75-UP-03 UPADHYAYA, SHARMA+ FE/ W/ MO/ V/ NB/ TA ..LATTICE DYNAMICS/ DISPERSION RELATION/ TRANSITION METAL/ THEORY/

2. 72. XENON

XE

70-GL-01 GLYDE NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY
 70-LE-02 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS/ ANHARMONICITY ..THERMODYNAMICAL PROPERTIES
 70-LE-03 LEECH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS
 71-GU-02 GUPTA, GUPTA AR/ KR/ XE ..THEORY/ PHONON DISPERSION AND SPECTRA/ ANHARMONIC POTENTIAL
 71-HU-01 HUELLER THEORY-OF-SOLIDS/ ARGON/ KRYPTON/ XENON ..CAUCHY-RELATION
 72-JO-01 JOGI, TRIPATHI+ XE ..THEORY/ PHONON DISPERSION AND SPECTRA/ ELASTIC FORCE MODEL
 73-PA-04 PALMER, SAUNDERSON+ XE ..DISPERSION CURVE ..(111)-DIRECTION
 74-KA-02 KANNEY, HORTON XE ..DISPERSION-CURVES ..THEORY/ MIE-LENNARD-JONES-POTENTIAL
 74-LU-01 LURIE, SHIRANE+ XE ..EXPERIMENT/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ BORN-VON KMODEL ..SPECIFIC H
 75-GA-01 GARG, GUPTA NE/ AR/ KR/ XE ..LATTICE DYNAMICS/ ANHARMONICITY/ CENTRAL FORCE MODEL/ DISPERSION RELATION
 75-GU-01 GUPTA, GARG XE ..THEORY/ PHONON DISPERSION/ QUASIHARMONIC CENTRAL FORCE RIGID-ATOM MODEL

2. 73. YTTRIUM

Y

70-CZ-01 CZACHOR MG/ CO/ Y ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ BORN-VON KARMAN MODEL ..AXIAL
 70-CZ-02 CZACHOR, RAJCA MG/ CO/ Y ..CALCULATION/ HEXAGONAL METAL/ FREQUENCY SPECTRA
 70-LA-02 LAHTEENKORVA MG/ Y/ HO ..DISPERSION RELATION/ HARMONIC APPROXIMATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..EL
 70-SH-06 SHARAN, BAJPAI Y/ TI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE
 70-SI-07 SINHA, BRUN+ Y ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED AXIALLY SYMMETRIC MODEL FITT
 70-SI-08 SINHA, BRUN+ Y ..EXPERIMENT/ LATTICE DYNAMICS/ AS-MODEL FITTING/ FREQUENCY SPECTRA/ SPECIFIC HEAT
 72-BA-01 BAJPAI MG/ ZR/ Y/ TI/ TL/ HF ..THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE
 72-KU-04 KUSHWAHA, KUMAR TI/ HF/ Y ..THEORY/ PHONON DISPERSION/ H.C.P. TRANSITION METAL
 72-ME-05 MENON, RAO HO/ Y ..THEORY/ PHONON DISPERSION/ HEXAGONAL METAL
 72-SH-02 SMITH, WAKABAYASHI+ NB.C/ ZR.C/ TC/ ZR/ Y ..EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION
 73-UP-01 UPADHYAYA, VERMA Y/ TB ..THEORY/ PHONON DISPERSION/ SHARMA-JOSHI MODEL
 73-VE-01 VERMA, UPADHYAYA Y ..THEORY/ LATTICE DYNAMICS/ SOLID ..ELASTIC CONSTANT/ ELECTRON-ION INTERACTION/ PHONON
 74-SI-04 SINHA, UPADHYAYA YTTRIUM ..DISPERSION-CURVES/ CALCULATION
 75-SI-07 SINGH, PRAKASH SC/ Y ..CALCULATION/ PHONON DISPERSION/ HCP METAL
 75-SI-09 SINHA, UPADHYAYA SC/ Y/ ZR ..THEORY/ PHONON DISPERSION/ KREB MODEL

75-UP-01 UPADHYAYA, SINHA BE/ MG/ Y/ HO ..THEORY/ EXPERIMENT/ DISPERSION RELATION ..BHATIA MODEL

2, 74 ZINC

63-BA-03 BARGNOVI, CAGLIOTI+ ZN ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 63-MA-02 MALISZEWSKI, SOSNOWSKI+ ZN/ CU/ MG ..EXPERIMENT
 64-YO-02 YOUNG, KOPPEL BE/ MG/ ZN ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..ROOT SAMPLING METHOD
 65-DE-03 DE-WAMES, WOLFRAM+ BE/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION BELATION
 65-HO-02 HOLAS ZN ..LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION
 65-MA-02 MALISZEWSKI, ROSULAWSKI+ ZN ..EXPERIMENT/ SOLID/ DISPERSION RELATION
 66-EG-01 EGELSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
 66-GU-02 GUPTA, DAYAL ZN ..THEORY/ PHONON DISPERSION/ SIXTH-NEIGHBOUR MODEL
 66-GU-04 GUPTA, DAYAL ZN ..THEORY/ PHONON DISPERSION/ A TENSOR FORCE MODEL INCLUDING UP TO SIXTH-NEIGHBOUR INTERL
 67-CA-01 CAGLIOTI, CORCHIA+ BE/ MG/ ZN ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
 68-BR-01 BROVMAN, KAGAN+ ZINC ..EXPERIMENT/ LATTICE DYNAMICS
 68-CA-01 CAGLIOTI, RIZZI+ ZN ..EXPERIMENT/ LATTICE DYNAMICS/ ANHARMONIC CONTRIBUTION
 68-CZ-01 CZACHOR MG/ ZN/ BE ..THEORY/ PHONON DISPERSION
 68-DA-04 DASANNACHARYA, NAVARRO+ ZN ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
 68-IV-02 IYENGAR, VENKATARAMAN+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..KOHN EFFECT
 68-NO-01 NORTH, ENDERBY+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ..LIQUID METAL/ 340DC-1100D
 69-CA-01 CAGLIOTI, CORCHIA+ ZINC ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION/ PAIR POTENTIAL
 69-GI-02 GILAT, RIZZI+ BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..METAL/ MODEL POTENTIAL CALCULATION
 69-MC-01 McDONALD, ELCOMBE+ ZINC ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ CONST.=0 METHOD
 69-ME-02 METZBOWER BE/ MG/ ZN ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..NONCENTRAL-FORCE/ FIVE FORC
 69-MI-01 MILLINGTON, SQUIRES ZN ..DISPERSION RELATION
 70-CA-01 CAGLIOTI, RIZZI+ ZN ..EXPERIMENT/ LATTICE VIBRATION ..TEMPERATURE DEPENDENCE/ 80-670DK
 70-CA-02 CAGLIOTI, RIZZI ZN ..EXPERIMENT/ TEMPERATURE DEPENDENCE OF PHONON
 70-PR-01 PRAKASH, JOSHI BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..SINGLE-ORTHOGONALIZED-PLANE-WA
 71-AL-01 ALMÖVIST, STEDMAN ZN ..EXPERIMENT/ PHONON DISPERSION/ 80 K
 71-BE-03 BEZDEK, FINEGOLD ZN/ BE ..THEORY/ LATTICE DYNAMICS
 71-KU-03 KUSHWAHA, RAJPUT ZN ..THEORY/ PHONON DISPERSION/ HEXAGONAL METAL
 71-SR-01 SRINIVASAN, RAO MG/ ZN/ BE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ ANHARMONICS
 71-TR-05 TROTT, HEALD BE/ MG/ ZN ..THEORY/ PHONON DISPERSION AND SPECTRA/ HEXAGONAL LATTICE
 72-BA-03 BAJPAI ZN ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL
 72-FR-01 FRANCHETTI AR/ ZN ..THEORY/ RADIAL DENSITY FUNCTION
 72-RA-04 RAJPUT, KUSHWAHA ZN ..THEORY/ PHONON DISPERSION
 73-BO-04 BOSE, TRIPATHI+ BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ SPECIFIC HEAT/ CENTRAL AND NON
 73-KU-03 KUSHWAHA ZN ..THEORY/ PHONON DISPERSION/ AXIALLY SYMMETRIC MODEL/ ION-ELECTRON INTERACTION
 74-CH-03 CHESSER, AXE ZN ..THEORY/ EXPERIMENT/ BORN-VON KARMAN MODEL/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/
 74-FU-03 FUNKE, KALUS+ ZN ..THEORY/ BORN-VON KARMAN MODEL/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ EXPERIMENT/
 75-MA-05 MAURYA, SRIVASTAVA BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ HCP METAL/ TOYA THEORY

2, 75 ZIRCONIUM

70-BE-06 BEZDEK, SCHMUNK+ ZR ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON DENSITY
 70-SH-05 SHARAN, BAJPAI ZR/ HF ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE
 72-BA-01 BAJPAI MG/ ZR/ Y/ TI/ TL/ HF ..THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE
 72-SM-02 SMITH, WAKABAYASHI+ NB.C/ ZR.C/ TC/ ZR/ Y ..EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION
 75-SI-09 SINHA, UPADHYAYA SC/ Y/ ZR ..THEORY/ PHONON DISPERSION/ KREB MODEL

3 ALLOYS

- 3, 1 ALUMINIUM-THORIUM HYDRIDE AL-TH-H
 61-BE-02 BERGSM. GOEDKOOP PD-H/ AL-TH-H/ CA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION
- 3, 2 BARIUM HYDRIDE BA-H
 70-MA-02 MAELAND YB-H/ CA-H/ SR-H/ BA-H ..EXPERIMENT/ FREQUENCY SPECTRUM
- 3, 3 BARIUM-LITHIUM HYDRIDE BA-LI-H
 69-MA-01 MAELAND BA-LI-H/ SR-LI-H ..EXPERIMENT/ SPECTRAL DENSITY ..PEROVSKITE STRUCTURE/ BA-LI-H3/ SR-LI-H3
- 3, 4 BISMUTH-GALLIUM BI-GA
 68-WI-02 WIGNALL, EGELSTAFF BI-GA/ BI-ZN ..CRITICAL PHENOMENA/ BINARY LIQUID METAL
 70-EG-02 EGELSTAFF, WIGNALL BI-GA ..CRITICAL PHENOMENA/ BINARY LIQUID METAL
 70-EG-03 EGELSTAFF, WIGNALL BI-GA ..EXPERIMENT/ CRITICAL SCATTERING
- 3, 5 BISMUTH-LEAD BI-PB
 68-NG-01 NG, BROCKHOUSE PB-TL/ BI-TL/ BI-PB/ BI-PB-TL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..100DK/
 69-SC-03 SCHUMACHER BI-PB ..EXPERIMENT
- 3, 6 BISMUTH-LEAD-THALLIUM BI-PB-TL
 67-NG-01 NG, BROCKHOUSE BI-PB-TL ..EXPERIMENT/ PHONON/ ALLOYS
 67-NG-02 NG, BROCKHOUSE BI-PB-TL/ ..PHONON DISPERSION/ ALLOY SYSTEM
 68-NG-01 NG, BROCKHOUSE PB-TL/ BI-TL/ BI-PB/ BI-PB-TL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..100DK/
- 3, 7 BISMUTH-THALLIUM BI-TL
 68-NG-01 NG, BROCKHOUSE PB-TL/ BI-TL/ BI-PB/ BI-PB-TL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..100DK/
- 3, 8 BISMUTH-ZINC BI-ZN
 67-EG-03 EGELSTAFF, WIGNALL BI-ZN ..EXPERIMENT/ LIQUID ..QUASI-ELASTIC SCATTERING/ CONCENTRATION FLUCTUATION
 68-WI-02 WIGNALL, EGELSTAFF BI-GA/ BI-ZN ..CRITICAL PHENOMENA/ BINARY LIQUID METAL
- 3, 9 CALCIUM HYDRIDE CA-H

- 61-BE-02 BERGSM, GOEDKOOP PD-H/ AL-TH-H/ CA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION
 70-MA-02 MAELAND YB-H/ CA-H/ SR-H/ BA-H ..EXPERIMENT/ FREQUENCY SPECTRUM
3. 10 CERIUM HYDRIDE CE-H
- 67-KA-02 KARIMOV, BROVMAN+ TH-H/ U-H/ CE-H ..LATTICE DYNAMICS/ THEORY
 67-KA-03 KARIMOV, ZEMLYANOV+ CE-H/ TH-H/ U-H ..EXPERIMENT/ PHONON SPECTRA
 68-KA-03 KARIMOV, BROVMAN+ CE-H/ TH-H/ U-H ..LATTICE DYNAMICS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ..TOF/ 20DC
 74-VO-01 VORDERWISCH, HAUTECLER CERIUM HYDRIDE ..CE-H1.98
 74-VO-02 VORDERWISCH, HAUTECLER CE-H ..EXPERIMENT/ PHONON SPECTRA
3. 11 CESIUM HYDRIDE CS-H
- 74-VO-03 VORDERWISCH, HAUTECLER+ CESIUM HYDRIDE ..DENSITY-OF-STATES/ SPECIFIC-HEAT
3. 12 CHROMIUM-IRON CR-FE
- 73-MI-02 MIKKE, JANKOWSKA CR-FE ..EXPERIMENT/ PHONON DISPERSION/ ALLOY
3. 13 CHROMIUM-TUNGSTEN CR-W
- 65-MO-02 MOELLER, MACKINTOSH CR-W ..DESPERSION RELATION/ EXPERIMENT/ LATTICE DYNAMICS ..DISORDERED ALLOY
 70-CU-01 CUNNINGHAM, MUHLESTEIN+ CR-W ..EXPERIMENT/ IN-BAND PHONON/ MASS EFFECT
 72-CO-01 COHEN, GILAT CR-W ..THEORY/ PHONON/ ALLOY/ IMPURITY EFFECT/ FORCE-CONSTANT CHANGE
 72-KE-02 KESHARWANI, AGRAWAL CR-W ..THEORY/ DILUTE ALLOY/ PHONON DISPERSION AND WIDTHS/ MASS AND FORCE CONSTANT CHA
 72-KE-03 KESHARWANI, AGRAWAL CR-W ..EXPERIMENT/ PHONON/ ALLOY/ IMPURITY EFFECT
3. 14 COBALT-NICKEL CO-NI
- 74-GA-01 GAMBETTI, MENZINGER+ CO-NI ..EXPERIMENT/ PHONON DISPERSION/ ALLOY/ FCC
 75-ME-01 MENZINGER, SACCHETTI+ CO-NI ..DISPERSION RELATION/ CO-NI,ALLOY/ TRIPLE-AXIS SPECTROSCOPY/ EXPERIMENT
3. 15 COPPER-ALUMINIUM CU-AL
- 68-NI-01 NICKLOW, VIJAYARAGHAVAN+ CU-AL ..EXPERIMENT/ LATTICE VIBRATION ..LOCAL MODE
 68-NI-02 NICKLOW, VIJAYARAGHAVAN+ CU-AL ..PHONON DISPERSION/ LOCALIZED MODE
 74-KA-04 KAPLAN, MOSTOLLER CU-AL/ N.H4.CL-K.CL ..CALCULATIONS/ COHERENT-POTENTIAL APPROXIMATION/ PHONON DENSITY OF
3. 16 COPPER-ANTIMONY CU-SB
- 73-KN-01 KNOLL, STEEB CU-SB ..EXPERIMENT/ RADIAL DISTRIBUTION FUNCTION/ 21 ALLOYS
 73-KN-02 KNOLL, STEEB CU-SB ..PARTIAL INTERFERENCE FUNCTION/ PAIR CORRELATION FUNCTION

- 3. 17 COPPER-BERYLLIUM
 CU-BE
 67-NA-02 NATKANIEC, PARLINSKI+ MG-LI/ CU-BE ..EXPERIMENT/ LOCAL VIBRATION/ NEUTRON SPECTROSCOPY
 68-NA-03 NATKANIEC, PARLINSKI+ CU-BE/ CU-MG/ PB-NA/ PB-MG ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL VIBRATION

- 3. 18 COPPER-COBALT
 CU-CO
 71-ER-01 ERNST, SCHELTEN+ CU-CO/ MAGNETIC-SCATTERING/ SCATTERING-BY-DEFECTS ..EXPERIMENT/ SMALL ANGLE SCATTERING/ P

- 3. 19 COPPER-GOLD
 CU-AU
 65-SV-01 SVENSSON, BROCKHOUSE+ CU-AU ..EXPERIMENT/ DISPERSION RELATION ..3-AXIS-SPECTROMETER/ DISORDERED ALLOYS
 67-SV-01 SVENSSON, BROCKHOUSE CU-AU ..LATTICE DYNAMICS/ EXPERIMENT ..CONSTANT- θ METHODS/ ROOM TEMP.
 71-BR-05 BRUNO, TAYLOR CU-AU ..THEORY/ GOLD-IMPURITY EFFECT/ EFFECT OF VOLUME CHANGE ON ALLOYING
 71-SV-01 SVENSSON, KAMITAKAHARA CU-AU ..EXPERIMENT/ RESONANT MODE/ SHIFT AND WIDTH OF PHONON
 73-KE-04 KESHARWANI, AGRAWAL CU-AU ..THEORY/ PHONON DISPERSION/ DILUTE ALLOY/ PHONON WIDTH/ FORCE CONSTANT CHANGE
 74-CO-02 COHEN CU-AU ..THEORY/ FREQUENCY DISTRIBUTION ..COHERENT NEUTRON SCATTERING/ PHONON SELF-ENERGY AND SH
 74-HA-02 HALLMAN CU-AU ..EXPERIMENT/ SOLID/ DISPERSION RELATION/ LATTICE DYNAMICS/ BORN-VON KARMAN MODEL ..ALLOY
 75-OH-01 OHASHI, OHASHI+ THEORY-OF-SOLIDS/ CU-AU ..DILUTE ALLOY/ PHONON SHIFT AND WIDTH

- 3. 20 COPPER-MAGNESIUM
 CU-MG
 68-NA-03 NATKANIEC, PARLINSKI+ CU-BE/ CU-MG/ PB-NA/ PB-MG ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL VIBRATION

- 3. 21 COPPER-NICKEL
 CU-NI
 68-SA-01 SAKAMOTO, HAMAGUCHI CU-NI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..ALLOYS
 69-MO-04 MOZER, PRICE+ CU-NI ..LIQUID/ SOLID/ EXPERIMENT/ ..NEAR THE MELT

- 3. 22 COPPER-ZINC
 CU-ZN
 64-DO-01 DOLLING, GILAT CU-ZN ..EXPERIMENT/ DISPERSION RELATION
 65-DO-02 DOLLING, GILAT CU-ZN ..EXPERIMENT/ DISPERSION RELATION ..296DK/ PHASE TRANSITION
 65-GI-02 GILAT, DOLLING CU-ZN ..EXPERIMENT/ DISPERSION RELATION/ LATTICE VIBRATION ..296DK/ ALLOYS
 67-AL-04 ALS-NIELSEN, DIETRICH CU-ZN ..CRITICAL SCATTERING/ ALLOY
 69-HA-01 HALLMAN, BROCKHOUSE CU-ZN ..NEUTRON DIFFRACTION/SHORT RANGE ORDER PARAMETER
 70-GI-01 GILAT NI-FE/ CU-ZN ..DISPERSION RELATION/ CONSTANT- θ METHOD/ FREQUENCY DISTRIBUTION ..FCC AL
 74-RA-09 RATHMANN, ALS-NIELSEN CU-ZN ..THEORY/ FLAT PHONON/ ORDER DISORDER TRANSITION
 CU-ZN ..LONG-RANGE ORDER/ NEUTRON DIFFRACTION

- 3. 23 ERBIUM-YTTRIUM-ALUMINIUM
 ER-Y-AL
 74-HE-01 HEER, FURRER+ ER-Y-AL/ MAGNETIC-SCATTERING ..INELASTIC NEUTRON SCATTERING/ SUSCEPTIBILITY

- 3. 24 GERMANIUM-SILICON
 GE-SI

- 71-WA-02 WAKABAYASHI, NICKLOW+ GE-SI ..EXPERIMENT/ LOCAL MODE/ IMPURITY EFFECT
 71-WA-03 WAKABAYASHI, NICKLOW+ GE-SI ..EXPERIMENT/ IMPURITY EFFECT/ LOCAL MODE/ MASS DEFECT
 73-SR-01 SRIVASTAVA, JOSHI GE-SI ..SPECTRAL DENSITY FUNCTION/ RAMAN SPECTRA/ THEORY
3. 25 GOLD-COPPER-ZINC AU-CU-ZN
 75-MO-03 MORI, YAMADA+ AU-CU-ZN/ PHASE-TRANSITION ..EXPERIMENT/ SOFT MODE/ AU.CU.ZN2
3. 26 HOLMIUM-RHODIUM HO-RH
 73-CH-01 CHAMARD-BOIS, ROSSAT-MIGNOD MAGNETIC-SCATTERING/ HO-RH ..EXPERIMENT/ T-O-F/ CRYSTAL-FIELD-LEVEL
3. 27 INDIUM-THALLIUM IN-TL
 73-GU-01 GUNTON, SAUNDERS IN/ IN-TL ..THEORY/ PHONON DISPERSION/ MARTENSITIC PHASE CHANGE
3. 28 IRON-ALUMINIUM FE-AL
 67-BO-02 BORGONVI, LOGIUDICE+ FE-AL ..PHONON DISPERSION/ FE3.AL
 68-VA-02 VAN-DIJK, BERGSMAN FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
 70-VA-02 VAN-DIJK FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES ..BORN VON-KARMAN FIT/ 3RD NEIGHBOURS/
 70-VA-03 VAN-DIJK FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ PHONON DISPERSION
3. 29 IRON-MANGANESE FE-MN
 73-IS-01 ISHIKAWA, ENDOH+ FE-MN/ MAGNETIC-SCATTERING ..EXPERIMENT/ FE0.5-MNO.5/ CRITICAL MAGNETIC SCATTERING
3. 30 IRON-NICKEL-CHROMIUM FE-NI-CR
 75-IS-01 ISHIKAWA, KOHGI+ FE-NI-CR/ MAGNETIC-SCATTERING ..EXPERIMENT/ CANTED SPIN STRUCTURE
3. 31 LANTHANUM HYDRIDE LA-H
 71-MA-01 MAELAND, HOLMES LANTHANUM HYDRIDE ..EXPERIMENT/ FREQUENCY SPECTRA
 71-MA-02 MAELAND, HOLMES LA-H ..INELASTIC SCATTERING SPECTRA
3. 32 LEAD-MAGNESIUM PB-MG
 65-CH-03 CHERNOPLEKOV, ZEMLYANOV PB-MG ..EXPERIMENT/ IN-BAND MODE/ FREQUENCY SPECTRUM
 68-NA-03 NATKANIEC, PARLINSKI+ CU-BE/ CU-MG/ PB-NA/ PB-MG ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL VIBRATION
3. 33 LEAD-SODIUM PB-NA

- 68-NA-03 NATKANIEC, PARLINSKI+ CU-BE/ CU-MG/ PB-NA/ PB-MG ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL VIBRATION
3. 34 LEAD-THALLIUM PB-TL
- 68-NG-01 NG, BROCKHOUSE PB-TL/ BI-TL/ BI-PB/ BI-PB-TL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..100DK/
 69-RO-01 ROWELL, MCMILLAN+ PB/ PB-TL ..EXPERIMENT/ SPECTRAL DENSITY ..TUNNELING EXPERIMENT
 70-RO-03 ROY, BROCKHOUSE PB/ PB-TL ..EXPERIMENT/ FREQUENCY SPECTRA/ POLYCRYSTALLINE SAMPLES/ TRIPLE AXIS SPECTROMET
3. 35 LITHIUM-ALUMINIUM HYDRIDE LI-AL-H
- 73-TE-02 TENME, WADDINGTON LI-AL-H/ NA-AL-H ..EXPERIMENT/ PHONON SPECTRA/ LI-AL-H4/ NA-AL-H4
3. 36 LITHIUM-LEAD LI-PB
- 73-RU-01 RUPPERSBERG LI-PB ..EXPERIMENT/ LIQUID/ CORRELATION FUNCTION
3. 37 MAGNESIUM HYDRIDE MG-H
- 58-MC-01 MCREYNOLS, NELKIN+ H2.O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE ..EXPERIMENT/ THEORY/ LIQUID/ SOLID
3. 38 MANGANESE-COBALT MN-CO
- 58-ST-01 STEWART, BROCKHOUSE V/ MN-CO ..EXPERIMENT/ FREQUENCY DISTRIBUTION
3. 39 MAGNESIUM-LEAD MG-PB
- 65-CH-04 CHERNOPEKOV, ZEMLYANOV MG-PB ..EXPERIMENT/ LOCAL MODE/ PHONON SPECTRA
3. 40 MAGNESIUM-LITHIUM MG-LI
- 67-NA-02 NATKANIEC, PARLINSKI+ MG-LI/ CU-BE ..EXPERIMENT/ LOCAL VIBRATION/ NEUTRON SPECTROSCOPY
3. 41 MAGNESIUM-ZINC MG-ZN
- 74-DO-01 DORNER, FELDMANN+ MG-ZN ..THEORY/ DISPERSION RELATION/ CONSTANT-0 METHOD/ MG-ZN2
3. 42 MANGANESE-PLATINUM MN-PT
- 72-AN-02 ANTONINI, MINKIEWICZ MN-PT ..EXPERIMENT/ DISPERSION RELATION/ MN-PT3 ..SPIN WAVE AND PHONON
3. 43 NICKEL-BERYLLIUM NI-BE

- 66-ZE-01 ZEMLYANOV, SOMENKOV+ NI-BE ..EXPERIMENT/ LOCAL MODE/ PHONON SPECTRA
3. 44 NICKEL-IRON NI-FE
 69-HA-01 HALLMAN, BROCKHOUSE NI-FE/ CU-ZN ..DISPERSION RELATION/ CONSTANT-0 METHOD/ FREQUENCY DISTRIBUTION ..FCC AL
 75-HE-03 HENNION, HENNION+ NI-FE/ MAGNETIC-SCATTERING ..STIFFNESS CONSTANT/ SPIN WAVE
3. 45 NICKEL-PALLADIUM NI-PD
 62-MO-01 MOZER, OTNES+ NI-PD ..EXPERIMENT/ LATTICE VIBRATION ..DEFECT MODE/ DISORDERED ALLOYS
 63-MO-01 MOZER, OTNES NI/ PD/ NI-PD ..EXPERIMENT/ LATTICE DYNAMICS ..IMPURITY MODE
 72-KA-04 KAMITAKAHARA, BROCKHOUSE NI-PD ..EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MASS EFFECT
 74-KA-01 KAMITAKAHARA, BROCKHOUSE NI-PD ..EXPERIMENT/ PHONON DISPERSION/ WIDTH/ DISORDERED ALLOY/ FCC/ NI.55-PD.45
3. 46 NICKEL-PLATINUM NI-PT
 73-KU-01 KUNITOMI, TSUNODA+ NI-PT ..EXPERIMENT/ PHONON DISPERSION/ EFFECT OF MASS-DEFECT
3. 47 NIOBIUM HYDRIDE NB-H
 65-KL-01 KLEY, PERETTI+ V-H/ NB-H/ PD-H ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ..50DC FOR V-H/ 33DC FOR NB-H
 67-BI-01 BISCHOFF, BRYANT+ POLYETHYLENE/ H2.O/ ZR-H/ NB-H/ U.O2 ..EXPERIMENT
 67-PA-04 PAN, YEATER+ ZR-H/ NB-H/ TI-H/ U.C ..EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 68-PU-01 PUROHIT, PAN+ U,C/ U.O2/ ZR-H/ TI-H/ NB-H/ TH-H ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT
 68-VE-02 VERDAN, RUBIN+ V-H/ NB-H ..EXPERIMENT/ LATTICE DYNAMICS ..200DC
 69-CH-02 CHERNOPLEKOV, ZEMLYANOV+ V-H/ NB-H ..EXPERIMENT/ PHONON SPECTRA
 70-GI-02 GISSLER, ROTHER NB-H ..THEORY/ DIFFUSION OF HYDROGEN IN METAL HYDRIDE/ QUASIELASTIC
 70-GO-03 GOSSLER, ALEFOLD+ NB-H ..IMPURITY
 70-RU-01 RUBIN, CLAESSEN TB-H/ NB-H ..SOLID/ QUASI-ELASTIC PEAK
 71-KI-03 KISTNER, RUBIN+ NB-H ..HYDROGEN DIFFUSION
 72-AL-01 ALEFELD, BOHN+ NB-H ..EXPERIMENT/ HYDROGEN DIFFUSION/ QUASI-ELASTIC
 72-BI-01 BIRCHALL, ROSS NB-H ..EXPERIMENT/ LOCAL MODE/ SINGLE CRYSTAL/ 130C-400C
 72-BI-02 BIRCHALL, ROSS NB-H ..HYDROGEN MOTION
 72-SI-07 STUMP, GISSLER+ NB-H ..EXPERIMENT/ HYDROGEN DIFFUSION/ SINGLE CRYSTAL
 72-SI-08 STUMP, GISSLER+ NB-H ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ DIFFUSION BROADING/ 235C.256C/ NB-HU.07
 73-GI-02 GISSLER, JAY+ NB-H ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ INTEGRATED INTENSITY/ ANGULAR DEPENDENCE
3. 48 NIOBIUM-MOLYBDENUM NB-MO
 65-WO-02 WOODS, POWELL NB-MO ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..DISORDERED ALLOYS
 68-PO-01 POWELL, MARTEL+ NB-MO ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..ROOM TEMP./ ALLOY/ KOHN EFFECT
3. 49 PALLADIUM HYDRIDE PD-H
 61-BE-02 BERGSMAN, GOEDKOOP PD-H/ AL-TI-H/ CA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION

- 65-KL-01 KLEY, PERETTI+ V-H/ NB-H/ PD-H ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ..50DC FOR V-H/ 33DC FOR NB-H.
 66-SK-01 SKOELD, NELIN PD-H ..EXPERIMENT/ DIFFUSION BROADNING
 67-SK-03 SKOELD, NELIN PD-H ..HYDROGEN DIFFUSION
 70-BE-01 BEG, ROSS PD-H ..EXPERIMENT/ QUASIELASTIC SCATTERING ..DIFFUSIVE MOTION
 71-RO-05 ROWE, SKOELD+ PD-H ..EXPERIMENT/ QUASIELASTIC SCATTERING ..DIFFUSIVE MOTION
 72-RO-05 ROWE, RUSH+ PD-H ..QUASIELASTIC SCATTERING/ HYDROGEN DIFFUSION
 73-CH-06 CHOWDHURY, ROSS PD-H/ PD-AG-H ..EXPERIMENT/ HYDROGEN VIBRATION IN METAL
 74-CA-01 CARLILE, ROSS PD-H ..EXPERIMENT/ SOLID/ SCATTERING LAW ..CHUDLEY-ELLIOT MODEL/ JUMP-DIFFUSION MODEL
 74-NE-03 NELIN, SKOELD PD-H ..EXPERIMENT/ SOLID/ QUASI-ELASTIC NEUTRON SCATTERING ..FULL WIDTH AT HALF MAXIMUM
 74-RO-05 ROWE, RUSH+ PD-H ..EXPERIMENT/ PHONON DISPERSION/ 78,150,220,295K/ PD.DO.63
 75-NE-01 NELIN, SKOELD PD-H ..EXPERIMENT/ QUASI-ELASTIC PEAK/ MULTIPLE SCATTERING/ CRYSTAL SPECTROMETER ..PHASE TRA
3. 50 PALLADIUM-IRON PD-FE
- 70-MA-03 MALISZEWSKI, SOSNOWSKI+ PD-FE ..EXPERIMENT/ PHONON DISPERSION CURVE
 71-MA-05 MALISZEWSKI, SOSNOWSKI+ PD-FE ..EXPERIMENT/ PHONON DISPERSION/ FORCE CONSTANT ANALYSIS
 72-ST-06 STIRLING, COWLEY+ PD-FE ..LATTICE DYNAMICS/ PHONON DISPERSION/ 80 DK
 75-MA-01 MALISZEWSKI, SOSNOWSKI+ PD-FE ..EXPERIMENT/ PHONON DISPERSION
3. 51 PALLADIUM-MANGANESE PD-MN
- 75-DE-01 DE-PATER, VAN-DIJK+ PD-MN/ MAGNETIC-SCATTERING ..EXPERIMENT/ DIFFUSE SCATTERING/ GIANT MAGNETIC MOMENT
3. 52 PALLADIUM-MANGANESE-TIN PD-MN-SN
- 74-IS-01 ISHIKAWA, NODA PD-MN-SN/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
3. 53 PALLADIUM-SILVER HYDRIDE PD-AG-H
- 72-CH-04 CHOWDHURY, ROSS PD-AG-H ..EXPERIMENT/ QUASIELASTIC/ DIFFUSION/ 100C-360C
 73-CH-06 CHOWDHURY, ROSS PD-H/ PD-AG-H ..EXPERIMENT/ HYDROGEN VIBRATION IN METAL
3. 54 SODIUM-ALUMINIUM HYDRIDE NA-AL-H
- 73-TE-02 TENME, WADDINGTON LI-AL-H/ NA-AL-H ..EXPERIMENT/ PHONON SPECTRA/ LI-AL-H4/ NA-AL-H4
3. 55 SODIUM-POTASSIUM NA-K
- 68-EN-01 ENDERBY, NORTH THEORY-OF-FLUIDS/ NA-K ..STRUCTURE FACTOR/ ALLOY LIQUID/ PERCUS-YEVICK
3. 56 STRONTIUM HYDRIDE SR-H
- 70-MA-02 MAELAND YB-H/ CA-H/ SR-H/ BA-H ..EXPERIMENT/ FREQUENCY SPECTRUM

3. 57 STRONTIUM-LITHIUM HYDRIDE SR-LI-H
 69-MA-01 MAELAND BA-LI-H/ SR-LI-H ..EXPERIMENT/ SPECTRAL DENSITY ..PEROVSKITE STRUCTURE/ BA-LI-H3/ SR-LI-H3
3. 58 TANTALUM HYDRIDE TA-H
 72-DE-02 DE-GRAAF, RUSH+ V-H/ TA-H ..EXPERIMENT/ QUASIELASTIC/ HYDROGEN DIFFUSION IN METAL
 74-RO-03 ROWE, RUSH+ TA-H ..EXPERIMENT/ QUASI-ELASTIC PEAK/ TOF
3. 59 TANTALUM-NIOBIUM TA-NB
 68-AL-02 ALS-NIELSEN TA-NB ..EXPERIMENT/ LATTICE DYNAMICS ..CRYSTAL SPECTROMETER/ LOCALIZED PHONON
3. 60 TERBIUM HYDRIDE TB-H
 70-RU-01 RUBIN, CLAESSEN TB-H/ NB-H ..SOLID/ QUASI-ELASTIC PEAK
3. 61 THORIUM HYDRIDE TH-H
 67-KA-02 KARIMOV, BROVMAN+ TH-H/ U-H/ CE-H ..LATTICE DYNAMICS/ THEORY
 67-KA-03 KARIMOV, ZEMLYANOV+ CE-H/ TH-H/ U-H ..EXPERIMENT/ PHONON SPECTRA
 68-KA-03 KARIMOV, BROVMAN+ CE-H/ TH-H/ U-H ..LATTICE DYNAMICS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ..TOF/ 20DC
3. 62 TITANIUM HYDRIDE TI-H
 63-SA-02 SAUNDERSON, COCKING TI-H ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION
 66-BR-02 BROECKER N.H4,CL/ N.H4,BR/ N.H4,I/ ZR-H/ TI-H ..SIGMA(E)/ EXPERIMENT/ CRYSTAL SPECTROMETER
 67-PA-04 PAN, YEATER+ ZR-H/ NB-H/ TI-H/ U.C ..EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 68-PU-01 PUROHIT, PAN+ U.C/ U.O2/ ZR-H/ TI-H/ NB-H/ TH-H ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT
3. 63 TITANIUM-URANIUM TI-U
 67-CH-02 CHERNOPLEKOV, PANOVA+ TI-U ..EXPERIMENT/ LOCAL MODE/ TI0.95-U0.05
3. 64 TITANIUM-ZIRCONIUM TI-ZR
 63-CH-01 CHERNOPLEKOV, ZEMLYANOV+ TI-ZR ..FREQUENCY DISTRIBUTION/ EXPERIMENT ..ALLOY
 65-MO-03 MOZER, OTNES+ NI/ V/ TI/ TI-ZR ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION
3. 65 URANIUM HYDRIDE U-H
 66-RU-03 RUSH, FLOTOW+ Y-H/ U-H ..EXPERIMENT/ HYDROGEN VIBRATION/ OPTICAL BAND SPECTRA
 67-KA-02 KARIMOV, BROVMAN+ TH-H/ U-H/ CE-H ..LATTICE DYNAMICS/ THEORY
 67-KA-03 KARIMOV, ZEMLYANOV+ CE-H/ TH-H/ U-H ..EXPERIMENT/ PHONON SPECTRA

- 68-KA-03 KARIMOV, BROVMAN+ CE-H/ TH-H/ U-H .,LATTICE DYNAMICS/ EXPERIMENT/ FREQUENCY DISTRIBUTION .,TOF/ 20DC
3. 66 VANADIUM-BERYLLIUM V-BE
 66-MO-01 MOZER, OTNES+ V-BE/ V-NI/ V-PT .,EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ ALLOY
3. 67 VANADIUM HYDRIDE V-H
 65-KL-01 KLEY, PERETTI+ V-H/ NB-H/ PD-H .,EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION .,50DC FOR V-H/ 33DC FOR NB-H,
 65-RU-01 RUBIN, PERETTI+ V/ V-H .,EXPERIMENT/ SOLID/ .,ROOM TEMP. FOR V/ 150 DC FOR V-H/ LOCALIZED MODE IN V DUE TO
 68-RU-01 RUSH, FLOTOW V-H .,FREQUENCY DISTRIBUTION/ EXPERIMENT
 68-VE-02 VERDAN, RUBIN+ V-H/ NB-H .,EXPERIMENT/ LATTICE DYNAMICS .,200DC
 69-CH-02 CHERNOPOLEKOV, ZEMLYANOV+ V-H/ NB-H .,EXPERIMENT/ PHONON SPECTRA
 72-DE-01 DE-GRAAF, RUSH+ V-H .,EXPERIMENT/ QUASIELASTIC/ DIFFUSION BROADENING
 72-DE-02 DE-GRAAF, RUSH+ V-H/ TA-H .,EXPERIMENT/ QUASIELASTIC/ HYDROGEN DIFFUSION IN METAL
 72-RO-04 ROWE V-H .,EXPERIMENT/ PHONON SPECTRA/ 300K,425K
3. 68 VANADIUM-NICKEL V-NI
 66-MO-01 MOZER, OTNES+ V-BE/ V-NI/ V-PT .,EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ ALLOY
3. 69 VANADIUM-PLATINUM V-PT
 66-MO-01 MOZER, OTNES+ V-BE/ V-NI/ V-PT .,EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ ALLOY
3. 70 YTTERBIUM HYDRIDE YB-H
 70-MA-02 MAELAND YB-H/ CA-H/ SR-H/ BA-H .,EXPERIMENT/ FREQUENCY SPECTRUM
3. 71 YTTRIUM-HOLMIUM Y-HO
 74-WA-01 WAKABAYASHI, NICKLOW Y-TB/ Y-HO/ MAGNETIC-SCATTERING .,EXPERIMENT/ MAGNON DISPERSION/ ALLOY/ 4.2 DK
3. 72 YTTRIUM HYDRIDE Y-H
 65-WH-01 WHITEMORE POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H .,EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI
 66-RU-03 RUSH, FLOTOW+ Y-H/ U-H .,EXPERIMENT/ HYDROGEN VIBRATION/ OPTICAL BAND SPECTRA
3. 73 YTTRIUM-TERBIUM Y-TB
 74-MO-02 MOSTOLLER, KAPLAN+ Y-TB .,THEORY/ LATTICE DYNAMICS/ SOLID/ FREQUENCY SPECTRUM .,COHERENT POTENTIAL APPROXI
 74-WA-01 WAKABAYASHI, NICKLOW Y-TB/ Y-HO/ MAGNETIC-SCATTERING .,EXPERIMENT/ MAGNON DISPERSION/ ALLOY/ 4.2 DK

- 3, 74 YTTRIUM-ZINC Y-ZN .. EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MODEL ANALYSIS/ FREQUENCY DISTRIBUTION/ DEB
- 72-PR-05 PREVENDER, SINHA+ Y-ZN .. EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MODEL ANALYSIS/ FREQUENCY DISTRIBUTION/ DEB
- 3, 75 ZIRCONIUM HYDRIDE ZR-H
- 57-AN-01 ANDERSON, MCREYNOLDS+ ZR-H .. EXPERIMENT/ SIGMA (E,E-PRIME,THETA)
- 58-MC-01 MCREYNOLDS, NELKIN+ H2,O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE .. EXPERIMENT/ THEORY/ LIQUID/ SOLID
- 61-BR-03 BRUGGER ZR-H/ H2,O/ BENZENE/ PARAFFINE/ ALCOHOL .. SIGMA (E,E-PRIME,THETA)/ EXPERIMENT/ LIQUIDS/ TOF
- 61-WO-01 WOODS, BROCKHOUSE+ GRAPHITE/ H2,O/ D2,O/ ZR-H/ LI,H/ NA,H/ N,H4,CL .. EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE
- 62-LE-01 LEHMAN, WOLFRAM+ CU/ AL/ ZR-H .. THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 64-SP-01 SPRINGER, HOFMYER+ H2,O/ D2,O/ PHENYL/ ZR-H .. EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER .. AVE-MU
- 65-BE-02 BEYSTER, YOUNG+ H2,O/ D2,O/ ZR-H .. EXPERIMENT/ DIFFUSION PARAMETER .. AVE-MU
- 65-GL-03 GLAESER, EHRET+ C6,H6/ H2,O/ ZR-H .. SCATTERING LAW/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID .. 20DC FOR
- 65-HA-04 HARLING, LEONARD-JR ZR-H .. EXPERIMENT/ LATTICE DYNAMICS .. INCOHERENT/ TOF/ 295DK
- 65-KO-02 KORNBICHLER D2,O/ ZR-H .. EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER
- 65-WH-01 WHITEMORE POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H .. EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI
- 65-WH-03 WHITEMORE ZR-H .. EXPERIMENT .. HIGH-ENERGY INCIDENT NEUTRONS
- 66-AN-03 ANTUNEZ, BEYSTER+ BE,O/ H2,O/ D2,O/ ZR-H .. EXPERIMENT/ THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
- 66-BE-06 BEYSTER, NEILL+ H2,O/ D2,O/ ZR-H/ GRAPHITE/ BE,O .. NEUTRON SPECTRUM/ COMPILATION/ LIQUID/ GAS
- 66-BR-02 BROECKER N,H4,CL/ N,H4,BR/ N,H4,I/ ZR-H/ TI-H .. SIGMA(E)/ EXPERIMENT/ CRYSTAL SPECTROMETER
- 66-IS-01 ISHMAEV, MOSTOVOI+ ZR-H .. THEORY/ SOLID/ NEUTRON SPECTRUM
- 66-KO-01 KOPPEL POLYETHYLENE/ ZR-H/ H2,O .. SCATTERING FUNCTION/ SCATTERING CROSS SECTION/ NEUTRON SPECTRUM
- 66-KO-04 KOPPEL H2,O/ POLYETHYLENE/ ZR-H/ H .. CROSS SECTION EVALUATION/ SCATTERING FUNCTION/ THEORY/ LIQUID/ SO
- 67-BE-03 BEYSTER, BORGONOVI+ C,H2/ C6,H6/ ZR-H .. EXPERIMENT
- 67-BI-01 BISCHOFF, BRYANT+ POLYETHYLENE/ H2,O/ ZR-H/ NB-H/ U,O2 .. EXPERIMENT
- 67-CA-04 CARRIVEAU ZR-H .. ANGULAR DISTRIBUTION/ TEMPERATURE EFFECT
- 67-GL-01 GLAESER REVIEW-ARTICLES/ H2,O/ ZR-H/ GRAPHITE/ D2,O/ BE/ BE,O .. INCOHERENT APPROXIMATION/ MULTIPLE SCATT
- 67-PA-04 PAN, YEATER+ ZR-H/ NB-H/ TI-H/ U,C .. EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
- 68-BE-03 BEYSTER, BORGONOVI+ BIPHENYL/ ZR-H/ U,O2 .. LATTICE DYNAMICS/ SCATTERING FUNCTION
- 68-BE-04 BEYSTER, BORGONOVI+ C,H2/ ZR-H/ C6,H6 .. EXPERIMENT/ MOLECULAR DYNAMICS
- 68-GL-01 GLAESER H2,O/ ZR-H/ GRAPHITE/ D2,O/ BE/ BE,O .. COMPILATION/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
- 68-GL-02 GLAESER H2,O/ D2,O/ ZR-H/ GRAPHITE/ BE/ BE,O .. SCATTERING FUNCTION/ DIFFUSION PARAMETER/ COMPILATION
- 68-PU-01 PUROHIT, PAN+ U,C/ U,O2/ ZR-H/ TI-H/ NB-H/ TH-H .. SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT
- 68-SL-01 SLAGGIE ZR-H .. THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION .. ROOT SAMPLING METHOD
- 68-SL-02 SLAGGIE ZR-H .. THEORY/ CROSS SECTION EVALUATION
- 68-TH-01 THORSON ZR-H/ U,O2 .. SCATTERING FUNCTION/ EXPERIMENT/ SOLID .. DIFFERENTIAL SCATTERING CROSS SECTION
- 69-CA-03 CARRIVEAU, BORGONOVI+ ZR-H .. SIGMA (THETA,E)/ SOLID .. 750DK/ ROOMTEMPERATURE
- 69-SL-02 SLAGGIE ZR-H .. THEORY/ ANHARMONICITY/ FREQUENCY DISTRIBUTION .. 300DK/ 800DK
- 71-CO-01 COUCH, HARLING+ ZR-H .. EXPERIMENT/ SOLID/ SIGMA(E,E-PRIME,THETA)
- 71-DA-01 DAY, SINCLAIR ZR-H/ H2,O/ C6,H7,N/ NA,N,H2 .. EXPERIMENT/ TOF SPECTRA/ PULSED NEUTRON SOURCE
- 71-DA-02 DAY, SINCLAIR ZR-H/ H2,O/ SODAMIDE/ ANILINE .. EXPERIMENT/ MOLECULAR DYNAMICS/ LINAC PULSED NEUTRON SOURCE
- 71-SA-01 SAASTAMOINEN, PALMGREN ZR-H .. EXPERIMENT/ SOLID/ SCATTERING CROSS SECTION
- 72-NA-01 NAKAHARA, KADOTANI ZR-H/ COMPUTER-CODES .. THEORY/ SIGMA (E,E-PRIME)/ SIGMA (E)/ SIGMA-TRANSPORT(E)/ SOLID
- 3, 76 ZIRCONIUM-NIOBIUM ZR-NB
- 75-AX-01 AXE, KEATING+ ZR-NB .. EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RELATION .. 1238DK

4 INORGANIC COMPOUNDS

4. 1 AMMONIA
N,H3
- 41-SA-01 SACHS, TELLER
NEUTRON-SCATTERING-IN-FLUIDS/ H2/ C,H4/ N,H3/ H2,O ..SCATTERING THEORY ..MOLECULAR GASES
60-RU-01 RUSH, TAYLOR+
N,H3/ N,H4,I/ N,H4,BR/ N,H4,CL/ N,H4,F ..EXPERIMENT/ MOLECULAR DYNAMICS ..TOTAL CROSS SECTION
63-JA-02 JANIK, JANIK+
C,H4/ N,H3/ H2,S/ H2,O ..SIGMA(E)/ EXPERIMENT/ LIQUID
63-JA-03 JANIK, RZANY+
N,H3 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID
63-WE-01 WEBB
C,H4/ N,H3/ H2 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ GAS ..ROOM TEMPERATURE
64-CZ-01 CZERLUNCZAKIEWICZ, KOWALSKA
N,H3 ..GASE/ MOLECULE/ EXPERIMENT/ SIGMA(E, E-PRIME)
64-VA-01 VAN-DINGENEN, NEVEDEMEVERGNIES
ACETYLENE/ AMMONIA/ METHANE ..TOTAL CROSS SECTION/ EXPERIMENT/ SOLID ..LON
65-ST-07 STRONG, HARKER+
AMMONIA/ HYDROGEN SULFIDE ..EXPERIMENT/ GAS/ CROSS SECTION EVALUATION ..MTR-PHASE-CHOPPER
66-VE-03 VENKATARAMAN, RAO+
AMMONIA/ METHANE ..THEORY/ CALCULATION/ CROSS SECTION/ GAS PHASE
67-OK-01 OKA
N,H3 ..MOLECULE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION
67-WE-01 WEBB
METHANE/ AMMONIA ..GAS/ EXPERIMENT/ NEUTRON SPECTRUM ..20DK
68-AG-01 AGRAWAL, YIP
C,H4/ H,CL/ N,H3 ..GAS/ THEORY/ CORRELATION FUNCTION ..INCOHERENT/ INTERMEDIATE SCATTERING FU
68-JA-02 JANIK
C,H4/ H2,O/ N,H3/ L12,S,O4,H2,O/ H3,O,N,O3/ C,H3,I ..EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR
72-DA-02 DASANNACHARYA, THAPER+
N,H3 ..EXPERIMENT/ MOLECULAR LIQUID/ 218K/ MODEL ANALYSIS/ SIMPLE DIFFUSION/ HINDER
72-GO-03 GOYAL, DASANNACHARYA+
AMMONIA ..EXPERIMENT/ PHONON DENSITY
4. 2 AMMONIUM AZIDE
N,H4,N3
- 66-BO-02 BOUTIN, TREVINO+
N,H4,N3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
4. 3 AMMONIUM BROMIDE
N,H4,BR
- 60-RU-01 RUSH, TAYLOR+
N,H3/ N,H4,I/ N,H4,BR/ N,H4,CL/ N,H4,F ..EXPERIMENT/ MOLECULAR DYNAMICS ..TOTAL CROSS SECTION
62-RU-01 RUSH, TAYLOR+
N,H4,CL/ N,H4,I/ N,H4,F/ N,H4,BR/ BENZENE/ TOLUENE/ MESITYLENE/ XYLENE ..EXPERIMENT/ TOTAL C
63-JA-01 JANIK
C,H4/ N,H4,I/ N,H4,CL/ N,H4,BR/ N,H4,S,O3,F ..SIGMA(E)/ SIGMA(E, E-PRIME, THETA)/ EXPERIMENT/ THE
63-MJ-02 MIKKE, KROH
N,H4,CL/ N,H4,BR/ N,H4,F/ N,H4,N,O3 ..LATTICE DYNAMICS/ EXPERIMENT ..INVERTED FILTER METHOD
63-VE-01 VENKATARAMAN, USHA+
N,H4,CL/ N,H4,BR ..EXPERIMENT
65-BA-01 BAJOREK, MACHEKHINA+
N,H4,CL/ N,H4,BR/ N,H4,I/ N,H4,F/ N,H4,N,O3/ N,H4,C,N,S/ (N,H4)2,S,O4/ (N,H4)2,S2,O8/
65-VE-01 VENKATARAMAN, DENIZ+
V/ N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,SN,CL6/ (N,H4)2,SN,BR6 ..EXPERIMENT/ ELASTIC SCA
66-BR-02 BROECKER
N,H4,CL/ N,H4,BR/ N,H4,I/ ZR-H/ TI-H ..SIGMA(E)/ EXPERIMENT/ CRYSTAL SPECTROMETER
66-VE-04 VENKATARAMAN, DENIZ+
N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,SN,CL6/ (N,H4)2,SN,BR6 ..EXPERIMENT/ ROTATIONAL MOD
68-LE-03 LEUNG, TAYLOR+
N,H4,F/ N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,S,O4/ (N,H4)2,CR2,O7/ N,H4,CL,O4 ..EXPERIMENT/ TO
73-SO-01 SOKOLOFF, LOVELUCK
N,H4,CL/ N,H4,BR/ N,H4,CL ..THEORY/ ORDER-DISORDER TRANSITION/ SIGMA (THETA,E) ..ORIENTATIONAL D
74-IN-01 INOUE, KIYANAGI
N,H4,CL/ N,H4,BR/ N,H4,I ..CALCULATION/ SCATTERING FORM FACTOR/ ONE-DIMENSIONAL ROTOR
74-LI-01 LIVINGSTON
N,H4,BR ..EXPERIMENT/ NEUTRON SPECTRUM/ SCATTERING LAW/ QUASI-ELASTIC PEAK ..TORSIONAL VIBRATIO
74-YA-01 YAMADA, NODA+
N,H4,BR ..EXPERIMENT/ SIGMA(THETA,E)/ DISPERSION RELATION ..STRUCTURAL PHASE TRANSITION/ SPI
4. 4 AMMONIUM BROMOSTANNATE
(N,H4)2,SN,BR6
- 66-VE-04 VENKATARAMAN, DENIZ+
N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,SN,CL6/ (N,H4)2,SN,BR6 ..EXPERIMENT/ ROTATIONAL MOD

4. 5 AMMONIUM CHLORIDE N.H4.CL
- 60-RU-01 RUSH, TAYLOR+ N.H3/ N.H4.I/ N.H4.BR/ N.H4.CL/ N.H4.F ..EXPERIMENT/ MOLECULAR DYNAMICS ..TOTAL CROSS SECTIO
62-RU-01 RUSH, TAYLOR+ N.H4.CL/ N.H4.I/ N.H4.F/ N.H4.BR/ BENZENE/ XYLENE ..EXPERIMENT/ TOTAL C
63-JA-01 JANIK C.H4/ N.H4.I/ N.H4.CL/ N.H4.BR/ N.H4.S.O3.F ..SIGMA(E)/ SIGMA(E-PRIME+THETA)/ EXPERIMENT/ THE
63-MI-02 MIKKE, KROH N.H4.CL/ N.H4.BR/ N.H4.F/ N.H4.N.O3 ..LATTICE DYNAMICS/ EXPERIMENT ..INVERTED FILTER METHOD
63-VE-01 VENKATARAMAN, USHA+ N.H4.CL/ N.H4.BR ..EXPERIMENT
64-VE-01 VENKATARAMAN, DENIZ+ N.H4.CL ..EXPERIMENT ..300, 228 AND 135DK
65-BA-01 BAJOREK, MACHEKHINA+ N.H4.CL/ N.H4.BR/ N.H4.I/ N.H4.F/ N.H4.N.O3/ N.H4.C.N.S/ (N.H4)2.S.O4/ (N.H4)2.S2.O8/
65-VE-01 VENKATARAMAN, DENIZ+ V/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR6 ..EXPERIMENT/ ELASTIC SCA
66-BR-02 BROECKER N.H4.CL/ N.H4.BR/ N.H4.I/ ZR-H/ TI-H ..SIGMA(E)/ EXPERIMENT/ CRYSTAL SPECTROMETER
66-VE-04 VENKATARAMAN, DENIZ+ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR6 ..EXPERIMENT/ ROTATIONAL MOD
68-CH-01 CHEN, DVORAK HEXAMETHYLENETETRAHINE/ ADAMANTANE/ N.H4.CL ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS/ D
68-LE-03 LEUNG, TAYLOR+ N.H4.F/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.S.O4/ (N.H4)2.CR2.O7/ N.H4.CL.O4 ..EXPERIMENT/ TO
69-PA-02 PARLINSKI N.H4.CL ..THEORY
69-SN-01 SMITH, TRAYLOR+ N.H4.CL ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS ..TRIPLE-AXIS-SPECTROMETER
69-TE-01 TEH, BROCKHOUSE+ N.H4.CL ..EXPERIMENT/ CONST.-W METHOD/ LATTICE DYNAMICS/ DISPERSION RELATION ..DEUTERATED
71-CO-03 COWLEY AMMONIUM CHLORIDE ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS
71-JE-01 JEX N.H4.CL ..THEORY/ DISPERSION RELATION
71-JE-02 JEX N.H4.CL ..THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION FUNCTION
71-TE-01 TEH, BROCKHOUSE AMMONIUM CHLORIDE ..EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RELATION
72-KI-01 KIM, RAFIZADEH+ N.H4.CL ..THEORY/ PHONON DISPERSION/ RIGID ION, SHELL MODEL/ FREQUENCY DISTRIBUTION
72-TH-01 THE N.H4.CL ..THEORY/ PHONON DISPERSION/ RIGID ION, SHELL MODEL/ FREQUENCY DISTRIBUTION
73-MI-01 MICHEL N.H4.CL ..THEORY/ INCOHERENT APPROXIMATION ..XH4-TETRAHEDRON/ REORIENTATION AROUND 2 AND 3 FOLD
73-SK-01 SKOELD, DAHLBORG N.H4.CL ..EXPERIMENT/ NEUTRON DIFFRACTION/ TOF/ SIGMA (THETA,E) ..STEPWISE REORIENTATION O
73-SO-01 SOKOLOFF, LOVELUCK N.H4.BR/ N.H4.CL ..THEORY/ ORDER-DISORDER TRANSITION/ SIGMA (THETA,E) ..ORIENTATIONAL D
73-TE-01 TEH, BROCKHOUSE N.H4.CL ..LATTICE DYNAMICS/ DISPERSION CURVE
74-IN-01 INOUE, KIYANAGI N.H4.CL/ N.H4.BR/ N.H4.I ..CALCULATION/ SCATTERING FORM FACTOR/ ONE-DIMENSIONAL ROTOR
4. 6 AMMONIUM CHLORIDE-POTASSIUM CHLORIDE N.H4.CL-K.CL
- 74-KA-04 KAPLAN, MOSTOLLER CU-AL/ N.H4.CL-K.CL ..CALCULATIONS/ COHERENT-POTENTIAL APPROXIMATION/ PHONON DENSITY OF
4. 7 AMMONIUM CHLOROSTANNATE (N.H4)2.SN.CL6
- 65-VE-01 VENKATARAMAN, DENIZ+ V/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR6 ..EXPERIMENT/ ELASTIC SCA
66-VE-04 VENKATARAMAN, DENIZ+ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR6 ..EXPERIMENT/ ROTATIONAL MOD
4. 8 AMMONIUM CHROMATE (N.H4)2.CR.O4
- 61-RU-01 RUSH, TAYLOR+ K.H2.P.O4/ (N.H4)2.CR.O4/ (N.H4)2.CR2.O7/ N.H4.C.N.S/ N.H4.CL.O4 ..EXPERIMENT/ MOLECULAR DYN
62-RU-02 RUSH, SAFFORD+ N.H4.P.F6/ (N.H4)2.S2.O8/ (N.H4)2.CR.O4/ N.H4.S.O3.F/ DIMETHYLACETYLENE ..EXPERIMENT/ MOLEC
4. 9 AMMONIUM DICHROMATE (N.H4)2.CR2.O7
- 61-RU-01 RUSH, TAYLOR+ K.H2.P.O4/ (N.H4)2.CR.O4/ (N.H4)2.CR2.O7/ N.H4.C.N.S/ N.H4.CL.O4 ..EXPERIMENT/ MOLECULAR DYN

4. 10 AMMONIUM DIHYDROGEN ORTHOARSENATE N.H4.H2.AS.O4
 73-DI-01 DIMIC, OSREDKAR+ N.H4.H2.P.O4/ N.H4.H2.AS.O4/ (N.H4)2.H3.I.O6 ..EXPERIMENT/ ROTATING CRYSTAL SPECTROMETER/
4. 11 AMMONIUM DIHYDROGEN ORTHOPHOSPHATE N.H4.H2.P.O4
 69-ME-01 MEISTER, SKALYO+ N.H4.H2.P.O4 ..EXPERIMENT/ SOLID ..@UASI-ELASTIC NEUTRON SCATTERING / TEMPERATURE DEPENDE
 72-AN-04 ANTONINI, SOSNOWSKA+ K.H2.P.O4/ N.H4.H2.P.O4 ..ELASTIC SCATTERING/ INTERFERENCE EFFECT/ PARAELECTRIC PHASE
 73-DI-01 DIMIC, OSREDKAR+ N.H4.H2.P.O4/ N.H4.H2.AS.O4/ (N.H4)2.H3.I.O6 ..EXPERIMENT/ ROTATING CRYSTAL SPECTROMETER/
4. 12 AMMONIUM DISULFATE (N.H4)2.S2.O8
 62-RU-02 RUSH, SAFFORD+ N.H4.P.F6/ (N.H4)2.S2.O8/ (N.H4)2.CR.O4/ N.H4.S.O3.F/ DIMETHYLACETYLENE ..EXPERIMENT/ MOLEC
 63-BR-01 BRAJOVIC, BOUTIN+ N.H4.P.F6/ N.H4.I/ (N.H4)2.S2.O8/ N.H4.S.O3.F ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAM
4. 13 AMMONIUM FLUOBERYLLATE (N.H4)2.BE.F4
 65-RU-02 RUSH, TAYLOR K4.FE.(C.N)6/ (N.H4)2.S.O4/ N.H4.H.S.O4/ (N.H4)2.BE.F4 ..EXPERIMENT/ MOLECULAR LATTICE DYNAMI
4. 14 AMMONIUM FLUORIDE N.H4.F
 60-RU-01 RUSH, TAYLOR+ N.H3/ N.H4.I/ N.H4.BR/ N.H4.CL/ N.H4.F ..EXPERIMENT/ MOLECULAR DYNAMICS ..TOTAL CROSS SECTIO
 62-RU-01 RUSH, TAYLOR+ N.H4.CL/ N.H4.I/ N.H4.F/ N.H4.BR/ BENZENE/ TOLUENE/ MESITYLENE/ XYLENE ..EXPERIMENT/ TOTAL C
 63-MI-02 MIKKE, KROH N.H4.CL/ N.H4.BR/ N.H4.F/ N.H4.N.O3 ..LATTICE DYNAMICS/ EXPERIMENT ..INVERTED FILTER METHOD
 65-BA-01 BAJOREK, MACHEKHINA+ N.H4.CL/ N.H4.BR/ N.H4.I/ N.H4.F/ N.H4.N.O3/ N.H4.C.N.S/ (N.H4)2.S.O4/ (N.H4)2.S2.O8/
 68-LE-03 LEUNG, TAYLOR+ N.H4.F/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.S.O4/ (N.H4)2.CR2.O7/ N.H4.CL.O4 ..EXPERIMENT/ TO
4. 15 AMMONIUM FLUOSILICATE (N.H4)2.SI.F6
 66-SC-01 SCHLEMPER, HAMILTON (N.H4)2.SI.F6 ..EXPERIMENT/ NEUTRON SPECTROSCOPY
4. 16 AMMONIUM FLUOSULFONATE N.H4.S.O3.F
 62-RU-02 RUSH, SAFFORD+ N.H4.P.F6/ (N.H4)2.S2.O8/ (N.H4)2.CR.O4/ N.H4.S.O3.F/ DIMETHYLACETYLENE ..EXPERIMENT/ MOLEC
 63-BR-01 BRAJOVIC, BOUTIN+ N.H4.P.F6/ N.H4.I/ (N.H4)2.S2.O8/ N.H4.S.O3.F ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAM
 63-JA-01 JANIK C.H4/ N.H4.I/ N.H4.CL/ N.H4.BR/ N.H4.S.O3.F ..SIGMA(E)/ SIGMA(E-E-PRIME,THETA)/ EXPERIMENT/ THE
4. 17 AMMONIUM HEXAFLUOPHOSPHATE N.H4.P.F6
 62-RU-02 RUSH, SAFFORD+ N.H4.P.F6/ (N.H4)2.S2.O8/ (N.H4)2.CR.O4/ N.H4.S.O3.F/ DIMETHYLACETYLENE ..EXPERIMENT/ MOLEC
 63-BR-01 BRAJOVIC, BOUTIN+ N.H4.P.F6/ N.H4.I/ (N.H4)2.S2.O8/ N.H4.S.O3.F ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAM
 64-JA-01 JANIK, JANIK+ C.H4/ C.H3.I/ DIMETHYLACETYLENE/ N.H4.CL.O4/ N.H4.P.F6/ H3.O.CL.O4/ DIMETHOXYAZOXYBENZENE
4. 18 AMMONIUM HYDROGEN SULFATE N.H4.H.S.O4

65-RU-02 RUSH, TAYLOR K4,FE.(C,N)6/ (N,H4)2,S.04/ N,H4,H,S.04/ (N,H4)2,BE,F4 ..EXPERIMENT/ MOLECULAR LATTICE DYNAMI

4. 19 AMMONIUM IODIDE

N,H4,I

60-RU-01 RUSH, TAYLOR+ N,H3/ N,H4,I/ N,H4,BR/ N,H4,CL/ N,H4,F ..EXPERIMENT/ MOLECULAR DYNAMICS ..TOTAL CROSS SECTIO
 62-RU-01 RUSH, TAYLOR+ N,H4,CL/ N,H4,I/ N,H4,F/ N,H4,BR/ BENZENE/ TOLUENE/ MESITYLENE/ XYLENE ..EXPERIMENT/ TOTAL C
 63-BR-01 BRAJOVIC, BOUTIN+ N,H4,P,F6/ N,H4,I/ (N,H4)2,S2.08/ N,H4,S.03,F ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAM
 63-JA-01 JANIK C,H4/ N,H4,I/ N,H4,CL/ N,H4,BR/ N,H4,S.03,F ..SIGMA(E,F-PRIME,THETA)/ EXPERIMENT/ THE
 65-BA-01 BAJOREK, MACHEKHINA+ N,H4,CL/ N,H4,BR/ N,H4,I/ N,H4,F/ N,H4,N.03/ N,H4,C.N.S/ (N,H4)2,S.04/ (N,H4)2,S2.08/
 65-MI-01 MIKKE, DOBRZYNSKI N,H4,I/ K,I ..FREQUENCY SPECTRA/ SOLID SOLUTION
 65-VE-01 VENKATARAMAN, DENIZ+ V/ N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,SN,CL6/ (N,H4)2,SN,BR6 ..EXPERIMENT/ ELASTIC SCA
 66-BR-02 BROECKER N,H4,CL/ N,H4,BR/ N,H4,I/ ZR-H/ TI-H ..SIGMA(E)/ EXPERIMENT/ CRYSTAL SPECTROMETER
 66-KO-05 KOSALY, SOLT C,H4/ N,H4,I ..THEORY/ DIFFERENTIAL CROSS SECTION ..86DK FOR C,H4/ ROOM TEMP. FOR N,H4,I
 66-VE-04 VENKATARAMAN, DENIZ+ N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,SN,CL6/ (N,H4)2,SN,BR6 ..EXPERIMENT/ ROTATIONAL MOD
 68-LE-03 LEUNG, TAYLOR+ N,H4,F/ N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,S.04/ (N,H4)2,CR2.07/ N,H4,CL.04 ..EXPERIMENT/ TO
 69-DU-01 DURIG, ANTION N,H4,I ..SOLID/ EXPERIMENT ..RAMAN SPECTRA/ FAR INFRARED SPECTRA
 74-JN-01 INOUE, KIYANAGI N,H4,CL/ N,H4,BR/ N,H4,I ..CALCULATION/ SCATTERING FORM FACTOR/ ONE-DIMENSIONAL ROTOR

4. 20 AMMONIUM NITRATE

N,H4,N,03

63-MI-02 MIKKE, KROH N,H4,CL/ N,H4,BR/ N,H4,F/ N,H4,N.03 ..LATTICE DYNAMICS/ EXPERIMENT ..INVERTED FILTER METHOD
 65-BA-01 BAJOREK, MACHEKHINA+ N,H4,CL/ N,H4,BR/ N,H4,I/ N,H4,F/ N,H4,N.03/ N,H4,C.N.S/ (N,H4)2,S.04/ (N,H4)2,S2.08/

4. 21 AMMONIUM PERCHLORATE

N,H4,CL,04

61-RU-01 RUSH, TAYLOR+ K,H2,P,04/ (N,H4)2,CR,04/ (N,H4)2,CR2.07/ N,H4,C.N.S/ N,H4,CL.04 ..EXPERIMENT/ MOLECULAR DYN
 64-JA-01 JANIK, JANIK+ C,H4/ C,H3,I/ DIMETHYLACETYLENE/ N,H4,CL.04/ N,H4,P.F6/ H3,O,CL.04/ DIMETHOXYAZOXYBENZENE
 64-RU-01 RUSH, TAYLOR HEXAMETHYLBENZENE/ AMMONIUM PERCHLORATE ..EXPERIMENT/ ROTATIONAL MOTION
 70-JA-02 JANIK, JANIK+ N,H4,CL,04 ..EXPERIMENT/ FREQUENCY SPECTRA
 75-PR-01 PRASK, TREVINO+ AMMONIUM PERCHLORATE ..EXPERIMENT/ QUASIELASTIC/ 66-150PK/ ROTATIONAL MOTION OF N,H4 ION

4. 22 AMMONIUM SULFATE

(N,H4)2,S,04

65-RU-02 RUSH, TAYLOR K4,FE.(C,N)6/ (N,H4)2,S.04/ N,H4,H,S.04/ (N,H4)2,BE,F4 ..EXPERIMENT/ MOLECULAR LATTICE DYNAMI
 68-LE-03 LEUNG, TAYLOR+ N,H4,F/ N,H4,CL/ N,H4,BR/ N,H4,I/ (N,H4)2,S.04/ (N,H4)2,CR2.07/ N,H4,CL.04 ..EXPERIMENT/ TO
 70-DO-01 DOHLBORG, LARSSON+ AMMONIUM SULFATE ..EXPERIMENT/ COLD NEUTRON SPECTROMETER/ FERROELECTRICITY/ PHASE TRANS
 70-KI-01 KINE, GOYAL+ (N,H4)2,S.04 ..EXPERIMENT/ SOLID/ MOLECULAR ROTATION
 71-TR-03 TREFLER (N,H4)2,S.04 ..FAR INFRARED EXPERIMENT
 72-SA-01 SAKAMOTO, IIZUMI+ K,H,F2/ (N,H4)2,S.04/ POLYETHYLENE ..EXPERIMENT/ BE-FILTER-DETECTOR/ MOLECULAR DYNAMICS

4. 23 AMMONIUM THIOCYANATE

N,H4,C,N,S

61-RU-01 RUSH, TAYLOR+ K,H2,P,04/ (N,H4)2,CR,04/ (N,H4)2,CR2.07/ N,H4,C.N.S/ N,H4,CL.04 ..EXPERIMENT/ MOLECULAR DYN

4. 24 AMMONIUM TRIHYDROGEN PARAPERIODATE

(N,H4)2,H3,I,06

- 73-DI-01 DIMIC, OSREDKAR+ N.H4.H2.P.O4/ N.H4.H2.AS.O4/ (N.H4)2.H3.I.O6 ..EXPERIMENT/ ROTATING CRYSTAL SPECTROMETER/
- 4, 25 ALUMINIUM CHLORIDE AL.CL3
- 64-BO-02 BOUTIN, PRASK H2.O/ WATER-SILICA/ WATER-ALUMINA/ AL.CL3 ..EXPERIMENT/ MOLECULAR DYNAMICS ..H2.O VAPOR ADSO
- 4, 26 ALUMINIUM NITRIDE AL.N
- 67-CO-02 COLLINS, LIGHTOWLERS+ AL.N ..OPTICAL EXPERIMENT
- 4, 27 ALUMINIUM PHOSPHATE AL.P.O4
- 70-SC-05 SCOTT AL.P.O4 ..ANHARMONICITY/ EXPERIMENT/ RAMAN
- 4, 28 ANALCITE
- 64-BO-01 BOUTIN, SAFFORD+ BA.CL2/ CHABAZITE/ ANALCITE/ CU.S.O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM
- 4, 29 APOPHYLLITE
- 64-BO-01 BOUTIN, SAFFORD+ BA.CL2/ CHABAZITE/ ANALCITE/ CU.S.O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM
- 4, 30 BARIUM CHLORIDE BA.CL2
- 64-BO-01 BOUTIN, SAFFORD+ BA.CL2/ CHABAZITE/ ANALCITE/ CU.S.O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM
- 4, 31 BARIUM CHLORATE HYDRATE BA.(CL.O3)2.H2.O
- 69-TH-01 THAPER, SEQUEIRA+ K2.C2.O4.H2.O/ BA.(CL.O3)2.H2.O/ LI2.S.O4.H2.O/ CA.S.O4.H2.O/ CU.CL2.H2.O/ BE.S.O4
- 70-TH-01 THAPER, DASANNACHARYA+ BA.(CL.O3)2.H2.O/ K2.C2.O4.H2.O ..EXPERIMENT/ HYDRATES/ LIBRATION OF H2.O IN HYDRAT
- 4, 32 BARIUM FLUORIDE BA.F2
- 70-DE-03 DENHAM, FIELD+ CA.F2/ SR.F2/ BA.F2/ CD.F2/ PB.F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION
- 70-HU-01 HURRELL, MINKIEWICZ BA.F2 ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES/ SPECTRAL DENSITY ..SHELL MODE
- 72-KU-01 KUEHNER, WAGNER SR.F2/ BA.F2 ..THEORY/ PHONON DISPERSION/ GENERALIZED SHELL MODEL/ VIBRONIC SPECTRA
- 4, 33 BARIUM OXIDE BA.O
- 71-CA-01 CALTIER, MONTANER MG.O/ CA.O/ SR.O/ BA.O ..THEORY/ PHONON DISPERSION
- 75-CH-01 CHANG, TOMPSON+ BA.O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING/ FREQUENCY SPECTRA/ DEBYE TEMPER

4. 34 BARIUM TITANATE

BA, TI, O3

61-PE-01 PELAH, LEEKOWITE BA, TI, O3 ..FERROELECTRICITY/ PARAELECTRICITY/ EXPERIMENT
 66-SO-01 SOLOVEV, KUKHTO+ SR, TI, O3/ BA, TI, O3/ PB, TI, O3 ..EXPERIMENT/ LATTICE VIBRATION ..POLYCRYSTAL/ ROOM TEMP/ 47
 67-SH-02 SHIRANE, FRAZER+ BA, TI, O3 ..EXPERIMENT/ LATTICE DYNAMICS
 69-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS/ BA, TI, O3/ K, H2, P, O4/ NA, N, O2 ..THEORY/ DIELECTRIC/ CRITICAL SCATT
 69-HU-02 HUELLER BA, TI, O3 ..THEORY/ LATTICE DYNAMICS/ PHASE TRANSITION ..SOFT OPTICAL MODE
 69-YA-02 YAMADA, SHIRANE BA, TI, O3 ..EXPERIMENT/ CRITICAL SCATTERING/ QUASI-ELASTIC SCATTERING ..OVERDAMPED PHONON M
 70-SH-08 SHIRANE, AXE+ BA, TI, O3 ..EXPERIMENT/ LATTICE DYNAMICS
 71-HA-04 HARADA, AXE+ BA, TI, O3 ..EXPERIMENT/ DISPERSION RELATION/ SOFT OPTIC PHONON/ TEMPERATURE CHANGE/ MODE INTERAC
 71-IS-01 ISHIBASHI, TAKAGI BA, TI, O3/ SR, TI, O3 ..THEORY/ CALCULATION/ FORCE CONSTAT ANALYSIS
 72-HA-02 HARADA BA, TI, O3 ..SOFT PHONON MODE/ EXPERIMENT/ PHASE TRANSITION
 72-IS-02 ISHIBASHI BA, TI, O3/ SR, TI, O3 ..THEORY/ FORCE CONSTANT

4. 35 BERYLLIUM FLUORIDE

BE, F2

70-LE-01 LEADBETTER, WRIGHT BE, F2 ..INELASTIC SCATTERING/ COLD NEUTRON

4. 36 BERYLLIUM OXIDE

BE, O

62-BR-04 BRUGGER BE/ BE, O/ GRAPHITE/ H2, O/ D2, O/ METHANE/ PROPANE/ TERPHENYL/ COMPILATIONS ..SCATTERING FUNCTION
 63-SI-01 SINCLAIR BE/ BE, O ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ TOF ..293 DK
 64-HA-02 HAYWOOD, SINCLAIR GRAPHITE/ BE/ BE, O ..COMPILATION/ SCATTERING FUNCTION
 64-PR-01 PRYOR BE, O ..THEORY/ SOLID ..ELECTRICAL CONDUCTIVITY
 64-PR-02 PRYOR, SABINE BE, O ..EXPERIMENT ..NEUTRON DIFFRACTION MEASUREMENTS/ DEBYE PARAMETER
 65-OT-01 OTTEWITTE BE, O ..SIGMA(E)/ EXPERIMENTS/ SOLID ..290DK/ 800DK/ 1300DK/ 1500DK
 66-AN-03 ANTUNEZ, BEYSTER+ BE, O/ H2, O/ D2, O/ ZR-H ..EXPERIMENT/ THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
 66-BE-01 BENTLE BE, O ..EXPERIMENT/ LATTICE DYNAMICS
 66-BE-06 BEYSTER, NEILL+ H2, O/ D2, O/ ZR-H/ GRAPHITE/ BE, O ..NEUTRON SPECTRUM/ COMPILATION/ LIQUID/ GAS
 66-BR-04 BRUGGER, STRONG+ BE, O ..EXPERIMENT/ DISPERSION RELATION/ ROTATING CRYSTAL SPECTROMETER ..ROOM TEMPERATURE
 66-YO-01 YOUNG BE/ C/ BE, O ..SCATTERING FUNCTION/ THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DIS
 66-YO-02 YOUNG, KOPPEL BE, O ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRUM ..(THIS IS A PREPRINT
 67-BR-04 BRUGGER, STRONG BE, O ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..ROOM TEMPERATURE
 68-BO-01 BORGONOV I BE, O ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..RIGID ION
 68-LO-01 LOH BE, O ..LATTICE DYNAMICS/ EXPERIMENT ..ROOM TEMP./ INFRARED REFLECTION/ RAMAN SPECTRAL SHIFTS/ S
 68-OS-01 OSTHELLER, SCHMUNK+ BE, O ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMICS/ DISPERSION RELATION
 68-OS-02 OSTHELLER, SCHMUNK+ BE, O ..DISPERSION RELATION/ CRYSTAL SPECTROMETER/ LATTICE DYNAMICS/ EXPERIMENT/ SOLID/
 68-PA-01 PAGE, HAYWOOD H2, O/ D2, O/ GRAPHITE/ BE/ BE, O ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR
 69-NU-01 NUSIMOVICI BE, O ..THEORY
 69-SC-02 SCHROEDER BE, O ..DEBYE-WALLER FACTOR/ FREQUENCY DISTRIBUTION/ SCATTERING LAW/ SIGMA(E)/ SIGMA(E-E-PRIME)/
 70-HE-01 HEWAT ZN, O/ BE, O ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES

4. 37 CADMIUM FLUORIDE

CD, F2

70-DE-03 DENHAM, FIELD+ CA, F2/ SR, F2/ BA, F2/ CD, F2/ PB, F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION
 71-GO-01 GOBEAU, HEURET CD, F2 ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA

4. 38 CADMIUM SULFIDE CD,S
 65-NU-01 NUSIMOVICI, BIRMAN CD,S ..LATTICE DYNAMICS
 70-NU-01 NUSIMOVICI, BALKANSKI+ CD,S ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES/ FREQUENCY SPECTRUM ..SEMI-IONIC
 70-RA-02 RAMASESHAN, VISWANATHAN CD,S ..ANOMALOUS SCATTERING
4. 39 CADMIUM TELLURIDE CD,TE
 73-TA-02 TALWAR, AGRAWAL ZN,TE/ CD,TE ..CALCULATION/ SECOND-NEIGHBOR-IONIC MODEL
 74-RO-04 ROWE, NICKLOW+ CD,TE ..EXPERIMENT/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..14PARAMETER SHELL MODEL
4. 40 CALCITE CA,C,03
 69-CO-07 COWLEY CALCITE/ CORUNDUM ..THEORY/ LATTICE DYNAMICS
 71-PL-03 PLIHAI, SCHAACK CA,C,03 ..THEORY/ PHONON DISPERSION/ SHELL MODEL
 73-CO-05 COWLEY, PANT CA,C,03 ..DISPERSION RELATION/ INELASTIC NEUTRON SCATTERING
 73-PL-01 PLIHAI CA,C,03 ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ SHELL MODEL
4. 41 CALCIUM FLUORIDE CA,F2
 63-CR-01 CRIBIER, FARNOUX+ CA,F2 ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS
 69-VI-01 VIJAYARAGHAVAN, IYENGAR CA,F2 ..EXPERIMENT/ PHONON DISPERSION
 70-DE-03 DENHAM, FIELD+ CA,F2/ SR,F2/ BA,F2/ CD,F2/ PB,F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION
 70-EL-01 ELCOMBE, PRYOR CA,F2 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY S
 71-EL-01 ELCOMBE, PRYOR CA,F2 ..EXPERIMENT/ PHONON DISPERSION
 72-II-01 IIZUMI CA,F2
 72-ST-01 STEELE, CHILDS+ CA,F2/ SCATTERING-BY-DEFECTS ..DIFFUSE SCATTERING
 73-II-01 IIZUMI CA,F2 ..EXPERIMENT/ PHONON WIDTH/ TEMPERATURE EFFECT
4. 42 CALCIUM HYDROXIDE CA,(O,H)2
 63-SA-01 SAFFORD, BRAJOVIC+ MG,(O,H)2/ CA,(O,H)2 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
 65-PE-02 PELAH, KREBS+ CA,(O,H)2/ MG,(O,H)2/ LI,O,H ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
 71-BA-02 BAJOREK, JANIK CALCIUM HYDROXIDE ..FREQUENCY DISTRIBUTION
4. 43 CALCIUM OXIDE CA,O
 71-CA-01 CALTIER, MONTANER MG,O/ CA,O/ SR,O/ BA,O ..THEORY/ PHONON DISPERSION
 71-SA-02 SAUNDERSON, PECKHAM CA,O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING
 71-SA-03 SAUNDERSON, PECKHAM CA,O ..EXPERIMENT/ DISPERSION CURVE/ NEUTRON SCATTERING/ THEORY/ FREQUENCYSPECTRUM ..T
 72-UP-02 UPADHYAYA, SINGH CA,O ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 72-VI-01 VIJAYARAGHAVAN, MARSONGKOHADI+ CA,O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING/ PHONON SPECTRA
 75-UP-02 UPADHYAYA, SINGH CA,O/ SR,O ..THEORY/ LATTICE DYNAMICS/ THREE BODY FORCE SHELL MODEL/ PHONON DISPERSION/ D
 75-UP-04 UPADHYAYA, SINGH CA,O/ SR,O ..THEORY/ LATTICE DYNAMICS/ THREE-BODY FORCE SHELL MODEL/ PHONON DISPERSION/ D
4. 44 CALCIUM SULFATE DIHYDRATE CA,S,04*2(H2,O)

69-TH-01 THAPER, SEQUEIRA+ K2.C2.04*H2.O/ BA.(CL.O3)2*H2.O/ L12.S.04*H2.O/ CA.S.04*2(H2.O)/ CU.CL2*2(H2.O)/ BE.S.04

4, 45 CARBON DIOXIDE

C.O2

66-BA-02 BATA, KROO C.O2 ..EXPERIMENT ..NEUTRON SCATTERING/ DENSITY FLUCTUATION/ CRITICAL POINT
 67-BA-04 BATA, KROO C.O2/ C.S2 ..CRITICAL SCATTERING
 68-BA-04 BATA, KROO C.O2/ C.S2 ..EXPERIMENT ..CRITICAL SCATTERING
 68-WA-02 WALMSLEY C.O2 ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 71-SU-01 SUZUKI, SCHNEPP C.O2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 72-JA-01 JACOBI, SCHNEPP C.O2/H2/ N2 ..THEORY/ LATTICE DYNAMICS ..QUADRAPOL-QUADRAPOL POTENTIAL
 72-PO-03 POWELL, DOLLING+ C.O2 ..EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
 75-BE-02 BERNEY C.O2 ..NEUTRON SCATTERING SPECTRUM
 75-BE-03 BERNEY C.O2 ..CALCULATION/ SOLID

4, 46 CARBON DISULFIDE

C.S2

68-BA-04 BATA, KROO C.O2/ C.S2 ..EXPERIMENT ..CRITICAL SCATTERING
 75-GR-01 GROUT, LEECH+ C.S2/ CL ..THEORY/ LATTICE DYNAMICS/ SOLID

4, 47 CARBON OXIDE

C.O

68-MI-01 MIKA, DORNER+ C.O ..EXPERIMENT/ CONST.-0 ..77.3DK FOR LIQUID/ 63.1DK FOR SOLID
 69-SH-05 SHINODA, ENOKIDO C.O ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION

4, 48 CARBON TETRACHLORIDE

C.CL4

68-O-01 O-REILLY C.CL4/ C.H.CL3/ C6.H5.CL/ H.F/ H.CL/ N.H3/ H2.O ..CORRELAION FUNCTION/ MOLECULAR ROTATIONS/ LIQUID
 68-RA-05 RAO C.CL4 ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
 71-EG-01 EGELSTAFF, PAGE+ RB/ AR/ C.CL4 ..EXPERIMENT/ TRIPLET CORRELATION FUNCTION/ THEORY
 71-EG-02 EGELSTAFF, PAGE+ C.CL4/ GE.BR4 ..EXPERIMENT/ MOLECULAR LIQUID DYNAMICS

4, 49 CARBON TETRAFLUORIDE

C.F4

52-PO-01 POPE C.H4/ C.F4 ..MOLECULAR DYNAMICS/ THEORY
 65-CH-02 CHEN, EDER+ NEON/ ARGON/ DEUTERIUM/ CARBON TETRAFLUORIDE ..EXPERIMENT/ LIQUID/ SIGMA(THETA,E)
 68-FO-03 FOURNIER, SAVOIE+ C.F4 ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID/ SOLID ..70DK/ 125DK/ INFRA-RED/ RAMAN

4, 50 CESIUM AZIDE

CS.N3

69-GO-01 GOVINDARAJAN, HARIDASAN K.N3/ RB.N3/ CS.N3 ..THEORY/ LATTICE VIBRATION ..RIGID ION MODEL/ BODY CENTERED TE

4, 51 CESIUM CHLORIDE

CS.CL

68-KA-04 KARO, HARDY CS.CL/ CS.BR/ CS.I ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..R

68-WA-03 WARREN CS.CL/ MG ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES/ SPACE GROUP/ IRREDUCIBLE REP
 69-SA-03 SAFFORD, LEUNG+ H2.O/ LA.CL3/ CS.I/ K.BR/ K.I/ K.BR/ K.CL/ NA.CL ..EXPERIMENT/ TOF SPECTRA/ INTERMOLECULA
 70-VE-03 VETELINO, MITRA+ CS.CL/ CS.BR/ CS.I ..THEORY/ DISPERSION CURVES ..RIGID ION MODEL/ BORN-MAYER FORCE/ GRUNE
 71-MA-03 MAHLER, SCHROEDER CS.BR/ CS.CL ..THEORY/ PHONON DISPERSION
 72-AH-01 AHMAD, SMITH+ CS.CL ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECTRUM
 72-CA-01 CARABATOS, PREVOT CS.CL/ CS.BR/ CS.I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DIS
 72-LA-03 LAL, VERMA CS.CL/ CS.BR/ CS.I ..CALCULATION/ PHONON DISPERSION/ THREE BODY FORCE SHELL MODEL
 72-RA-05 RAM, AGRAWAL CS.CL ..THEORY/ LOCALIZED MODE/ GAP MODE/ H, D, K IMPURITY
 73-VE-03 VETELINO, NAMJOSHI+ CS.CL/ CS.BR/ CS.I ..THEORY/ PHONON DISPERSION/ MODIFIED-RIGID-ION MODEL

4. 52 CESIUM BROMIDE

CS.BR

68-KA-04 KARO, HARDY CS.CL/ CS.BR/ CS.I ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..R
 70-DA-01 DAUBERT CS.BR ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..TOF/ PSEUDOSTATISTICAL CHOPPER/ 300
 70-VE-03 VETELINO, MITRA+ CS.CL/ CS.BR/ CS.I ..THEORY/ DISPERSION CURVES ..RIGID ION MODEL/ BORN-MAYER FORCE/ GRUNE
 71-MA-03 MAHLER, SCHROEDER CS.BR/ CS.CL ..THEORY/ PHONON DISPERSION
 71-RO-01 ROLANDSON, RAUNIO CS.BR ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING/ PHONON DENSITY
 71-RO-03 ROLANDSON, RAUNIO CS.BR ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING/ PHONON DENSITY/ DEBYE-TEMP.
 72-CA-01 CARABATOS, PREVOT CS.CL/ CS.BR/ CS.I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DIS
 72-DA-03 DAUBERT CS.BR ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING
 72-LA-03 LAL, VERMA CS.CL/ CS.BR/ CS.I ..CALCULATION/ PHONON DISPERSION/ THREE BODY FORCE SHELL MODEL
 73-VE-03 VETELINO, NAMJOSHI+ CS.CL/ CS.BR/ CS.I ..THEORY/ PHONON DISPERSION/ MODIFIED-RIGID-ION MODEL
 74-VE-01 VETELINO, ROY+ CS.BR ..THEORY/ SECOND GRUENEISEN CONSTANT/ MODIFIED RIGID ION MODEL/ PRESSURE DEPENDENT LA

4. 53 CESIUM FLUORIDE

CS.F

73-BU-01 BUEHER CS.F ..EXPERIMENT/ PHONON DISPERSION/ SEVEN PARAMETER SHELL MODEL FITTING/ PHONON SPECTRA/ HEAT
 74-GU-01 GUPTA CS.F ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..THREE-BODY FORCE SHELL MODEL
 75-SI-08 SINGH, AGARWAL CS.F ..PHONON DISPERSION RELATION/ SHELL MODEL/ THEORY

4. 54 CESIUM HYDROGEN BROMIDE

CS.H, BR2

73-SM-02 SMITH, TEMME+ NA.H.F2/ K.H.F2/ CS.H.CL2/ CS.H.BR2 ..EXPERIMENT/ FREQUENCY SPECTRA/ TOF SPECTRA

4. 55 CESIUM HYDROGEN CHLORIDE

CS.H, CL2

70-CO-02 COLLINS, HAYWOOD+ K.H.F2/ CS.H.CL2/ NA.H.C.O3/ K.C2.CL3.O2/ K.C2.F3.O2 ..EXPERIMENT/ MOLECULAR DYNAMICS/ F
 70-ST-01 STIRLING, LUDMAN+ CS.H.CL2 ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY SPECTRA ..COLD NEUTRON SOURCE
 72-GH-02 GHOSH, WADDINGTON+ NA.H.F2/ CS.H.CL2/ H.CO.O2/ H.CO.O2/ K.H.C.CL3.C.O2.2 ..EXPERIMENT/ NEUTRON SPECTROSCO
 73-SM-02 SMITH, TEMME+ NA.H.F2/ K.H.F2/ CS.H.CL2/ CS.H.BR2 ..EXPERIMENT/ FREQUENCY SPECTRA/ TOF SPECTRA

4. 56 CESIUM HYDROSULFIDE

CS.S, H

73-RO-02 ROWE, LIVINGSTON+ CS.S.H/ RB.S.H ..EXPERIMENT/ QUASI-ELASTIC PEAK/ MOLECULAR ROTATIONS/ MEAN SQUARE DISPLA
 73-RU-02 RUSH, DE-GRAFF+ NA.S.H/ CS.S.H ..THEORY/ EXPERIMENT/ QUASI-ELASTIC PEAK/ SIGMA (THETA,E) ..SH-ION LIBRATIO

4. 57 CESIUM IODIDE CS,I
 68-KA-04 KARO, HARDY CS,CL/ CS, BR/ CS,I ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..R
 69-SA-03 SAFFORD, LEUNG+ H2.O/ LA,CL3/ CS,I/ CS,CL/ K,I/ K, BR/ K,CL/ NA,CL ..EXPERIMENT/ TOF SPECTRA/ INTERMOLECULA
 70-VE-03 VETELINO, MITRA+ CS,CL/ CS, BR/ CS,I ..THEORY/ DISPERSION CURVES ..RIGID ION MODEL/ BORN-MAYER FORCE/ GRUNE
 71-BU-01 BUHRER, HALG CS,I ..PHONON DISPERSION
 72-AG-01 AGRAWAL, RAM CS,I ..THEORY/ IMPURITY EFFECT/ LATTICE DYNAMICS
 72-CA-01 CARABATOS, PREVOT CS,CL/ CS, BR/ CS,I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DIS
 72-LA-03 LAL, VERMA CS,CL/ CS, BR/ CS,I ..CALCULATION/ PHONON DISPERSION/ THREE BODY FORCE SHELL MODEL
 73-VE-03 VETELINO, NAMJOSHI+ CS,CL/ CS, BR/ CS,I ..THEORY/ PHONON DISPERSION/ MODIFIED-RIGID-ION MODEL
4. 58 CESIUM LEAD CHLORIDE CS,PB,CL3
 73-YA-01 YAMADA, FUJII+ CS,PB,CL3 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE
4. 59 CESIUM NICKEL FLUORIDE CS,NI,F3
 74-ST-02 STEINER, DORNER+ CS,NI,F3/ MAGNETIC-SCATTERING ..CONSTANT-0 METHOD/ CORRELATION FUNCTION/ SPIN WAVE
4. 60 CESIUM URANIUM BROMIDE CS2,U, BR6
 71-CH-04 CHODOS CS2,U, BR6 ..THEORY/ PHONON DISPERSION
 72-CH-03 CHODOS CS2,U, BR6 ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
4. 61 CHABAZITE CHABAZITE
 64-BO-01 BOUTIN, SAFFORD+ BA,CL2/ CHABAZITE/ ANALCITE/ CU,S, O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM
4. 62 CHALCOPYRITE CU,FE,S2
 75-PO-02 POPLAVNOI, TYUTEREV CU,FE,S2 ..CALCULATION/ PHONON SPECTRUM/ HARD ION MODEL
4. 63 CHROMIUM SESQUIOXIDE CR2,O3
 69-AL-01 ALIKHANOV, DIMITRIJEVIC+ CR2,O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION RELATION/ ALPHA,CR2,O
4. 64 CHROMIUM(3) ACID H,CR,O2
 66-RU-02 RUSH, FERRARO H,CR,O2 ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ MOLECULAR CRYSTAL DYNAMICS ..TOF/ H,CR,O2 AND
 72-GH-02 GHOSH, WADDINGTON+ NA,H,F2/ CS,H,CL2/ H,CR,O2/ H,CO,O2/ K,H,(C,CL3,C,O2)2 ..EXPERIMENT/ NEUTRON SPECTROSCO
4. 65 CINNABAR HG,S
 73-NU-01 NUSIMOVICI, GORRE HG,S ..THEORY/ PHONON DISPERSION/ VELOCITY OF SOUND

- 4, 66 COBALT HYDROGEN CARBONYL H.CO.(C.O)4
 72-WH-03 WHITE, WRIGHT H.CO.(C.O)4/ H2.FE.(C.O)4/ H.MN.(C.O)5/ K.H.FE.(C.O)4/ H3.MN3.(C.O)12/ CS.H.FE3.(C.O)11 .EX
- 4, 67 COBALT FLUORIDE CO.F2
 68-MA-05 MARTEL, COWLEY+ CO.F2 ..EXPERIMENT/ CONSTANT-Q METHOD/ DISPERSION RELATION ..80DK/ 4.2DK/ RIGID ION MODEL
- 4, 68 COBALT OXIDE CO.O
 68-SA-02 SAKURAI, BUYERS+ CO.O ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..3-AXIS SPECTROMETER/ 425DK/ 11
 72-UP-01 UPADHYAYA, SINGH CO.O ..THEORY/ PHONON DISPERSION/ THREE-BODY FORCE SHELL MODEL
 74-UP-01 UPADHYAYA, SINGH MN.O/ CO.O/ NI.O ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS ..THREE-BODY FORCE SHELL
- 4, 69 COBALT PHOSPHIDE CO.P
 75-BL-03 BLETRY, SADOC CO.P/ MAGNETIC-SCATTERING ..EXPERIMENT/ PAIR-CORRELATION FUNCTION
 75-HE-01 HEIDEMANN CO.P/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNETIC HYPERFINE SPLITTING
- 4, 70 COBALT PHOSPHIDE CO4.P
 75-MO-02 MOOK, WAKABAYASHI+ CO4.P/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
- 4, 71 COBALT(3) ACID H.CO.O2
 72-GH-02 GHOSH, WADDINGTON+ NA.H.F2/ CS.H.CL2/ H.CR.O2/ H.CO.O2/ K.H.(C.CL3.C.O2)2 ..EXPERIMENT/ NEUTRON SPECTROSCO
- 4, 72 COPPER BROMIDE CU.BR
 73-PR-03 PREVOT, CARABATOS+ CU.BR ..DISPERSION CURVE
 74-PA-06 PANDEY, DAYAL CU.BR/ CU.I ..DISPERSION-CURVES
- 4, 73 COPPER CHLORIDE DIHYDRATE CU.CL2*2(H2.O)
 69-TH-01 THAPER, SEQUEIRA+ K2.C2.O4*H2.O/ BA.(CL.O3)2*H2.O/ LI2.S.O4*H2.O/ CA.S.O4*2(H2.O)/ CU.CL2*2(H2.O)/ BE.S.O4
- 4, 74 COPPER IODIDE CU.I
 72-HE-02 HENNION, MOUSSA CU.I ..EXPERIMENT/ DISPERSION RELATION/ RIGID ION MODEL/ FREQUENCY DISTRIBUTION/ ELASTIC C
 74-PA-06 PANDEY, DAYAL CU.BR/ CU.I ..DISPERSION-CURVES

4. 75 COPPER SULFATE CU, S, O4
 64-80-01 BOUTIN, SAFFORD+ BA, CL2/ CHABAZITE/ ANALCITE/ CU, S, O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM
4. 76 CORUNDUM AL2.O3
 69-CO-07 COWLEY CALCITE/ CORUNDUM ..THEORY/ LATTICE DYNAMICS
 74-CA-03 CATALIOTTI CORUNDUM ..PHONON-SPECTRUM
 75-81-01 BIALAS, STOLZ CORUNDUM ..EXPERIMENT/ PHONON DISPERSION/ SAPPHIRE
 75-KA-03 KAPPUS AL2.O3 ..LATTICE DYNAMICS/ RIGID ION/ THEORY
 75-KA-04 KAPPUS CORUNDUM ..CALCULATION/ PHONON DISPERSION/ RIGID ION MODEL/ SAPPHIRE
4. 77 CRISTOBALITE SI.O2
 69-LE-01 LEADBETTER SILICA/ QUARTZ/ CRISTOBALITE ..EXPERIMENT/ COLLECTIVE VIBRATION/ AMORPHOUS SOLID ..TOF/ SILICA/
 72-LE-02 LEADBETTER, STRINGFELLOW SI.O2 ..EXPERIMENT/ VITREOUS SILICA/ ALPHA QUARTZ/ PHONON SPECTRA
 74-ET-01 ETCHEPARE, MERIAN+ SI.O2 ..THEORY/ NORMAL MODE/ COMPARED TO OPTICAL DATA
 75-81-02 BILIR, PHILLIPS SI.O2 ..EXPERIMENT/ DISPERSION RELATION ..2DK-20DK/ AMORPHOUS/ SPECIFIC HEAT
4. 78 CUPRITE CU2.O
 71-CA-03 CARABTOS, PREVOT CU2.O ..THEORY/ PHONON DISPERSION/ RIGID ION MODEL/ PHONON SPECTRUM
 73-DA-01 DAWSON, HARGREAVE+ CU2.O ..I.R. AND RAMAN EXPERIMENT
4. 79 CUPROUS CHLORIDE CU,CL
 71-CA-02 CARABATOS, HENNION+ CU,CL ..EXPERIMENT/ PHONON DISPERSION CURVES/ ROOM TEMP.
 74-PA-05 PANDEY CU,CL ..THEORY/ SOLID/ ..RIGID ION MODEL
 75-VA-01 VARDENY, GILAT+ CU,CL ..SOLID/ THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS ..BREATHING SHELL MODEL/ RIGI
4. 80 DIAMMINEPENTACHLORODIMETHYLCOBALT (C.H3.N.H3)2.MN.CL4
 75-PE-01 PETZELT (C.H3.N.H3)2.MN.CL4 ..THEORY/ SOLID/ LATTICE DYNAMICS ..PHASE TRANSITION
4. 81 DICARBON HEXAFLUORIDE C2.F6
 67-CA-03 CARPENTER C2.F6/ BR2 ..SCATTERING LAW/ CORRELATION FUNCTION/ THEORY/ GAS/ MOLECULAR DYNAMICS ..TORSIONAL
 68-CA-02 CARPENTER, SCHAEFER BR/ C2.F6 ..SCATTERING THEORY
 68-CA-03 CARPENTER, LURIE C2.F6/ C.H4 ..EXPERIMENT/ GAS/ SCATTERING FUNCTION
4. 82 DYSPROSIUM VANADATE DY.V.O4
 72-ME-01 MELCHER, SCOTT DY.V.O4 ..EXPERIMENT/ ELASTIC CONSTANT/ SOFT MODE/ MEAN FIELD THEORY/ CRITICAL FLUCTUATION

4. 83 DYSPROSIUM ANTIMONIDE DY,SB
 75-TA-03 TAUB, PARENTE MAGNETIC-SCATTERING/ HO,SB/ DY,SB ..EXPERIMENT/ CRITICAL SCATTERING
4. 84 ERBIUM IRON OXIDE ER,FE.O3
 74-SH-01 SHAPIRO, AXE TM,FE.O3/ ER,FE.O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION/ SOFT MODE
4. 85 GADOLINIUM MOLYBDATE
 73-BO-05 BOYER, HARDY GADOLINIUM MOLYBDATE/ PHASE-TRANSITION ..THEORY/ RIGID-ION MODEL/ PHONON DISPERSION/ FREQUENC
4. 86 GALLIUM ANTIMONIDE GA,SB
 73-FA-01 FARR GA,SB ..THESIS/ LATTICE DYNAMICS/ DISPERSION/ PHONON SPECTRA/ DEBYE TEMP.
 75-FA-01 FARR, TRAYLOR+ GA,SB ..LATTICE DYNAMICS/ COHERENT INELASTIC SCATTERING
4. 87 GALLIUM ARSENIDE GA,AS
 63-WA-01 WAUGH, DOLLING GA,AS ..EXPERIMENT/ DISPERSION RELATION
 65-DO-03 DOLLING, WAUGH GA,AS ..EXPERIMENT/ DISPERSION RELATION
 66-DO-02 DOLLING, COWLEY GE/ SI/ DIAMOND/ GA,AS ..COHERENT INELASTIC SCATTERING STUDIES/ PHONON DISPERSION
 70-KO-03 KOROL GA,AS ..THEORY/ PHONON DISPERSION
 75-AL-02 ALTSHULER, VEKILOV+ SI/ GA,AS/ ZN,S ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL METH
4. 88 GALLIUM PHOSPHIDE GA,P
 68-YA-01 YARNELL, WARREN+ GA,P ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 68-YA-02 YARNELL, WARREN+ GA,P ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ 3-AXIS SPECTROMETER/ SHELL MODE
 71-BA-05 BANERJEE, VARSHNI ZN,S/ GA,P/ SI,C ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMPERATURE
4. 89 GALLIUM SESOISELENIDE GA2,SE3
 75-FI-03 FINKMAN, TAUC+ IN2,TE3/ GA2,SE3/ GA2,S3 ..INFRARED, RAMAN SPECTRA/ DEFECT STRUCTURE/ DISPERSION CURVES
4. 90 GALLIUM SESOISULFIDE GA2,S3
 75-FI-03 FINKMAN, TAUC+ IN2,TE3/ GA2,SE3/ GA2,S3 ..INFRARED, RAMAN SPECTRA/ DEFECT STRUCTURE/ DISPERSION CURVES
4. 91 GERMANIUM TETRABROMIDE GE,BR4
 71-EG-02 EGELSTAFF, PAGE+ C,CL4/ GE,BR4 ..EXPERIMENT/ MOLECULAR LIQUID DYNAMICS

4. 92 HAFNIUM CARBIDE HF.C
- 70-SM-01 SMITH, GLAESER TA,C/ HF.C ..EXPERIMENT/ DISPERSION RELATION
 71-SM-01 SMITH, GLAESER TA,C/ HF.C/ NB.C ..EXPERIMENT/ PHONON DISPERSION/ SUPERCONDUCTIVITY
 72-MO-02 MOSTOLLER U,C/ HF.C/ TA,C/ NB.C ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL APPROACH
 73-WE-01 WEBER TI,C/ ZR,C/ HF.C ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..SUPERCONDUCTOR/ ST
 75-VE-01 VERMA, GUPTA TA,C/ HF.C ..THEORY/ DISPERSION RELATION/ SOLID ..THREE-BODY-FORCE SHELL MODEL/ LONG-RANGE IO
4. 93 HEAVY WATER D2.O
- 55-JA-01 JACROT, NETTER+ GRAPHITE/ H2.O/ D2.O ..EXPERIMENT/ LIQUID/ SOLID
 58-BR-02 BROCKHOUSE H2.O/ D2.O ..EXPERIMENT
 59-BR-04 BROCKHOUSE H2.O/ D2.O ..SCATTERING LAW/ EXPERIMENT ..QUASI ELASTIC SCATTERING/ ICE, 6DC, 24.5DC, 42DC, 60D
 60-LA-01 LARSSON, HOLMRYD+ H2.O/ D2.O ..EXPERIMENT/ FREQUENCY DISTRIBUTION ..LIQUID DYNAMICS
 61-EG-01 EGELSTAFF, COCKING+ H2.O/ D2.O/ PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION
 61-GI-01 GISSLER, REINSCH+ D2.O ..EXPERIMENT/ THEORY/ SIGMA(E) ..4DK/ 77DK
 61-LA-01 LARSSON, HOLMRYD+ H2.O/ D2.O ..EXPERIMENT
 61-MI-01 MIKKE H2.O/ D2.O ..EXPERIMENT
 61-WH-01 WHITTEMORE, MCREYNOLDS H2.O/ D2.O ..EXPERIMENT
 61-WO-01 WOODS, BROCKHOUSE+ GRAPHITE/ H2.O/ D2.O/ ZR-H/ LI,H/ NA,H/ N,H4,CL ..EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE
 62-BR-02 BRUGGER METHANE/ H2.O/ D2.O/ PROPANE ..THEORY/ EXPERIMENT/ SCATTERING FUNCTION
 62-BR-04 BRUGGER BE/ BE.O/ GRAPHITE/ H2.O/ D2.O/ METHANE/ PROPANE/ TERPHENYL/ COMPIATIONS ..SCATTERING FUNCTION
 62-EG-02 EGELSTAFF GRAPHITE/ H2.O/ D2.O/ COMPIATIONS ..SCATTERING LAW ..24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR
 62-EG-04 EGELSTAFF H2.O/ D2.O/ GRAPHITE/ BE ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY ..EVALUATION
 62-HA-01 HAYWOOD, THORSON D2.O/ H2.O ..EXPERIMENT/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION ..20DC/ 150DC
 62-HO-01 HONECK D2.O ..SIGMA(E) ..CALCULATION
 62-LA-01 LARSSON, DAHLBORG H2.O/ D2.O ..EXPERIMENT/ LIQUID DYNAMICS ..10DC TO 95DC
 63-BU-01 BUTLER D2.O ..LIQUID/ THEORY/ SIGMA (E)
 63-BU-02 BUTLER D2.O ..LIQUID/ THEORY/ SCATTERING LAW
 63-GI-02 GISSLER D2.O ..THEORY/ EXPERIMENT/ SIGMA(E) ..4DK/ 77DK
 63-LA-01 LARSSON, DAHLBORG D2.O/ GLYCELINE/ H2.O ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION/ TOF ..278, 295, 368,
 64-DA-01 DAHLBORG, GROSSHOEG+ H2.O/ D2.O
 64-HA-01 HAYWOOD D2.O ..LIQUID/ EXPERIMENT/ SCATTERING LAW
 64-LA-01 LARSSON, DAHLBORG H2.O/ D2.O/ PENTANE/ GLYCELINE ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION
 64-NA-03 MATESCU, TEUTSH+ D2.O ..LIQUID/ SOLID/ EXPERIMENT/ FREQUENCY DISTRIBUTION / SIGMA (E,E-PRIME,THETA)/ DIFF
 64-SP-01 SPRINGER, HOFMYER+ H2.O/ D2.O/ PHENYL/ ZR-H ..EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER ..AVE-MU
 64-ST-01 STEHN, GOLDBERG+ H/ D/ H2.O/ D2.O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPIATIONS ..S
 64-TE-01 TEUTSCH, MATEESCU+ H2.O/ D2.O ..LIQUID/ EXPERIMENT/ NEUTRON SCATTERING
 65-BE-01 BEYSTER, KOPPEL D2.O/ H2.O/ POLYETHYLENE/ BE ..THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION
 65-BE-02 BEYSTER, YOUNG H2.O/ D2.O/ ZR-H ..EXPERIMENT/ DIFFUSION PARAMETER ..AVE-MU
 65-KO-01 KOPPEL, YOUNG D2.O ..LIQUID/ THEORY/ SIGMA (E)/ SIGMA (THETA,E)/ SCATTERING LAW/ NEUTRON SPECTRUM
 65-KO-02 KORNBICHLER D2.O/ ZR-H ..EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER
 65-YO-01 YOUNG, KOPPEL BE/ C/ H2.O/ D2.O/ C,H2/ H2/ D2 ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
 66-AN-03 ANTUNEZ, BEYSTER+ BE.O/ H2.O/ D2.O/ ZR-H ..EXPERIMENT/ THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
 66-BE-06 BEYSTER, NEILL+ H2.O/ D2.O/ ZR-H/ GRAPHITE/ BE.O ..NEUTRON SPECTRUM/ COMPIATION/ LIQUID/ GAS
 66-MC-02 MCMURRY D2.O ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY SPECTRUM / SIGMA(E)/ SIGMA-TRANSPORT(E)/ S
 66-SU-01 SUICH D2.O ..NEUTRON SPECTRUM
 66-WH-02 WHITTEMORE D2.O/ GRAPHITE ..EXPERIMENT/ SCATTERING FUNCTION ..24DC
 66-WO-01 WORDEN, PURCELL+ H2.O/ D2.O/ GRAPHITE ..NEUTRON SPECTRUM/ SIGMA(E,E-PRIME)
 67-GL-01 GLAESER REVIEW-ARTICLES/ H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATT
 67-KA-01 KADOTANI, IIJIMA D2.O ..THEORY/ PHONON SPECTRUM/ SCATTERING FUNCTION/ 295,423DK

67-MC-01 MCMURRY H2.O/ D2.O ..SIGMA(E-E-PRIME)/ COMPILATION
 67-WH-01 WHITTEMORE D2.O/ H/ GRAPHITE ..CROSS SECTION EVALUATION/ LIQUID/ SOLID/ EXPERIMENT/ SCATTERING FUNCTION
 68-GL-01 GLAESER H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..COMPILATION/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
 68-GL-02 GLAESER H2.O/ D2.O/ ZR-H/ GRAPHITE/ BE/ BE.O ..SCATTERING FUNCTION/ DIFFUSION PARAMETER/ COMPILATION
 68-HA-01 HARLING D2.O ..SCATTERING FUNCTION/ LIQUID/ FREQUENCY DISTRIBUTION/ EXPERIMENT ..ROOM TEMP.
 68-HA-02 HARLING H2.O/ D2.O ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION ..EPITHERMAL NEUTRONS
 68-HA-03 HARLING H2.O/ D2.O ..EXPERIMENT/ TOF/ DIFFERENTIAL CROSS SECTION/ SPECTRAL DENSITY ..299DK/ 268DK
 68-HA-06 HAYWOOD, PAGE H2.O/ D2.O ..EXPERIMENT/ SCATTERING FUNCTION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR
 68-PA-01 PAGE, HAYWOOD H2.O/ D2.O ..EXPERIMENT/ SCATTERING FUNCTION/ COMPILATION ..MIXTURE OF H2.O AND D2.O/ 0-0.13EV/
 68-PA-03 PAGE H2.O/ D2.O ..EXPERIMENT/ SCATTERING FUNCTION/ DIFFUSION COEFFICIENT
 68-PA-05 PARKS, PELLARIN+ H2.O/ D2.O ..EXPERIMENT/ DIFFUSION PARAMETER
 68-WH-02 WHITTEMORE D2.O ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID ..300DK/ INCIDENT NEUTRO
 69-BU-02 BUTLAND, CHUDLEY HEAVY WATER ..TOTAL CROSS SECTION/ DIFFUSION COEFFICIENT
 71-GH-01 GHEORGHE, RAPEANU+ D2.O ..SCATTERING LAW / COMPUTER CODE
 71-GO-02 GOTOH, TAKAHSHI H2.O/ D2.O ..FREQUENCY DISTRIBUTION/ SCATTERING LAW
 71-PA-01 PAGE, POWLES D2.O ..NEUTRON DIFFRACTION/ X-RAY/ STRUCTURE FACTOR/ MOLECULAR ORIENTATION
 71-RE-02 RENKAR D2.O ..EXPERIMENT/ ICE/ HEXAGONAL/ PHONON DISPERSION
 71-RE-03 RENKER D2.O ..LATTICE DYNAMICS/ SOLID/ THEORY/ EXPERIMENT/ BORN-VON KARMAN MODEL/ DISPERSION RELATION/
 72-LE-03 LEE, JONAS D2.O ..VISCOSITY/ DENSITY
 72-NA-05 NARTEN H2.O/ D2.O ..PAIR CORRELATION/ EXPERIMENT
 72-PO-04 POWLES, DORE+ H2.O/ D2.O ..EXPERIMENT/ STRUCTURE FACTOR/ H2.O-D2.O MIXTURE/ ISOTOPIC SUBSTITUTION
 72-PR-04 PRASK, TREVINO+ H2.O/ D2.O ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY RELATION/ DISPERSION RELATION
 72-SH-04 SHAWYER, DEAN H2.O/ D2.O ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..ICE/ DISORDERED SYSTE

- 4, 94 HEXAMMINECOBALT IODIDE CO.(N,H3)6,12
- 69-JA-02 JANIK, JAKOB+ CO.(N,H3)6,12/ NI.(N,H3)6,12 ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION
- 4, 95 HEXAMMINENICKEL IODIDE NI.(N,H3)6,12
- 69-JA-02 JANIK, JAKOB+ CO.(N,H3)6,12/ NI.(N,H3)6,12 ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION
- 4, 96 HOLMIUM ANTIMONIDE HO,SB
- 75-TA-03 TAUB, PARENTE MAGNETIC-SCATTERING/ HO,SB/ DY,SB ..EXPERIMENT/ CRITICAL SCATTERING
- 4, 97 HYDROGEN BROMIDE H,BR
- 65-80-04 BOUTIN, SAFFORD H.F/ H.CL/ H.BR ..EXPERIMENT/ LATTICE VIBRATION/ TOF SPECTRUM
- 4, 98 HYDROGEN CHLORIDE H,CL
- 65-80-04 BOUTIN, SAFFORD H.F/ H.CL/ H.BR ..EXPERIMENT/ LATTICE VIBRATION/ TOF SPECTRUM
 68-AG-01 AGRAWAL, YIP C.H4/ H.CL/ N.H3 ..GAS/ THEORY/ CORRELATION FUNCTION ..INCOHERENT/ INTERMEDIATE SCATTERING FU
 68-AG-03 AGRAWAL, YIP+ H.CL ..THEORY/ ROTATIONAL TIME CORRELATION FUNCTION
 68-O--01 O-REILLY C.CL4/ C.H,CL3/ C6,H5,CL/ H.F/ H,CL/ N,H3/ H2,O ..CORRELAION FUNCTION/ MOLECULAR ROTATIONS/ LIQU
 68-SU-03 SUMMEKFIELD, ZWEIFEL H.CL/ H.F ..SCATTERING THEORY

- 68-TR-02 TREVINO, PRASK+ H2.O/ H.CL ..THEORY/ LATTICE DYNAMICS ..HARMONIC SOLIDS
 71-LU-01 LURIE, CARPENTER H.CL ..EXPERIMENT/ THEORY/ GAS STATE/ SCATTERING SIGMA
 71-NI-07 NISHIGORI, SEKIYA NEUTRON-SCATTERING-IN-FLUIDS/ H.CL ..THEORY/ SCATTERING SIGMA/ GAS
 73-NI-03 NIIMURA, FUJII+ H.CL ..EXPERIMENT/ D.CL/ MOLECULAR LIBRATION/ MEAN SQUARE ANGULAR DISPLACEMENT
 74-GR-02 GROUT, LEECH H.CL ..DISPERSION-CURVES/ THEORY
 74-GU-02 GUSSONI, ZERBI H.CL ..THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..F-G MATRIX METHOD
 75-GR-02 GROUT, LEECH H.CL ..THEORY/ GROUP THEORETICAL/ LATTICE DYNAMICS
 75-HA-02 HARADA, FUJII+ H.CL ..EXPERIMENT/ SOLID/ DISPERSION RELATION/ BORN-VON-KARMAN MODEL/ TRIPLE-AXIS-SPECTROME
4. 99 HYDROGEN CYANIDE H.C.N
 72-RA-01 RAE H.C.N ..CALCULATION/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ PHASE CHANGE/ SOFT PHONON
 75-DI-02 DIETRICH, MACKENZIE+ H.C.N ..EXPERIMENT/ PHASE TRANSITION/ PHONON SOFTENING
- 4.100 HYDROGEN FLUORIDE H.F
 63-BO-02 BOUTIN, SAFFORD H.F/ K.H.F2/ K.H2.F3/ NA.H2.F3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
 65-BO-04 BOUTIN, SAFFORD H.F/ H.CL/ H.BR ..EXPERIMENT/ LATTICE VIBRATION/ TOF SPECTRUM
 67-KI-05 KITTELBERGER, HORNIG H.F ..EXPERIMENT/ LATTICE DYNAMICS ..INFRARED EXPERIMENT
 68-O--01 O'REILLY C.CL4/ C.H.CL3/ C6.H5.CL/ H.F/ H.CL/ N.H3/ H2.O ..CORRELATION FUNCTION/ MOLECULAR ROTATIONS/ LIQU
 68-SU-03 SUMMERFIELD, ZWEIFEL H.CL/ H.F ..SCATTERING THEORY
 69-AX-02 AXMANN, BIEM+ H.F ..EXPERIMENT/ CALCULATION/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRA
 69-RI-02 RING, EGELSTAFF H.F ..SCATTERING FUNCTION
- 4.101 HYDROGEN SULFIDE H2.S
 63-JA-02 JANIK, JANIK+ C.H4/ N.H3/ H2.S/ H2.O ..SIGMA(E)/ EXPERIMENT/ LIQUID
 63-RZ-01 RZANY, SCIESINSKI H2.S ..EXPERIMENT/ TOTAL CROSS SECTION
 65-ST-07 STRONG, HARKER+ AMMONIA/ HYDROGEN SULFIDE ..EXPERIMENT/ GAS/ CROSS SECTION EVALUATION ..MTR-PHASE-CHOPPER
- 4.102 HYDRONIUM NITRATE H3.O.N.O3
 68-JA-02 JANIK C.H4/ H2.O/ N.H3/ LI2.S.O4.H2.O/ H3.O.N.O3/ C.H3.I ..EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR
- 4.103 INDIUM ANTIMONIDE IN.SB
 71-PR-04 PRICE, ROWE+ SN/ IN.SB ..EXPERIMENT/ PHONON DISPERSION CURVE ..90DK FOR SN/ 300DK FOR IN.SB
 71-PR-05 PRICE, ROWE SN/ IN.SB ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL CALCULATION
 72-TA-03 TALWAR, AGRAWAL ZN.SE/ IN.SB ..THEORY/ PHONON DISPERSION
- 4.104 INDIUM PHOSPHIDE IN.P
 75-BO-02 BORCHERDS, ALFLEY+ IN.P ..SOLID/ EXPERIMENT/ DISPERSION RELATION
- 4.105 INDIUM TELLURIDE IN2.TE3

75-FI-03 FINKMAN, TAUC+ IN2,TE3/ GA2,SE3/ GA2,S3 ..INFRARED, RAMAN SPECTRA/ DEFECT STRUCTURE/ DISPERSION CURVES
 4,106 IRON BROMIDE FE,BR2
 75-YE-01 YELON, VETTIER FE,BR2 ..EXPERIMENT/ THEORY ..MAGNETIC SCATTERING/ SPIN WAVE SPECTRUM/ ANISOTROPY FIELD/ 2DK
 4,107 IRON CHLORIDE FE,CL2
 74-YE-01 YELON, SCHERM FE,CL2 ..EXPERIMENT/ PHONON DISPERSION
 4,108 IRON FLUORIDE FE,F2
 72-LO-01 LOVESEY FE,F2 ..THEORY
 72-RA-03 RAINFORD, HOUMANN+ FE,F2 ..EXPERIMENT/ PHONON AND MAGNON DISPERSION/ MAGNON-PHONON INTERACTION
 4,109 IRON HYDROGEN CARBONYL H2,FE,(C,O)4
 72-WH-03 WHITE, WRIGHT H.CO,(C,O)4/ H2,FE,(C,O)4/ H,MN,(C,O)5/ K,H,FE,(C,O)4/ H3,MN3,(C,O)12/ CS,H,FE3,(C,O)11 ..EX
 4,110 IRON SESQUIOXIDE FE2,O3
 70-AL-03 ALIKHANOV, DIMITRIJEVIC+ FE2,O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
 70-SA-03 SAMUELSEN, SHIRANE FE2,O3 ..EXPERIMENT/ SPIN WAVE DISPERSION/ 240, 290DK/ PARAMETE FITTING/ MAGNON DENSITY
 4,111 KCP K2,PT,(C,N)4,BR0,3
 75-LY-01 LYNN, IIZUMI+ KCP ..EXPERIMENT/ SOLID/ KOHN EFFECT/ DISPERSION RELATION ..TRIPLE AXIS TECHNIQUE/ ONE-DIME
 4,112 LANTHANUM ALUMINATE LA,AL,O3
 69-AX-01 AXE, SHIRANE+ LA,AL,O3 ..EXPERIMENT/ PHONON DISPERSION/ PHASE TRANSITION/ PHONON INSTABILITY
 4,113 LANTHANUM CHLORIDE LA,CL3
 65-CA-01 CASPERS, MURPHY+ LA,CL3 ..LATTICE DYNAMICS
 69-SA-03 SAFFORD, LEUNG+ H2,O/ LA,CL3/ CS,I/ CS,CL/ K,I/ K,BR/ K,CL/ NA,CL ..EXPERIMENT/ TOF SPECTRA/ INTERMOLECULA
 4,114 LANTHANUM TRIFLUORIDE LA,F3
 68-RA-07 RAST, CASPERS+ LA,F3 ..EXPERIMENT ..4,2DK/ 77DK/ 373DK/ INFRARED REFLECTION/ KRAMERS-KRONIG METHOD

4.115 LEAD FLUORIDE PB.F2
 70-DE-03 DENHAM, FIELD+ CA.F2/ SR.F2/ BA.F2/ CD.F2/ PB.F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION

4.116 LEAD METATITANATE PB.TI.O3
 66-SO-01 SOLOVEV, KUKHTO+ SR.TI.O3/ BA.TI.O3/ PB.TI.O3 ..EXPERIMENT/ LATTICE VIBRATION ..POLYCRYSTAL/ ROOM TEMP/ 47
 70-SH-07 SHIRANE, AXE PB.TI.O3 ..EXPERIMENT/ DISPERSION RELATION/ FERROELECTRICITY

4.117 LEAD SELENIDE PB.SE
 74-BU-01 BURKHARD, GEICK+ PB.SE ..EXPERIMENT ..KRAMERS-KRONIG ANALYSIS/ PHONON-PLASMON INTERACTION

4.118 LEAD SULFIDE PB.S
 67-EL-02 ELCOMBE PB.S ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ MODEL FITTING/ FREQUENCY SPECTRUM

4.119 LEAD TELLURIDE PB.TE
 66-CO-01 COCHRAN, COWLEY+ PB.TE ..EXPERIMENT/ MODEL CALCULATION/ PHONON DISPERSION/ FREQUENCY SPECTRA/ SPECIFIC HEA
 72-AL-04 ALPENIN, PICANT+ PB.TE ..EXPERIMENT/ DISPERSION RELATION/ SOFT PHONON/ CURIE LAW/ TEMPERATURE CHANGE

4.120 LEAD ZIRCONATE PB.ZR.O3
 70-ZE-01 ZEIN, ZINENKO+ SR.TI.O3/ PB.ZR.O3 ..THEORY/ LATTICE DYNAMICS/ FERROELECTRICITY/ PHASE TRANSITION

4.121 LIGHT WATER H2.O
 40-DA-01 DARLING, DENNISON H2.O ..THEORY/ MOLECULAR DYNAMICS
 41-SA-01 SACHS, TELLER NEUTRON-SCATTERING-IN-FLUIDS/ H2/ C.H4/ N.H3/ H2.O ..SCATTERING THEORY ..MOLECULAR GASES
 54-FO-01 FORSLIND H2.O ..THEORY/ SOLID/ BORN-VON KARMAN MODEL/ CENTRAL FORCE MODEL/ DISPERSION RELATION/ HARMONIC
 55-JA-01 JACKOT, NEITER+ GRAPHITE/ H2.O/ D2.O ..EXPERIMENT/ LIQUID/ SOLID
 57-KR-01 KRIEGER, NELKIN NEUTRON-SCATTERING-IN-FLUIDS/ C.H2/ H2.O ..SCATTERING THEORY ..MOLECULE
 58-BR-02 BROCKHOUSE H2.O/ D2.O ..EXPERIMENT
 58-MC-01 MCREYNOLS, NELKIN+ H2.O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE ..EXPERIMENT/ THEORY/ LIQUID/ SOLID
 59-BR-04 BROCKHOUSE H2.O/ D2.O ..SCATTERING LAW/ EXPERIMENT ..QUASI ELASTIC SCATTERING/ ICE, 6DC, 24.5DC, 42DC, 60D
 59-HU-01 HUGHES, PALEVSKY+ H2.O ..LIQUID/ EXPERIMENT ..BE-FILTER-TOF
 60-CR-01 CRIBIER, JACROT H2.O ..EXPERIMENT/ LIQUID/ DISPERSION RELATION/ DIFFUSION PARAMETER
 60-HU-01 HUGHES, PALEVSKY+ H2.O ..SIGMA(E, E-PRIME, THETA)
 60-KH-01 KHUBCHANDARI, RAHMAN H2.O ..THEORY/ ELASTIC SCATTERING CROSS SECTION ..RIGID ASYMMETRIC ROTOR MODEL
 60-LA-01 LARSSON, HOLMRYD+ H2.O/ D2.O ..EXPERIMENT/ FREQUENCY DISTRIBUTION ..LIQUID DYNAMICS
 60-NE-02 NELKIN NEUTRON-SCATTERING-IN-FLUIDS/ H2.O ..THEORY/ MOLECULAR DYNAMICS ..DIFFERENTIAL AND TOTAL CROSS
 60-SI-01 SINGWI, SJOELANDER H2.O ..THEORY/ MOLECULAR DYNAMICS ..LIQUID DYNAMICS/ QUASI-CRYSTALLINE MODEL
 61-BR-03 BRUGGER ZR-H/ H2.O/ BENZENE/ PARAFFINE/ ALCOHOL ..SIGMA(E, E-PRIME, THETA)/ EXPERIMENT/ LIQUIDS/ TOF
 61-CR-02 CRIBIER, JACROT H2.O ..EXPERIMENT ..QUASI ELASTIC SCATTERING/ 27DC/ 43DC
 61-EG-01 ESELSTAFF, COCKING+ H2.O/ D2.O/ PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION

61-HE-01 HEINLOTH, SPRINGER H2.O ..SIGMA(E)/ EXPERIMENT ..150DC--+200DC
 61-HE-02 HEINLOTH H2.O/ C6.H6/ C.H2.O2 ..SIGMA(E)/ EXPERIMENT/ GAS/ LIQUID/ SOLID/ KRIEGER-NELKIN MODEL ..TRANSMI
 61-LA-01 LARSSON, HOLMRYD+ H2.O/ D2.O ..EXPERIMENT
 61-MI-01 MIKKE H2.O/ D2.O ..EXPERIMENT
 61-PA-01 PALEVSKY H2.O/ PB/ SN ..EXPERIMENT/ LIQUID ..ROOM TEMP.. 45DC FOR H2.O/ 462DC FOR PB/ 350DC FOR SN/ BE-F
 61-SP-01 SPRINGER H2.O ..THEORY/ EXPERIMENT/ SOLID/ LIQUID/ GAS/ SIGMA (E)/ SIGMA (THETA)/ FREQUENCY SPECTRUM
 61-SP-02 SPRINGER, WIEDMAN H2.O ..EXPERIMENT/ SIGMA(E) ..ICE
 61-ST-01 STILLER, DANNER H2.O ..EXPERIMENT/ SIGMA(THETA,E)
 61-WH-01 WHITTEMORE, MCREYNOLDS H2.O/ D2.O ..EXPERIMENT
 61-WO-01 WOODS, BROCKHOUSE+ GRAPHITE/ H2.O/ D2.O/ ZR-H/ LI.H/ NA,H/ N.H4.CL ..EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE
 62-BR-02 BRUGGER METHANE/ H2.O/ D2.O/ PROPANE ..THEORY/ EXPERIMENT/ SCATTERING FUNCTION
 62-BR-04 BRUGGER BE/ BE,O/ GRAPHITE/ H2.O/ D2.O/ METHANE/ PROPANE/ TERPHENYL/ COMPLICATIONS ..SCATTERING FUNCTION
 62-EG-01 EGELSTAFF NEUTRON-SCATTERING-IN-FLUIDS/ H2.O ..THEORY/ LIQUID ..LIQUID DYNAMICS
 62-EG-02 EGELSTAFF GRAPHITE/ H2.O/ D2.O/ COMPILATIONS ..SCATTERING LAW ..24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR
 62-EG-03 EGELSTAFF, SCHOFIELD SCATTERING-THEORIES/ H2.O/ PB ..EXPERIMENT/ THEORY/ LIQUID/ DIFFUSION PARAMETER ..ROO
 62-EG-04 EGELSTAFF H2.O/ D2.O/ GRAPHITE/ BE ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY ..EVALUATION
 62-GO-01 GOESSMAN H2.O ..THEORY/ CROSS SECTION EVALUATION
 62-HA-01 HAYWOOD, THORSON D2.O/ H2.O ..EXPERIMENT/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION ..20DC/ 150DC
 62-LA-01 LARSSON, DAHLBORG H2.O/ D2.O ..EXPERIMENT/ LIQUID DYNAMICS ..10DC TO 95DC
 62-LA-02 LARSSON, SINGWI H2.O ..LIQUID/ DIFFUSIVE MOTION/ THEORY
 62-LI-02 LINDENMETER H2.O ..THEORY/ CROSS SECTION EVALUATION
 62-NE-01 NEMETHY, SCHRAGA H2.O ..THEORY/ MOLECULAR DYNAMICS ..LIQUID DYNAMICS
 62-RO-01 ROSENBAUM, ZWEIFEL H2.O ..THEORY ..DIFFERENTIAL SCATTERING CROSS SECTION/ 295DK
 62-SA-01 SAKAMOTO, BROCKHOUSE+ H2.O ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..25DC/ 75DC/ QUESI-ELASTIC SCATTERIN
 62-SC-02 SCHOFIELD H2.O/ GRAPHITE ..THEORY/ COMPILATION
 63-BA-01 BAJORIK, GOLIKOV+ H2.O
 63-BR-02 BROCKHOUSE, BERGSM+ SN/ H2.O/ AR/ HE ..EXPERIMENT/ LIQUID
 63-EG-01 EGELSTAFF, HAYWOOD+ H2.O ..EXPERIMENT ..150DC, 295DK, 425DK
 63-GO-02 GOLDMAN, FEDERIGHI H2.O/ POLYETHYLENE ..CROSS SECTION EVALUATION
 63-JA-02 JANIK, JANIK+ C.H4/ N.H3/ H2.S/ H2.O ..SIGMA(E)/ EXPERIMENT/ LIQUID
 63-KO-02 KOTTWITZ, LEONARD-JR+ H2.O ..EXPERIMENT/ LIQUIDS ..22DC
 63-KO-03 KOTTWITZ, LEONARD-JR H2.O ..EXPERIMENT/ FREQUENCY DISTRIBUTION
 63-LA-01 LARSSON, DAHLBORG D2.O/ GLYCELINE/ H2.O ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION/ TOF ..278, 295, 368,
 63-LI-01 LINDENMEIER, MATSUMOTO+ H2.O/ POLYETHYLENE/ COMPUTER-CODES ..SCATTERING THEORY/ LIQUID/ SIGMA(E-E-PRIME,TH
 63-SI-03 SINGWI, SJOELANDER+ NEUTRON-SCATTERING-IN-FLUIDS/ H2.O/ PB ..THEORY/ LIQUID/ FREQUENCY DISTRIBUTION/ SCATT
 63-YI-01 YIP, OSBORN H2.O ..THEORY/ MOLECULAR DYNAMICS/ SIGMA(E-E-PRIME,THETA)
 63-YI-02 YIP, OSBORN H2.O ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..SMALL ENERGY TRANSFER REGION
 64-BO-02 BOUTIN, PRASK H2.O/ WATER-SILICA/ WATER-ALUMINA/ AL.CL3 ..EXPERIMENT/ MOLECULAR DYNAMICS ..H2.O VAPOR ADSO
 64-DA-01 DAHLBORG, GROSSHOEG+ H2.O/ D2.O
 64-KO-02 KOPPEL, YOUNG H2.O ..THEORY/ MOLECULAR DYNAMICS ..SCATTERING KERNEL/ ANISOTROPIC MODEL
 64-LA-01 LARSSON, DAHLBORG H2.O/ D2.O/ PENTANE/ GLYCELINE ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION
 64-MC-01 MCMURRY, GANNON COMPUTER-CODES/ H2.O ..THEORY/ SCATTERING LAW/ SIGMA(E)/ SIGMA(E-E-PRIME)/ SIGMA-TRANSPORT
 64-MO-01 MOSTOVOY, DIKAREV+ H2.O/ BIPHENYL ..FREQUENCY SPECTRUM/ EXPERIMENT
 64-PA-01 PAGE H2.O ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..550DK/ 1200 PSI
 64-SP-01 SPRINGER, HOFMYER+ H2.O/ D2.O/ PHENYL/ ZR-H ..EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER ..AVE-MU
 64-ST-01 STEHN, GOLDBERG+ H/ D/ H2.O/ D2.O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPILATIONS ..S
 64-TE-01 TEUTSCH, MATEESCU+ H2.O/ D2.O ..LIQUID/ EXPERIMENT/ NEUTRON SCATTERING
 64-YO-03 YOUNG, HUFFMAN H2.O ..EXPERIMENT/ LIQUID/ NEUTRON SPECTRUM/ THEORY
 65-BE-01 BEYSTER, KOPPEL D2.O/ H2.O/ POLYETHYLENE/ BE ..THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION
 65-BE-02 BEYSTER, YOUNG+ H2.O/ D2.O/ ZR-H ..EXPERIMENT/ DIFFUSION PARAMETER ..AVE-MU
 65-BO-05 BOUTIN, PRASK+ H2.O ..TOF
 65-GL-03 GLAESER, EHRET+ C6.H6/ H2.O/ ZR-H ..SCATTERING LAW/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID ..20DC FOR

65-GO-01 GOLIKOV, ZHOKORSKJA+ C2, H6, O2/ H2, O/ C2, H4, O2/ C6, H6 ..EXPERIMENT/ LIQUID/ SOLID
65-JA-01 JANIK H2, O ..SOLID/ LIQUID/ FREQUENCY DISTRIBUTION/ SIGMA(E, E-PRIME, THETA)
65-LE-02 LEMMEL H2, O ..EXPERIMENT/ LIQUID/ DISPERSION PARAMETER/ SIGMA(THETA, E)
65-PA-02 PALEVSKY PB/ H2, O/ SN ..EXPERIMENT/ LIQUID
65-PO-01 POPE, NATION H2, O ..SCATTERING LAW/ CORRELATION FUNCTION
65-TU-01 TURCHIN H2, O ..LIQUID/ SOLID/ SCATTERING LAW/ FREQUENCY DISTRIBUTION NG LAW/ FREQUENCY DISTRIBUTION
65-YO-01 YOUNG, KOPPEL BE/ C/ H2, O/ D2, O/ C, H2/ H2/ D2 ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
66-AN-03 ANTUNEZ, BEYSTER+ BE, O/ H2, O/ D2, O/ ZR-H ..EXPERIMENT/ THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
66-BE-05 BEYSTER, CARRIVEAN H2, O ..LIQUID/ THEORY/ EXPERIMENT/ SIGMA (THETA, E) ..MULTIPLE SCATTERING CORRECTION
66-BE-06 BEYSTER, NEILL+ H2, O/ D2, O/ ZR-H/ GRAPHITE/ BE, O ..NEUTRON SPECTRUM/ COMPILATION/ LIQUID/ GAS
66-HA-02 HARLING H2, O ..EXPERIMENT/ SIGMA (E, E-PRIME, THETA)/ LIQUID
66-HA-03 HARLING H2, O ..LIQUID/ EXPERIMENT/ SCATTERING LAW ..ROOM TEMP.
66-KI-01 KIROUAC, MOORE+ H2, O/ POLYETHYLENE ..EXPERIMENT/ DOUBLE DIFFERENTIAL CROSS SECTION
66-KI-02 KIROUAC, MOORE+ H2, O ..SCATTERING LAW/ SIGMA (E, E-PRIME, THETA)/ EXPERIMENT ..300DK
66-KO-01 KOPPEL POLYETHYLENE/ ZR-H/ H2, O ..SCATTERING FUNCTION/ SCATTERING CROSS SECTION/ NEUTRON SPECTRUM
66-KO-04 KOPPEL H2, O/ POLYETHYLENE/ ZR-H/ H ..CROSS SECTION EVALUATION/ SCATTERING FUNCTION/ THEORY/ LIQUID/ SO
66-MC-01 MCMURRY, RUSSELL+ H2, O ..EXPERIMENT
66-MC-03 MCMURRY H2, O ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ SIGMA(E)/ SCATTERING LAW ..4
66-PE-01 PELAH, IMRY H2, O ..THEORY
66-PR-01 PRASK, BOUTIN H2, O ..EXPERIMENT/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION ..H2, O MOLECULES IN CRYSTA
66-RU-04 RUSH, LEUNG+ H2, O ..INELASTIC SCATTERING SPECTRA
66-SZ-01 SZKATULA, FULINSKI H2, O ..LIQUID/ MOLECULAR DYNAMICS
66-WO-01 WORDEN, PURCELL+ H2, O/ D2, O/ GRAPHITE ..NEUTRON SPECTRUM/ SIGMA(E, E-PRIME)
67-BI-01 BISCHOFF, BRYANT+ POLYETHYLENE/ H2, O/ ZR-H/ NB-H/ U, O2 ..EXPERIMENT
67-GL-01 GLAESER REVIEW-ARTICLES/ H2, O/ ZR-H/ GRAPHITE/ D2, O/ BE/ BE, O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATT
67-GO-01 GOLAND, OTNES H2, O ..EXPERIMENT/ LIQUID ..QUASI-ELASTIC SCATTERING
67-HA-03 HAYWOOD H2, O ..CROSS SECTION EVALUATION/ LIQUID/ THEORY/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION/ S
67-IB-01 IBARRA-JR, SHER H2, O ..EXPERIMENT/ NEUTRON SPECTRUM ..20DC
67-KI-01 KIROUAC H2, O ..LIQUID/ SCATTERING FUNCTION
67-MC-01 MCMURRY H2, O/ D2, O ..SIGMA(E, E-PRIME)/ COMPILATION
67-NA-01 NAKAHARA, KATO BE/ H2, O/ COMPUTER-CODES ..SOLID/ THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
67-SK-01 SKOELD, KARLEN+ H2, O ..EXPERIMENT
67-SA-02 SAMOSVAT, SAYASON+ H2, O ..EXPERIMENT
67-SM-02 SMITH H2, O ..EXPERIMENT/ H2, O ..MOLECULAR DYNAMICS/ SOLID/ EXPERIMENT/ FREQUENCY SPECTRUM
67-SZ-01 SZKATULA, FULINSKI H2, O ..EXPERIMENT/ SCATTERING FUNCTION ..95DC/ TRIPLE AXIS SPECTROMETER
68-AR-03 ARDENTE, GALLS H2, O ..THEORY/ LIQUID/ FREQUENCY DISTRIBUTION
68-BA-02 BAJOREK, JANIK+ H2, O ..SIGMA (E)/ NEUTRON SPECTRUM/ THEORY ..MODIFIED NELKIN MODEL
68-BE-02 BEYSTER H2, O ..EXPERIMENT/ MOLECULAR DYNAMICS ..WATER IN CRYSTAL
68-BR-03 BRUGGER H2, O ..LIQUID/ EXPERIMENT
68-BR-04 BRUGGER, PLUMMER H2, O ..SCATTERING FUNCTION/ EXPERIMENT/ LIQUID ..TOF/ 16DC
68-BU-03 BURGMAN, SCIESINSKI+ H2, O ..EXPERIMENT/ SCATTERING FUNCTION
68-DA-05 DAUBERT, JEX+ H2, O ..SOLID/ EXPERIMENT/ SIGMA (E)
68-ES-01 ESCH, MOORE+ H2, O ..LIQUID/ EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION
68-FA-01 FAURE, KAHANE H2, O ..FREQUENCY DISTRIBUTION/ DISPERSION RELATION/ LATTICE DYNAMICS/ THEORY/ SOLID
68-GI-01 GIBBS, LINDEMETER H2, O ..SCATTERING THEORY/ LIQUID
68-GL-01 GLAESER H2, O/ ZR-H/ GRAPHITE/ D2, O/ BE/ BE, O ..COMPILATION/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI
68-GL-02 GLAESER H2, O/ D2, O/ ZR-H/ GRAPHITE/ BE/ BE, O ..SCATTERING FUNCTION/ DIFFUSION PARAMETER/ COMPILATION
68-HA-02 HARLING H2, O/ D2, O ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION ..EPITHERMAL NEUTRONS
68-HA-03 HARLING H2, O/ D2, O ..EXPERIMENT/ TOF/ DIFFERENTIAL CROSS SECTION/ SPECTRAL DENSITY ..299DK/ 268DK
68-HA-06 HAYWOOD, PAGE H2, O/ D2, O ..EXPERIMENT/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION
68-JA-02 JANIK C, H4/ H2, O/ N, H3/ LI2, S, O4, H2, O/ H3, O, N, O3/ C, H3, I ..EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR
68-JA-04 JARVIS H2, O ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY

68-KI-01 KIROUAC, MOORE+ H2.0 ..SCATTERING FUNCTION/ EXPERIMENT ..300DK
 68-NA-01 NAKAHARA H2.0 ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYNAMICS
 68-NE-01 NEIL, RUSSEL-JR+ H2.0 ..EXPERIMENT/ LIQUID/ TOTAL CROSS SECTION ..23DC/ LINAC
 68-PA-01 PAGE, HAYWOOD H2.0/ D2.0/ GRAPHITE/ BE/ BE.0 ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR
 68-PA-03 PAGE H2.0/ D2.0 ..EXPERIMENT/ SCATTERING FUNCTION/ COMPILATION ..MIXTURE OF H2.0 AND D2.0/ 0-0.13EV/
 68-PA-05 PARKS, PELLARIN+ H2.0/ D2.0 ..EXPERIMENT/ DIFFUSION PARAMETER
 68-PR-01 PRASK, BOUTIN+ H2.0 ..SOLID/ EXPERIMENT/ THEORY/ FREQUENCY DISTRIBUTION ..COLD NEUTRON TOF/ 150DK
 68-RO-01 ROSS, SZABO+ BENZENE/ H2.0 ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID ..20DC FOR BE
 68-SA-03 SAMOSVAT, SAYASOV+ H2.0 ..EXPERIMENT/ MOLECULAR DYNAMICS/ TOF ..RESONANT-DETECTOR METHOD
 68-SL-02 SLAGGIE H2.0/ ZR-H ..THEORY/ CROSS SECTION EVALUATION
 68-TR-02 TRIVINO, PRASK+ H2.0/ H.CL ..THEORY/ LATTICE DYNAMICS ..HARMONIC SOLIDS
 69-ES-01 ESCH, YEATER+ H2.0 ..EXPERIMENT/ DOUBLE DIFFERENTIAL SCATTERING CROSS SECTION/ 27,170,270DC/ LINAC TOF
 69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.0/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC
 69-HA-04 HARIDASAN, GOVINDARAJAN H2.0 ..THEORY/ PHONON SPECTRA/ ICE
 69-HA-05 HARLING H2.0 ..SCATTERING LAW/ FREQUENCY DISTRIBUTION
 69-KO-01 KOSALY, VALKO H2.0 ..THEORY/ CROSS SECTION EVALUATION
 69-PR-03 PRASK, BOUTIN+ H2.0 ..ICE/ MOLECULAR VIBRATION
 69-RE-01 REICHEL, MAIER H2.0 ..CALCULATION/ SINGLE DIFFERENTIAL CROSS SECTION
 69-RE-02 RENKER H2.0 ..PHONON DISPERSION/ D2.0
 69-SA-02 SAFFORD, LEUNG+ H2.0 ..IN IONIC SOLUTION/ EXPERIMENT/ TOF SPECTRUM ..ION-WATER INTERACTION
 69-SA-03 SAFFORD, LEUNG+ H2.0/ LA.CL3/ CS.I/ CS.CL/ K.I/ K.BR/ K.CL/ NA.CL ..EXPERIMENT/ TOF SPECTRA/ INTERMOLECULA
 69-SH-04 SHAWYER, DEAN H2.0 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA
 70-BA-05 BATES, LIPPINCOTT+ H2.0 ..MOLECULAR VIBRATIONS
 70-BU-03 BUTLAND, CHUDLEY H2.0 ..INTEGRAL DATA/ NEUTRON DIFFUSION COEFFICIENT/ TOTAL SIGMA/ EFFECTIVE WIDTH MODEL/
 70-CL-01 CLIFFORD H2.0 ..SCATTERING LAW/ LIQUID
 71-BI-02 BISCHOFF, MOORE+ H2.0 ..SCATTERING-THEORIES/ COMPUTER-CODES/ H2.0 ..MULTIPLE SCATTERING/ THEORY/ SIGMA(E, E-PRIME
 71-DA-01 DAY, SINCLAIR ZR-H/ H2.0/ C6.H7.N/ NA.N.H2 ..EXPERIMENT/ TOF SPECTRA/ PULSED NEUTRON SOURCE
 71-DA-02 DAY, SINCLAIR ZR-H/ H2.0/ SODAMIDE/ ANILINE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LINAC PULSED NEUTRON SOURCE
 71-ES-01 ESCH, YEATER+ H2.0 ..EXPERIMENT/ DIFFERENTIAL CROSS SECTION/ 27, 170, 270C/ LINAC
 71-GO-02 GOTOH, TAKAHASHI H2.0/ D2.0 ..FREQUENCY DISTRIBUTION/ SCATTERING LAW
 71-RA-01 RAHMAN, STILLINGER H2.0 ..COMPUTER SIMULATION/ CORRELATION FUNCTION/ SELF-DIFFUSION/ FREQUENCY SPECTRA
 72-BU-03 BUTLAND, CHUDLEY H2.0 ..SCATTERING MODEL CALCULATION/ INTEGRAL PARAMETER
 72-CH-01 CHAY, FRANK H2.0/ THEORY-OF-FLUIDS ..CORRELATION FUNCTION
 72-NA-05 NARTEN H2.0/ D2.0 ..PAIR CORRELATION/ EXPERIMENT
 72-PO-04 POWLES, DORE+ H2.0/ D2.0 ..EXPERIMENT/ STRUCTURE FACTOR/ H2.0-D2.0 MIXTURE/ ISOTOPIIC SUBSTITUTION
 72-PR-04 PRASK, TRIVINO+ H2.0/ D2.0 ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY RELATION/ DISPERSION RELATION
 72-SH-04 SHAWYER, DEAN H2.0/ D2.0 ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..ICE/ DISORDERED SYSTE
 73-HE-01 HERDADE, VINHAS+ POLYETHYLENE/ H2.0 ..EXPERIMENT/ SOLID/ LIQUID/ T-O-F/ SIGMA (E)
 74-DE-01 DENLEY, RICE H2.0 ..THEORY/ LIQUID WATER/ FREQUENCY SPECTRA
 74-ST-03 STILLINGER, RAHMAN H2.0 ..LIQUID/ PAIR CORRELATION FUNCTION/ MOLECULAR DYNAMICS ..COMPUTER EXPERIMENT
 74-WA-02 WATTS LIGHT WATER/ THEORY-OF-FLUIDS ..RADIAL-DISTRIBUTION-FUNCTION/ MONTE-CARLO

4,122 LITHIUM BROMIDE

LI,BR

73-MI-05 MITRA, SINGH LI,H/ NA,I/ LI,F/ LI,CL/ LI,BR/ K,F/ K,CL/ K,BR/ K,I/ RB,I ..THEORY/ LATTICE DYNAMICS/ FORCE
 74-RA-08 RASTOGI, HAWRANEK+ LI,BR/ LI,I/ LI,F/ LI,CL ..LATTICE DYNAMICS/ THEORY
 74-SI-03 SINGH LI,H/ LI,BR/ LI,I ..DISPERSION-CURVES/ DENSITY-OF-STATES

4,123 LITHIUM CHLORIDE

LI,CL

71-VE-01 VERMA, SINGH LI,H/ LI,F/ LI,CL ..THEORY/ PHONON DISPERSION/ STATE DENSITY
 73-MI-05 MITRA, SINGH LI,H/ NA,I/ LI,F/ LI,CL/ LI,CL/ K.F/ K.BR/ K.I/ RB.I ..THEORY/ LATTICE DYNAMICS/ FORCE
 74-RA-08 RASTOGI, HAWRANEK+ LI,BR/ LI,I/ LI,F/ LI,CL ..LATTICE DYNAMICS/ THEORY

4.124 LITHIUM FLUORIDE LI,F
 68-DO-01 DOLLING, SMITH+ LI,F ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..3-AXIS
 71-VE-01 VERMA, SINGH LI,H/ LI,F/ LI,CL ..THEORY/ PHONON DISPERSION/ STATE DENSITY
 72-BA-08 BASU, SENGUPTA LI,F ..CALCULATION/ DEFORMABLE SHELL MODEL/ PHONON DISPERSION/ STATE DENSITY/ ELASTIC CONST
 73-MI-05 MITRA, SINGH LI,H/ NA,I/ LI,F/ LI,CL/ LI,CL/ K.F/ K.BR/ K.I/ RB.I ..THEORY/ LATTICE DYNAMICS/ FORCE
 73-SA-03 SANGSTER MG,O/ NA,CL/ LI,F/ K.I ..INTERIONIC FORCE/ PHONON DISPERSION/ DEFORMABLE SHELL MODEL
 74-RA-08 RASTOGI, HAWRANEK+ LI,BR/ LI,I/ LI,F/ LI,CL ..LATTICE DYNAMICS/ THEORY

4.125 LITHIUM HYDRIDE LI,H
 61-WO-01 WOODS, BROCKHOUSE+ GRAPHITE/ H2,O/ D2,O/ ZR-H/ LI,H/ NA,H/ N.H4.CL ..EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE
 65-BR-02 BRODSKY, BURSTEIN LI,H ..THEORY/ SOLID/ LATTICE DYNAMICS
 65-ZE-01 ZEMLYANOV, BROVMAN+ LI,H ..THEORY/ BORN VON KARMAN MODEL/ SIGMA(E-E-PRIME,THETA)
 65-ZE-03 ZEMLYANOV, BROVMAN+ LI,H ..EXPERIMENT/ CALCULATION/ FREQUENCY DISTRIBUTION
 67-VE-02 VERBLE LI,H ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..CONST.-0/ ROOM TEMP./ LI-D CRYSTAL
 68-NE-03 NERBLE, WARREN+ LI,H ..FREQUENCY DISTRIBUTION/ DISPERSION RELATION/ LATTICE DYNAMICS/ EXPERIMENT ..ROOM TE
 68-VE-01 VERBLE, WARREN+ LI,H ..EXPERIMENT/ PHONON DISPERSION/ LI-D/ MODEL ANALYSIS/ FREQUENCY SPECTRUM
 70-WI-01 WILSON, JOHNSON LI,H ..THEORY/ PHONON DISPERSION
 71-VE-01 VERMA, SINGH LI,H/ LI,F/ LI,CL ..THEORY/ PHONON DISPERSION/ STATE DENSITY
 72-SI-07 SINGH LI,H ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
 73-MI-05 MITRA, SINGH LI,H/ NA,I/ LI,F/ LI,CL/ LI,CL/ K.F/ K.BR/ K.I/ RB.I ..THEORY/ LATTICE DYNAMICS/ FORCE
 74-SI-03 SINGH LI,H/ LI,BR/ LI,I ..DISPERSION-CURVES/ DENSITY-OF-STATES

4.126 LITHIUM HYDROXIDE LI,O,H
 65-PE-02 PELAH, KREBS+ CA,(O,H)2/ MG,(O,H)2/ LI,O,H ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
 66-SA-02 SAFFORD, LOSACCO LI,O,H ..EXPERIMENT/ TOF SPECTRUM/ MOLECULAR DYNAMICS

4.127 LITHIUM IODINE LI,I
 74-RA-08 RASTOGI, HAWRANEK+ LI,BR/ LI,I/ LI,F/ LI,CL ..LATTICE DYNAMICS/ THEORY
 74-SI-03 SINGH LI,H/ LI,BR/ LI,I ..DISPERSION-CURVES/ DENSITY-OF-STATES

4.128 LITHIUM NIOBATE LI,NB,O3
 71-DE-05 DEVINE, PECKHAM LI,NB,O3 ..THEORY/ GROUP THEORY/ INELASTIC NEUTRON SCATTERING
 74-RO-02 ROS, SAUNDERSON LI,NB,O3 ..DISPERSION RELATION/ INELASTIC NEUTRON SCATTERING

4.129 LITHIUM SULFATE MONOHYDRATE LI2,S,O4*H2,O
 69-TH-01 THAPER, SEQUEIRA+ K2,C2,O4*H2,O/ BA,(CL,O3)2*H2,O/ LI2,S,O4*H2,O/ CA,S,O4*2(H2,O)/ CU,CL2*2(H2,O)/ BE,S,O4

- 71-JA-02 JANIK, JANIK+ LI2.S.04*H2.O ..INELASTIC SCATTEING SPECTRA/ H2.O IN CRYSTAL
 72-MI-01 MIKULI, JANIK+ LI2.S.04*H2.O ..EXPERIMENT/ FREQUENCY SPECTRUM
- 4.130 LITHIUM SULFATE LI2.S.04.H2.O
 68-JA-02 JANIK C.H4/ H2.O/ N.H3/ LI2.S.04.H2.O/ H3.O.N.O3/ C.H3.I ..EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR
- 4.131 LITHIUM YTTRIUM TETRAFLUORIDE LI.Y.F4
 70-MI-01 MILLER, RAST+ LI.Y.F4 ..EXPERIMENT ..RAMAN SCATTERING
- 4.132 MAGNESIUM FLUORIDE MG.F2
 68-KA-02 KAHN, THOTIN+ MG.F2 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMICS/ DISPERKSION RELATION
 70-KA-04 KATIYAR MG.F2 ..THEORY/ LATTICE DYNAMICS
 74-AL-01 ALMAIRAC, BENOIT MG.F2 ..PHONON DISPERKSION/ EXPERIMENT/ SHELL MODEL CALCULATION
- 4.133 MAGNESIUM HYDROXIDE MG.(O.H)2
 63-SA-01 SAFFORD, BRAJOVIC+ MG.(O.H)2/ CA.(O.H)2 ..EXPERIMENT/ TOF SPECTRA/ MOLECUCAR DYNAMICS
 65-PE-02 PELAH, KREBS+ CA.(O.H)2/ MG.(O.H)2/ LI.O.H ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
- 4.134 MAGNESIUM LEAD MG2.PB
 72-WA-02 WAKABAYASHI, AHMAD+ MG2.PB ..EXPERIMENT/ PHONON DISPERKSION/ MODEL FITTING/ FREQUENCY SPECTRA
- 4.135 MAGNESIUM OXIDE MG.O
 65-PE-01 PECKHAM MG.O ..LATTICE DYNAMICS
 67-BU-01 BUCKLAND, SAUNDERSON MG.O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERKSION RELATION ..TRIPLE AXIS SPECTROMETER
 67-MA-02 MARTIN MG.O ..SOLID/ EXPERIMENT ..DEFECT SCATTERING/ SCATTERING THEORY
 67-PE-01 PECKHAM MG.O ..LATTICE DYNAMICS/ EXPERIMENT/ THEORY/ DISPERKSION RELATION/ FREQUENCY DISTRIBUTION ..ROOM
 67-RI-01 RIEDER, HOERL MG.O ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS ..SURFACE VIBRATION
 67-VE-05 VERMA, DAYAL MG.O ..THEORY/ PHONON DISPERKSION/ COMBINED DENSITY-OF-STATES
 68-BO-03 BORGONOVI, CARRIVEAU MG.O ..EXPERIMENT/ ANGULAR DISTRIBUTION/ SHELL MODEL CALCULATION
 68-MA-08 MARTIN MG.O ..EXPERIMENT/ THEORY/ SOLID ..DEFECT SCATTERING
 68-RI-04 RIEDER, HOERL MG.O ..EXPERIMENT/ PHONON SPECTRA/ SURFACE MODE
 70-SA-01 SABINE, SVENSON MG.O ..EXPERIMENT/ TOTAL SCATTERING SIGMA ..DEFECT CLUSTER SCATTERING
 70-SA-05 SANGSTER, PECKHAM+ MG.O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERKSION CURVES ..BREATHING SHELL MODEL/ FREQUEN
 71-CA-01 CALTIER, MONTANER MG.O/ CA.O/ SR.O/ BA.O ..THEORY/ PHONON DISPERKSION
 71-GI-02 GILLIS MG.O ..THEORY/ LATTICE VIBRATION
 72-GE-01 GENZEL, MARTIN MG.O ..THEORY/ FREQUENCY SPECTRA/ RIGID ION MODEL/ SMALL CRYSTAL
 72-SI-06 SINGH, UPADHYAYA MG.O ..THEORY/ SHELL MODEL/ PHONON DISPERKSION/ SPECIFIC HEAT
 73-SA-03 SANGSTER MG.O/ NA.CL/ LI.F/ K.I ..INTERIONIC FORCE/ PHONON DISPERKSION/ DEFORMABLE SHELL MODEL
 73-VE-02 VERMA, AGARWAL MG.O ..LATTICE OYAMILS/ DISPERKSION RELATION/ THEORY

- 4.136 MAGNESIUM STANIDE
 MG2·SN
 70-BE-04 BERGSMÄ MG2·SN/ ZN.S ..EXPERIMENT/ TRIPLE AXIS SPECTROMETER/ PHONON DISPERSION RELATION
 70-KE-01 KEARNEY, WORLTON+ MG2·SN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES ..ROOM TEMP./ 3-AXIS SPECTROMET
 70-KE-02 KEARNEY, WORLTON+ MG2·SN ..THEORY/ LATTICE DYNAMICS/ GROUP THEORETICAL TECHNIQUES
- 4.137 MAGNESIUM,ZINC2
 MG,ZN2
 72-ES-01 ESCHRIG, URWANK+ MG,ZN2 ..THEORY/ EXPERIMENT/ MODEL-POTENTIAL/ PHONON DISPERSION/ FREQUENCY DISTRIBUTION
 72-ES-02 ESCHRIG, FELDMANN+ MG,ZN2 ..CALCULATION/ MODEL POTENTIAL THEORY/ EXPERIMENT/ PHONON DENSITY
 72-ES-03 ESCHRIG, URWANK+ MG,ZN2 ..THEORY/ PHONON SPECTRA/ A,B2 TYPE INTERMETALLIC COMPOUNDS
 72-ES-04 ESCHRIG, URWANK+ MG,ZN2 ..THEORY
 73-ES-01 ESCHRIG, FELDMANN+ MG,ZN2 ..EXPERIMENT/ PHONON DENSITY/ COHERENT SCATTERER/ POWDER SAMPLE
- 4.138 MAGNETITE
 FE3·O4
 66-DI-02 DIMITRIJEVIC, KRASNICKI+ MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ DIFFUSE SCATTERING
 67-DI-01 DIMITRIJEVIC, KRASNICKI+ MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
 74-SA-03 SAMUELSEN, STEINSVOLL MAGNETITE ..EXPERIMENT/ INELASTIC NEUTRON SCATTERING/ DISPERSION RELATION ..SPINEL S
 75-FU-01 FUJII, SHIRANE+ MAGNETITE/ PHASE-TRANSITION ..EXPERIMENT/ 123DK TRANSITION/ CRITICAL SCATTERING/ VERWEY OR
 75-SH-01 SHIRANE, CHIKAZUMI+ MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ CHARGE ORDERING
- 4.139 MANGANESE FERRITE
 MN,FE2·O4
 74-SC-01 SCHEERLINCK, WEGENER+ MN,FE2·O4 ..DISPERSION-CURVES
 74-WE-02 WEGENER, SCHEERING+ MN,FE2·O4 ..EXPERIMENT/ TOP/ DISPERSION RELATION ..SPIN WAVE SPECTRUM
- 4.140 MANGANESE FLUORIDE
 MN,F2
 74-CR-01 CRAN, SANGSTER MN,F2 ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..SHELL MODEL
- 4.141 MANGANESE HYDROGEN CARBONYL (1)
 H.MN.(C.O)5
 72-WH-03 WHITE, WRIGHT H.CO.(C.O)4/ H2.FE.(C.O)4/ H.MN.(C.O)5/ K.H.FE.(C.O)4/ H3.MN3.(C.O)12/ CS.H.FE3.(C.O)11 ..EX
- 4.142 MANGANESE HYDROGEN CARBONYL (2)
 H3,MN3.(C.O)12
 72-WH-03 WHITE, WRIGHT H.CO.(C.O)4/ H2.FE.(C.O)4/ H.MN.(C.O)5/ K.H.FE.(C.O)4/ H3.MN3.(C.O)12/ CS.H.FE3.(C.O)11 ..EX
- 4.143 MANGANESE MONOXIDE
 MN,O
 69-HA-06 HAYWOOD, COLLINS MN,O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CONST..0/ RIGID-ION AND SHELL
 70-UP-01 UPADHYANA, SINGH MN,O ..THEORY/ DISPERSION RELATIONS
 71-HA-07 HAYWOOD, COLLINS MN,O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING

- 72-UP-03 UPADHYAYA, SINGH MN,O ..THEORY/ PHONON DISPERSION
 74-KO-02 KOHGI, ISHIKAWA+ MN,O/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION/ 4.2DK TO 117DK/ THEORY/ MAGNON
 74-SH-03 SHARMA MN,O ..DISPERSION-CURVES ..THEORY/ DEFORMATION-DIPOLE-MODEL
 74-UP-01 UPADHYAYA, SINGH MN,O/ CO,O/ NI,O ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS ..THREE-BODY FORCE SHELL
- 4.144 MOLYBDENUM DISULFIDE MO,S2
- 71-BR-03 BROMLEY MO,S2 ..THEORY/ PHONON DISPERSION
 75-WA-01 WAKABAYASHI, SMITH+ MO,S2 ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING
- 4.145 NICKEL CHLORIDE NI,CL2
- 75-LI-01 LINDGARD, BIRGENEAU+ NI,CL2/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON
- 4.146 NICKEL MONOSULFIDE NI,S
- 72-BR-02 BRIGGS, DUFFILL+ NI,S ..EXPERIMENT/ PHONON AND MAGNON DISPERSION
- 4.147 NICKEL OXIDE NI,O
- 74-UP-01 UPADHYAYA, SINGH MN,O/ CO,O/ NI,O ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS ..THREE-BODY FORCE SHELL
- 4.148 NIOBIUM CARBIDE NB,C
- 71-SM-01 SMITH, GLAESER TA,C/ HF,C/ NB,C ..EXPERIMENT/ PHONON DISPERSION/ SUPERCONDUCTIVITY
 72-MO-02 MOSTOLLER U,C/ HF,C/ TA,C/ NB,C ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL APPROACH
 72-SM-02 SMITH, WAKABAYASHI+ NB,C/ ZR,C/ TC/ ZR/ Y ..EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION
 73-WE-02 WEBER TI,C/ ZR,C/ V,C/ NB,C/ TA,C/ U,C ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION/ FREQU
- 4.149 NIOBIUM OXIDE NB,O2
- 74-SH-02 SHAPIRO, AXE+ NB,O2/ PHASE-TRANSITION ..CRITICAL SCATTERING DUE TO SOFT MODE
- 4.150 NIOBIUM TIN NB3,SN
- 71-SH-06 SHIRANE, AXE NB3,SN ..EXPERIMENT/ PHONON DISPERSION/ SOFT PHONON/ PHASE TRANSITION
 72-SH-02 SHAM NB3,SN/ THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
 73-AX-01 AXE, SHAPIRO+ NB3,SN/ SR,TI,03 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE
 73-AX-02 AXE, SHIRANE NB3,SN ..PHONON LINEWIDTHS
 73-AX-03 AXE, SHIRANE NB3,SN/ SUPERCONDUCTOR ..ACOUSTIC PHONON DISPERSION/ TEMPERATURE CHANGE/ CUBIC-TETRAGONAL PHA
 73-ME-01 MEIER NB3,SN/ SR,TI,03/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY ..SINGULAR WIDTH GAMMA/ QUASI-PARTIC
- 4.151 POTASSIUM ACID FLUORIDE K,H,F2

63-B0-02 BOUTIN, SAFFORD H.F/ K.H.F2/ K.H2.F3/ NA.H2.F3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
 70-CO-02 COLLINS, HAYWOOD+ K.H.F2/ CS.H.CL2/ NA.H.C.O3/ K.C2.CL3.O2/ K.C2.F3.O2 ..EXPERIMENT/ MOLECULAR DYNAMICS/ F
 72-RU-01 RUSH, SCHROEDER+ K.H.F2/ NA.H.F2 ..NEUTRON SPECTROSCOPY/ RAMAN, INFRARED SPECTROSCOPY
 72-SA-01 SAKAMOTO, IIZUMI+ K.H.F2/ (N.H4)2.S.O4/ POLYETHYLENE ..EXPERIMENT/ BE-FILTER-DETECTOR/ MOLECULAR DYNAMICS
 73-SM-02 SMITH, TEMME+ NA.H.F2/ K.H.F2/ CS.H.CL2/ CS.H.BR2 ..EXPERIMENT/ FREQUENCY SPECTRA/ TOF SPECTRA

4.152 POTASSIUM AMMONIUM CHLORIDE K.N.H4.CL

72-SM-01 SMITH, WAKABAYASHI+ K.N.H4.CL ..EXPERIMENT/ LOCALIZED PHONON

4.153 POTASSIUM AZIDE K.N3

69-GO-01 GOVINDARAJAN, HARIDASAN K.N3/ RB.N3/ CS.N3 ..THEORY/ LATTICE VIBRATION ..RIGID ION MODEL/ BODY CENTERED TE
 70-RA-04 RAO, TREVINO K.N3 ..THEORY/ LATTICE DYNAMICS/ GROUP-THEORETICAL ANALYSIS
 71-RA-04 RAO, TREVINO+ K.N3 ..EXPERIMENT/ PHONON DISPERSION/ RIGID-ION MODEL FITTING
 71-RA-05 RAO, TREVINO+ K.N3 ..EXPERIMENT/ PHONON DISPERSION/ RIGID ION MODEL CALCULATION

4.154 POTASSIUM BROMIDE K.BR

63-CO-03 COCHRAN, COWLEY+ K.BR/ NA.I ..THEORY/ PHONON DISPERSION
 63-WO-02 WOODS, BROCKHOUSE+ K.BR/ NA.I ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..90DK
 66-CO-03 COWLEY, COWLEY K.BR/ NA.I/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY/ PHONON DISPERSION
 68-BU-04 BUYERS, COWLEY K.BR/ RB.BR ..EXPERIMENT/ LATTICE DYNAMICS ..MIXED CRYSTAL
 68-BU-06 BUYERS, SMITH K.CL/ K.BR/ NA.I/ NA.CL/ NA.BR/ NA.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/
 68-CO-11 COWLEY, BUYERS+ K.BR/ SR.TI.O3 ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ ELASTIC CONSTANT ..NEUTRON MEASUREM
 68-CO-13 COWLEY, SVENSSON+ K.BR/ SR.TI.O3/ K.H2.P.O4 ..ELASTIC CONSTANT/ SOUND VELOCITY/ ANHARMONICITY
 68-SV-01 SVENSSON, BUYERS K.BR ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..3-AXIS-SPECTROMETER/ 95DK/ 463
 70-LO-02 LOWNDES K.BR ..ANHARMONICITY ..DIELECTRIC CONSTANT
 73-BA-03 BASU, SENGUPTA NA.CL/ NA.BR/ K.I/ K.CL/ K.BR ..THEORY/ DEFORMABL SHELL MODEL/ PHONON DISPERSION/ FREQUENCY
 75-BL-02 BLASCHKO, ERNST+ K.BR ..EXPERIMENT/ PHONON FREQUENCY SHIFT/PRESSURE EFFECT

4.155 POTASSIUM CHLORIDE K.CL

67-IV-01 IVERONOVA, PARANGTOPO+ K.CL/ K.I ..LATTICE DYNAMICS/ DISPERSION RELATION ..X-RAY EXPERIMENT
 67-ST-01 STARTSEV, BRAUD K.CL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..X-RAY EXPERIMENT
 68-BE-01 BENEDEK, NARDELLI NA.CL/ K.CL ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS
 68-BU-06 BUYERS, SMITH K.CL/ K.BR/ NA.I/ NA.CL/ NA.BR/ NA.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/
 69-CO-05 COPLEY, MACPHERSON+ K.CL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRA/ DEBYE TEMP./
 69-RA-03 RAUNJO, AUMOVIST K.CL ..EXPERIMENT/ PHONON DISPERSION RELATION/ 80, 300DK/ COMPARED WITH BREATHING SHELL M
 69-RA-04 RAUNJO NA.CL/ K.CL/ RB.CL ..EXPERIMENT/ PHONON WIDTH/ 80, 300DK
 70-JA-03 JAYALAKSHMI, VISWAMITRA K.CL ..EXPERIMENT/ X-RAY SCATTERING
 70-RA-07 RAUNJO, ROLANDSON NA.CL/ K.CL/ RB.CL/ RB.F ..SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE
 70-RA-09 RAUNJO, ROLANDSON NA.CL/ K.CL/ RB.CL/ RB.F ..THEORY/ DISPERSION CURVES/ SHELL MODEL
 70-RE-02 REID, SMITH NA.F/ NA.CL/ NA.BR/ NA.I/ K.CL/ K.BR ..THEORY/ SOLID/ DEBYE-WALLER FACTOR ..SHELL MODEL/ ROOT
 73-BA-03 BASU, SENGUPTA NA.CL/ NA.BR/ K.I/ K.CL/ K.BR ..THEORY/ DEFORMABL SHELL MODEL/ PHONON DISPERSION/ FREQUENCY
 74-RO-01 ROMANO, MARGHERITIS K.CL ..IONIC POLARIZATION/ ALKALI HALIDE

- 4,156 POTASSIUM COBALT TRIFLUORIDE K.CO.F3
 71-BU-03 BUYERS, HOLDEN+ K.CO.F3 ..THEORY/ MAGNON DISPERSION/ PHONON-MAGNON INTERACTION
 71-HO-01 HOLDEN, BUYERS+ K.CO.F3 ..EXPERIMENT/ PHONON DISPERSION/ MAGNON DISPERSION
- 4,157 POTASSIUM(2) COBALT FLUORIDE K2.CO.F4
 74-IK-01 IKEDA K2.CO.F4/ K2.CU.F4/ K2.MN.F4/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
- 4,158 POTASSIUM COPPER FLUORIDE K.CU.F3
 74-IK-01 IKEDA K2.CO.F4/ K2.CU.F4/ K2.MN.F4/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
- 4,159 POTASSIUM(2) COPPER FLUORIDE K2.CU.F4
 74-IK-01 IKEDA K2.CO.F4/ K2.CU.F4/ K2.MN.F4/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
- 4,160 POTASSIUM(2) MANGANESE FLUORIDE K2.MN.F4
 73-IK-01 IKEDA, HIRAKAWA K2.MN.F4/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
 74-IK-01 IKEDA K2.CO.F4/ K2.CU.F4/ K.CU.F3/ K2.MN.F4/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
- 4,161 POTASSIUM CYANIDE K.C.N
 75-RO-02 ROWE, RUSH+ K.C.N/ NA.C.N ..EXPERIMENT/ PHONON DISPERSION
- 4,162 POTASSIUM DIHYDROGEN FLUORIDE K.H2.F3
 63-BO-02 BOUTIN, SAFFORD H.F/ K.H.F2/ K.H2.F3/ NA.H2.F3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
- 4,163 POTASSIUM DIHYDROGEN PHOSPHATE K.H2.P.O4
 61-RU-01 RUSH, TAYLOR+ K.H2.P.O4/ (N.H4)2.CR.O4/ (N.H4)2.CR2.O7/ N.H4.C.N.S/ N.H4.CL.O4 ..EXPERIMENT/ MOLECULAR DYN
 63-PA-01 PALEVSKY, OTNES+ K.H2.P.O4 ..EXPERIMENT/ TOF
 65-IM-01 IMRY, PELLAH+ K.H2.P.O4/ K2.H.P.O4/ K3.P.O4 ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
 65-PE-03 PELAH, WIENER+ K.H2.P.O4/ K2.H.P.O4/ K3.P.O4 ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
 67-BL-02 BLINC, DIMIC+ K.H2.P.O4 ..MOLECULAR DYNAMICS/ SOLID/ EXPERIMENT
 67-TH-01 THAPER, ROY+ K.H2.P.O4 ..EXPERIMENT/ FREQUENCY SPECTRA
 68-BU-05 BUYERS, COWLEY+ K.H2.P.O4 ..EXPERIMENT/ QUASI-ELASTIC SCATTERING ..34DC - -49.6DC
 68-CO-13 COWLEY, SVENSSON+ K.BR/ SR.TI.O3/ K.H2.P.O4 ..ELASTIC CONSTANT/ SOUND VELOCITY/ ANHARMONICITY
 68-SC-01 SCHENK, WIENER+ K.H2.P.O4 ..EXPERIMENT/ LATTICE DYNAMICS ..PHASE TRANSITION
 68-SC-02 SCHENK, WIENER+ K.H2.P.O4 ..EXPERIMENT/ TOF/ SINGLE CRYSTAL ..AS A FUNCTION OF TEMPERATURE/ PHASE TRANSITI
 68-SH-02 SHENK, WIENER+ K.H2.P.O4 ..INCOHERENT SCATTERING SPECTRA/ PHASE TRANSITION/ LATTIC VIBRATION
 68-ST-03 STEINMAN, SUMMERFIELD K.H2.P.O4 ..INCOHERENT SCATTERING
 69-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS/ BA.TI.O3/ K.H2.P.O4/ NA.N.O2 ..THEORY/ DIELECTRIC/ CRITICAL SCATT

- 69-ST-01 STEINMAN, SUMMERFIELD K.H2.P.04 ..THEORY/ INCOHERENT SCATTERING ..SINGLE CRYSTAL/ TUNNELING MOTION
 70-PA-06 PAUL, COCHRAN+ K.H2.P.04 ..EXPERIMENT/ THEORY/ PHASE TRANSITION/ NEUTRON SCATTERING
 70-SK-01 SKALYO-JR, FRAZER+ K.H2.P.04 ..EXPERIMENT/ OVERDAMPED PHONON MODE/ K.D2.P.04
 72-AN-04 ANTONINI, SOSNOWSKA+ K.H2.P.04/ N.H4.H2.P.04 ..ELASTIC SCATTERING/ INTERFERENCE EFFECT/ PARAELECTRIC PHASE
 72-AR-01 ARSIC-ESKINJA, GRIMM+ K.H2.P.04 ..EXPERIMENT/ ELASTIC SCATTERING/ PHASE TRANSITION
- 4,164 POTASSIUM FERROCYANIDE K4.FE.(C.N)6
- 65-RU-02 RUSH, TAYLOR K4.FE.(C.N)6/ (N,H4)2.S.04/ N.H4.H.S.04/ (N,H4)2.BE.F4 ..EXPERIMENT/ MOLECULAR LATTICE DYNAMICS
- 4,165 POTASSIUM FLUORIDE K.F
- 70-BU-02 BUEHRER K.F ..EXPERIMENT/ PHONON DISPERSION/ ELEVEN PARAMETER FITTING/ FREQUENCY SPECTRUM
- 4,166 POTASSIUM HYDROGEN IRON CARBONYL K.H.FE.(C.O)4
- 72-WH-03 WHITE, WRIGHT H.CO.(C.O)4/ H2.FE.(C.O)4/ H.MN.(C.O)5/ K.H.FE.(C.O)4/ H3.MN3.(C.O)12/ CS.H.FE3.(C.O)11 ..EX
- 4,167 POTASSIUM HYDROGEN TRICHLOROACETATE K.H.(C.CL3.C.O)2
- 72-GH-02 GHOSH, WADDINGTON+ NA.H.F2/ CS.H.CL2/ H.CR.02/ H.CO.02/ K.H.(C.CL3.C.O)2 ..EXPERIMENT/ NEUTRON SPECTROSCOPY
- 4,168 POTASSIUM IODIDE K.I
- 65-MI-01 MIKKE, DOBRZYNSKI N.H4.I/ K.I ..FREQUENCY SPECTRA/ SOLID SOLUTION
 66-DO-01 DOLLING, COWLEY+ K.I ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS
 67-IV-01 IVERONOVA, PARANGTOPO+ K.CL/ K.I ..LATTICE DYNAMICS/ DISPERSION RELATION ..X-RAY EXPERIMENT
 69-SA-03 SAFFORD, LEUNG+ H2.O/ LA.CL3/ CS.I/ CS.CL/ K.I/ K.BR/ K.CL/ NA.CL ..EXPERIMENT/ TOF SPECTRA/ INTERMOLECULAR
 69-SI-01 SINGH, VERMA K.I ..PHONON DISPERSION
 73-BA-03 BASU, SENGUPTA NA.CL/ NA.BR/ K.I/ K.CL/ K.BR ..THEORY/ DEFORMABLE SHELL MODEL/ PHONON DISPERSION/ FREQUENCY
 73-SA-03 SANGSTER MG.O/ NA.CL/ LI.F/ K.I ..INTERIONIC FORCE/ PHONON DISPERSION/ DEFORMABLE SHELL MODEL
- 4,169 POTASSIUM MANGANESE TRIFLUORIDE K.MN.F3
- 69-MI-02 MINKIEWICZ, SHIRANE K.MN.F3 ..EXPERIMENT/ DISPERSION RELATION/ TEMPERATURE DEPENDENCE
 70-SH-09 SHIRANE, MINKIEWICZ+ K.MN.F3 ..PHONON DISPERSION/ PHASE TRANSITION
 72-GE-02 GESI, AXE+ K.MN.F3 ..EXPERIMENTS/ SOFT PHONON/ DISPERSION RELATION/ CURIE-WEISS LAW/ DAMPING PARAMETER/ DI
 72-GE-03 GESI K.MN.F3 ..EXPERIMENT/ SOFT PHONON/ PHASE TRANSITION
 72-SH-03 SHAPIRO, AXE+ SR.TI.O3/ K.MN.F3 ..EXPERIMENT/ CRITICAL SCATTERING/ PHASE TRANSITION
 73-SH-01 SHAPIRO, AXE+ K.MN.F3 ..EXPERIMENT/ SOFT MODE DYNAMICS
 74-BE-02 SHIRAYAKU, HAMAGUCHI K.MN.F3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNETIC SCATTERING FUNCTION/ 3.4TN
 74-SH-04 SHIRANE SR.TI.O3/ K.MN.F3/ K.TA.O3/ PHASE-TRANSITION ..REVIEW/ SOFT MODE/ PHASE CHANGE
 75-BE-05 BETSUYAKU K.MN.F3/ MAGNETIC-SCATTERING ..THEORY/ SUM-RULE MOMENT METHOD/ SCATTERING FUNCTION
- 4,170 POTASSIUM MONOHYDROGEN PHOSPHATE K2.H.P.O4

- 65-1M-01 IMRY, PELAH+ K,H2,P.04/ K2,H,P.04/ K3,P.04 ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
 65-PE-03 PELAH, WIENER+ K,H2,P.04/ K2,H,P.04/ K3,P.04 ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
- 4,171 POTASSIUM NIOBATE K,NB.03
 74-CU-01 CURRAT, COMES+ K,NB.03/ PHASE-TRANSITION ..EXPERIMENT/ PHONON DISPERSION/ SOFT MODE
 74-ZA-01 ZACCAI, HEWAT K,NB.03/ K.TA.03 ..X-RAY AND NEUTRON DIFFRACTION/ DIFFUSE STREAK/ PHONON DISPERSION
- 4,172 POTASSIUM OXALATE HYDRATE K2,C2.04*H2.O
 69-TH-01 THAPER, SEQUEIRA+ K2.C2.04*H2.O/ BA,(CL.03)2*H2.O/ L12.S.04*H2.O/ CA.S.04*2(H2.O)/ CU.CL2*2(H2.O)/ BE.S.04
 70-TH-01 THAPER, DASANNACHARYA+ BA,(CL.03)2*H2.O/ K2.C2.04*H2.O ..EXPERIMENT/ HYDRATES/ LIBRATION OF H2.O IN HYDRAT
- 4,173 POTASSIUM PHOSPHATE K3,P.04
 65-1M-01 IMRY, PELAH+ K,H2,P.04/ K2,H,P.04/ K3,P.04 ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
 65-PE-03 PELAH, WIENER+ K,H2,P.04/ K2,H,P.04/ K3,P.04 ..EXPERIMENT/ LATTICE DYNAMICS ..TOF
- 4,174 POTASSIUM RHENIUM CHLORIDE K2,RE.CL6
 74-DU-01 DUROCHER, DARAIN K2,RE.CL6 ..DENSITY-OF-STATES/ CALCULATION
- 4,175 POTASSIUM RHENIUM HYDRIDE K2,RE,H9
 72-WH-02 WHITE, WRIGHT K2,RE,H9/ NA2,RE,H9 ..EXPERIMENT/ N-SPECTROSCOPY/ MOLECULAR VIBRATION
- 4,176 POTASSIUM TANTALATE K,TA.03
 67-SH-01 SHIRANE, NATHANS+ K,TA.03 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE/ LATTICE DYNAMICS
 70-AX-02 AXE, HARADA+ K,TA.03 ..PHONON DISPERSION/ CRITICAL PHENOMENA
 70-HA-01 HARADA, AXE+ K,TA.03/ SR,TT.03/ RB,MN,LF3 ..EXPERIMENT/ INELASTIC STRUCTURE FACTOR/ PHONON EIGENVECTOR/ FERR
 72-CO-03 COMES, SHIRANE K,TA.03 ..EXPERIMENT/ PHONON DISPERSION/ ANISOTROPY
 74-SH-04 SHIRANE SR,TT.03/ K,MN,F3/ K,TA.03/ PHASE-TRANSITION ..REVIEW/ SOFT MODE/ PHASE CHANGE
 74-ZA-01 ZACCAI, HEWAT K,NB.03/ K,TA.03 ..X-RAY AND NEUTRON DIFFRACTION/ DIFFUSE STREAK/ PHONON DISPERSION
- 4,177 PRASEODYMIUM ALUMINATE PR,AL.03
 74-BI-02 BIRGENEAU, KJEMS+ PR,AL.03 ..JAHN-TELLER/ STRUCTURAL-PHASE-TRANSITION
- 4,178 QUARTZ SI.02
 67-EL-01 ELCOMBE QUARTZ ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
 69-LE-01 LEADBETTER SILICA/ QUARTZ/ CRISTOBALITE ..EXPERIMENT/ COLLECTIVE VIBRATION/ AMORPHOUS SOLID ..TOF/ SILICA/

70-AX-01 AXE, SHIRANE QUARTZ .. EXPERIMENT/ PHONON/ CRITICAL SCATTERING .. PHASE TRANSFORMATION/ ABOVE 573DC/ CONST.-

4.179 RUBIDIUM AZIDE RB,N3
 69-60-01 GOVINDARAJAN, HARIDASAN K.N3/ RB,N3/ CS,N3 .. THEORY/ LATTICE VIBRATION .. RIGID ION MODEL/ BODY CENTERED TE

4.180 RUBIDIUM BROMIDE RB,BR
 68-BU-04 BUYERS, COWLEY K,BR/ RB,BR .. EXPERIMENT/ LATTICE DYNAMICS .. MIXED CRYSTAL
 71-RO-02 ROLANDSON, RAUNIO RB,BR .. EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING/ ELASTIC CONSTANT/ DIELECTRIC
 72-LA-02 LAL, VERMA RB,F/ RB,CL/ RB,BR/ RB,I .. THEORY/ PHONON DISPERSION/ SHELL MODEL
 75-PR-02 PRICE, COPLEY RB,BR .. EXPERIMENT/ COMPUTER SIMULATION/ LIQUID/ 986DK

4.181 RUBIDIUM CHLORIDE RB,CL
 69-RA-04 RAUNIO NA,CL/ K,CL/ RB,CL .. EXPERIMENT/ PHONON WIDTH/ 80, 300DK
 70-RA-07 RAUNIO, ROLANDSON NA,CL/ K,CL/ RB,CL/ RB,F .. SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE
 70-RA-08 RAUNIO, ROLANDSON RB,CL/ RB,F .. EXPERIMENT/ CONST.-0/ LATTICE DYNAMICS/ DISPERSION RELATION .. 80DK/ DEFORM
 70-RA-09 RAUNIO, ROLANDSON NA,CL/ K,CL/ RB,CL/ RB,F .. THEORY/ DISPERSION CURVES/ SHELL MODEL
 72-LA-02 LAL, VERMA RB,F/ RB,CL/ RB,BR/ RB,I .. THEORY/ PHONON DISPERSION/ SHELL MODEL
 72-PA-02 PANDEY, DAYAL RB,CL .. THEORY/ PHONON DISPERSION/ SHELL MODEL

4.182 RUBIDIUM FLUOMANGANATE RB,MN,F3
 70-HA-01 HARADA, AXE+ K.TA,03/ SR,TI,03/ RB,MN,F3 .. EXPERIMENT/ INELASTIC STRUCTURE FACTOR/ PHONON EIGENVECTOR/ FERR

4.183 RUBIDIUM FLUORIDE RB,F
 70-RA-07 RAUNIO, ROLANDSON NA,CL/ K,CL/ RB,CL/ RB,F .. SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE
 70-RA-08 RAUNIO, ROLANDSON RB,CL/ RB,F .. EXPERIMENT/ CONST.-0/ LATTICE DYNAMICS/ DISPERSION RELATION .. 80DK/ DEFORM
 70-RA-09 RAUNIO, ROLANDSON NA,CL/ K,CL/ RB,CL/ RB,F .. THEORY/ DISPERSION CURVES/ SHELL MODEL
 72-LA-02 LAL, VERMA RB,F/ RB,CL/ RB,BR/ RB,I .. THEORY/ PHONON DISPERSION/ SHELL MODEL
 75-JA-01 JAIN, SRIVASTAVA RB,F .. THEORY/ PHONON DISPERSION
 75-SN-01 SNEH, DAYAL NA,F/ RB,F .. THEORY/ PHONON DISPERSION/ SIMPLE SHELL MODEL

4.184 RUBIDIUM HYDROSULFIDE RB,S.H
 73-RO-02 ROWE, LIVINGSTON+ CS,S,H/ RB,S,H .. EXPERIMENT/ QUASI-ELASTIC PEAK/ MOLECULAR ROTATIONS/ MEAN SQUARE DISPLA

4.185 RUBIDIUM IODIDE RB,I
 60-SA-01 SAUNDERSON RB,I .. EXPERIMENT/ LATTICE DYNAMICS
 65-HA-02 HARDY, KARO RB,I .. DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS
 66-SA-05 SAUNDERSON RB,I .. EXPERIMENT/ PHONON FREQUENCY/ PRESSURE EFFECT
 70-RA-10 RAUNIO, ROLANDSON RB,I .. EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING

72-LA-02 LAL, VERMA RB,F/ RB,CL/ RB,BR/ RB,I ..THEORY/ PHONON DISPERSION/ SHELL MODEL
 74-KR-01 KRESS RB,I ..THEORY/ PHONON DISPERSION/ GRUENEISEN CONSTANT/ BREATHING SHELL MODEL
 75-BL-01 BLASCHKO, ERNST+ RB,I ..PHONON FREQUENCY/ PRESSURE EFFECT/ GRUENEISEN PARAMETER

4.186 RUTILE TI,02
 70-KA-03 KATIYAR RUTILE ..THEORY/ LATTICE DYNAMICS ..MULTIPLIER GROUP APPROACH
 70-TR-01 TRYLOR TI,02 ..EXPERIMENT/ DISPERSION RELATION/ RIGID ION MODEL/ SHELL MODEL/ FREQUENCY SPECTRUM/ DIELECTRIC LOSS
 71-KA-01 KATIYAR TI,02 ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ SHELL MODEL
 71-TR-01 TRAYLOR, SMITH+ TI,02 ..EXPERIMENT/ DISPERSION CURVE/ NEUTRON SCATTERING/ THEORY/ FREQUENCY SPECTRUM ..TEMPERATURE DEPENDENCE

4.187 RUTHENIUM TETROXIDE RU,04
 72-MC-01 MCDOWELL, ASPREY+ RU,04 ..EXPERIMENT ..INFRARED AND RAMAN SPECTRA/ VAPOR AND LIQUID PHASE/ ANHARMONICITY/ Raman Scattering

4.188 SELENIUM TELLURIDE SE,TE
 69-GI-03 GILLIS SE,TE ..THEORY/ SOLID
 4.189 SILANE SI,H4
 72-HA-04 HAUTECLER, VORDERWISCH SI,H4 ..EXPERIMENT/ TOF SPECTRA/ GAS AND LIQUID STATE

4.190 SILICA SI,02
 69-LE-01 LEADBETTER SILICA/ QUARTZ/ CRISTOBALITE ..EXPERIMENT/ COLLECTIVE VIBRATION/ AMORPHOUS SOLID ..TOF/ SILICA/ Raman Scattering

4.191 SILICON CARBIDE SI,C
 69-HO-01 HODGES SI,C ..THEORY/ SOLID/ LATTICE DYNAMICS
 69-VE-01 VETELINO, MITRA SI,C ..LATTICE DYNAMICS/ SOLID/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
 71-BA-05 BANERJEE, VARSHNI ZN,S/ GA,P/ SI,C ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMPERATURE
 74-PA-04 PANDEY SI,C/ ZN,S ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..POLYTYPE/ FORCE CONSTANT MODEL

4.192 SILVER BROMIDE AG,BR
 72-FI-01 FISCHER, BILZ+ AG,CL/ AG,BR ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ SHELL MODEL
 72-HA-06 HAWRANEK, LOWNDES AG,BR ..THEORY/ PHONON DISPERSION/ STATE DENSITY/ DEFORMATION DIPOLE MODEL
 74-KA-03 KANZAKI, SAKURAGI+ AG,BR ..DISPERSION-CURVES ..(111)-DIRECTION
 75-BU-02 BUEHNER AG,BR ..EXPERIMENT/ PHONON DISPERSION/ 80 AND 295K/ 12-PARAMETER MODEL FITTING/ FREQUENCY DISTRIBUTION
 75-VO-01 VON-DER-OSTEN, DORNER AG,BR ..DISPERSION RECALCULATION

4.193 SILVER CHLORIDE AG,CL

70-VI-01 VIJAYARAGHAVAN, NICKLOW+ SILVER CHLORIDE ..EXPERIMENT/ LATTICE DYNAMICS/ 70DK/ DISPERSION CURVE/ DENSITY S
 72-FI-01 FISCHER, BILZ+ AG.CL/ AG.BR ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ SHELL MODEL
 72-SI-08 SINGH AG.CL ..MODIFIED SHELL MODEL/ THEORY
 74-FI-01 FISCHER AG.CL ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ ANHARMONICITY/ FREQUENCY SPECTRUM

4.194 SILVER GALLIUM SULFIDE AG.GA.S2

74-HO-01 HOLAH, WEBB+ AG.GA.S2 ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION

4.195 SILVER IODINE AG,I

75-BU-01 BUEHRER, BRUEESCH AG,I ..EXPERIMENT/ SOLID/ DISPERSION RELATION

4.196 SODAMIDE NA,N,H2

71-DA-01 DAY, SINCLAIR ZR-H/ H2,O/ C6,H7,N/ NA,N,H2 ..EXPERIMENT/ TOF SPECTRA/ PULSED NEUTRON SOURCE
 71-DA-02 DAY, SINCLAIR ZR-H/ H2,O/ SODAMIDE/ ANILINE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LINAC PULSED NEUTRON SOURCE

4.197 SODIUM AZIDE NA,N3

70-RA-05 RAO, TREVINO NA,N3 ..THEORY/ LATTICE DYNAMICS/ GROUP-THEORETICAL ANALYSIS
 72-RA-02 RAFIZADEH, YIP+ NA,N3 ..EXPERIMENT/ THEORY/ TIME OF FLIGHT/ DISPERSION RELATION/ FREQUENCY/ DISTRIBUTION

4.198 SODIUM BROMIDE NA,BR

68-BU-06 BUYERS, SMITH K,CL/ K,BR/ NA,I/ NA,CL/ NA,BR/ NA,F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/
 68-ME-01 MELVIN, PIRIE+ NA,F/ NA,CL/ NA,BR/ NA,I ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..SHELL MODEL/ IONIC
 70-RE-01 REID, SMITH+ NA,BR ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTR..295DK/ RIGID SHE
 70-RE-02 REID, SMITH NA,F/ NA,CL/ NA,BR/ NA,I/ K,CL/ K,BR ..THEORY/ SOLID/ DEBYE-WALLER FACTOR ..SHELL MODEL/ ROOT
 70-SI-05 SINGH, VERMA NA,F/ NA,BR/ NA,CL/ NA,I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED SHE
 71-NA-03 NAMJOSHI, MITRA NA,BR ..THEORY/ PHONON DISPERSION/ BREATHING SHELL MODEL
 73-BA-03 BASU, SENGUPTA NA,CL/ NA,BR/ K,I/ K,CL/ K,BR ..THEORY/ DEFORMABL SHELL MODEL/ PHONON DISPERSION/ FREQUENCY

4.199 SODIUM CHLORIDE NA,CL

68-AL-01 ALMØVIST, RAUNIO+ NA,CL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..80DK
 68-BE-01 BENEDEK, NARDELLI NA,CL/ K,CL ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS
 68-BU-06 BUYERS, SMITH K,CL/ K,BR/ NA,I/ NA,CL/ NA,BR/ NA,F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/
 68-ME-01 MELVIN, PIRIE+ NA,F/ NA,CL/ NA,BR/ NA,I ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..SHELL MODEL/ IONIC
 69-RA-02 RAUNIO, ALMØVIST+ NA,CL ..DISPERSION RELATION/ EXPERIMENT/ SOLID ..80DK/ 300DK
 69-RA-04 RAUNIO NA,CL/ K,CL/ RB,CL ..EXPERIMENT/ PHONON WIDTH/ 80, 300DK
 70-KU-02 KUCHER, SHCHUR NA,CL ..PHONON DISPERSION
 70-RA-07 RAUNIO, ROLANDSON NA,CL/ K,CL/ RB,CL/ RB,F ..SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE
 70-RA-09 RAUNIO, ROLANDSON NA,CL/ K,CL/ RB,CL/ RB,F ..THEORY/ DISPERSION CURVES/ SHELL MODEL
 70-RE-02 REID, SMITH NA,F/ NA,CL/ NA,BR/ NA,I/ K,CL/ K,BR ..THEORY/ SOLID/ DEBYE-WALLER FACTOR ..SHELL MODEL/ ROOT
 70-SC-01 SCHMUNK NA,CL ..LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ SOLID

70-SC-02 SCHMUNK, WINDER NA,CL ..PHONON DISPERSION
 70-SI-05 SINGH, VERMA NA,F/ NA,BR/ NA,CL/ NA,I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED SHE
 71-NA-02 NAMJOSHI, MITRA+ THEORY-OF-SOLIDS/ NA,F/ NA,CL ..LATTICE DYNAMICS/ DISPERSION RELATION/ RIGID ION MODEL US
 73-BA-03 BASU, SENGUPTA NA,CL/ NA,BR/ K,I/ K,CL/ K,BR ..THEORY/ DEFORMABL SHELL MODEL/ PHONON DISPERSION/ FREQUENCY
 73-SA-03 SANGSTER MG,O/ NA,CL/ LI,F/ K,I ..INTERIONIC FORCE/ PHONON DISPERSION/ DEFORMABLE SHELL MODEL
 74-AB-01 ABRAMO, PARRINELLO+ NA,CL ..SCATTERING THEORY/ MOLTEN SALTS
 74-LA-01 LANTELME, TUR@+ NA,CL ..THEORY/ FUSED SALT/ RADIAL DISTRIBUTION FUNCTION

4,200 SODIUM CYANIDE NA,C,N

75-RO-02 ROWE, RUSH+ K,C,N/ NA,C,N ..EXPERIMENT/ PHONON DISPERSION

4,201 SODIUM DIHYDROGEN FLUORIDE NA,H2,F3

63-BO-02 BOUTIN, SAFFORD H,F/ K,H,F2/ K,H2,F3/ NA,H2,F3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS

4,202 SODIUM FLUORIDE NA,F

67-BU-02 BUYERS NA,F ..EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
 68-ME-01 MELVIN, PIRIE+ NA,F/ NA,CL/ NA,BR/ NA,I ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..SHELL MODEL/ IONIC
 69-HA-03 HARDY, KARO+ NA,F ..LATTICE DYNAMICS/ THEORY/ EXPERIMENT ..RAMAN SPECTRUM/ 300DK
 69-KA-03 KARO, HARDY NA,F ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY SPECTRA ..RIGID-ION MODEL/ DEF
 70-RE-02 REID, SMITH NA,F/ NA,CL/ NA,BR/ NA,I/ K,CL/ K,BR ..THEORY/ SOLID/ DEBYE-WALLER FACTOR ..SHELL MODEL/ ROOT
 70-SI-05 SINGH, VERMA NA,F/ NA,BR/ NA,CL/ NA,I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED SHE
 71-NA-02 NAMJOSHI, MITRA+ THEORY-OF-SOLIDS/ NA,F/ NA,CL ..LATTICE DYNAMICS/ DISPERSION RELATION/ RIGID ION MODEL US
 74-GH-01 GHOSH, BASU+ NA,F ..DISPERSION-CURVES/ DENSITY-OF-STATES/ THEORY
 75-SN-01 SNEH, DAYAL NA,F/ RB,F ..THEORY/ PHONON DISPERSION/ SIMPLE SHELL MODEL

4,203 SODIUM HYDROGEN CARBONATE NA,H,C,O3

70-CO-02 COLLINS, HAYWOOD+ K,H,F2/ CS,H,CL2/ NA,H,C,O3/ K,C2,CL3,O2/ K,C2,F3,O2 ..EXPERIMENT/ MOLECULAR DYNAMICS/ F

4,204 SODIUM HYDROGEN FLUORIDE NA,H,F2

72-GH-02 GHOSH, WADDINGTON+ NA,H,F2/ CS,H,CL2/ H,CR,O2/ H,CO,O2/ K,H,(C,CL3,C,O2)2 ..EXPERIMENT/ NEUTRON SPECTROSCO
 72-RO-01 RUSH, SCHROEDER+ K,H,F2/ NA,H,F2 ..NEUTRON SPECTROSCOPY/ RAMAN, INFRARED SPECTROSCOPY
 73-SM-02 SMITH, TEMME+ NA,H,F2/ K,H,F2/ CS,H,CL2/ CS,H,BR2 ..EXPERIMENT/ FREQUENCY SPECTRA/ TOF SPECTRA

4,205 SODIUM HYDROSULFIDE NA,S,H

73-RU-02 RUSH, DE-GRAFF+ NA,S,H/ CS,S,H ..THEORY/ EXPERIMENT/ QUASI-ELASTIC PEAK/ SIGMA (THETA,E) ..SH-ION LIBRATIO

4,206 SODIUM IODIDE NA,I

60-WO-01 WOODS, COCHRAN+ NA,I ..EXPERIMENT/ DISPERSION RELATION

- 63-CO-03 COCHRAN, COWLEY+ K,BR/ NA.1 ..THEORY/ PHONON DISPERSION
 63-WO-02 WOODS, BROCKHOUSE+ K,BR/ NA.1 ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..90DK
 66-CO-03 COWLEY, COWLEY K,BR/ NA.1/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY/ PHONON DISPERSION
 68-BU-06 BUYERS, SMITH K,CL/ K,BR/ NA.1/ NA,CL/ NA,BR/ NA.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/
 68-ME-01 MELVIN, PIRIE+ NA,F/ NA,CL/ NA,BR/ NA.1 ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..SHELL MODEL/ IONIC
 68-OU-01 QUITTNER, VUKOVICH+ NA.1 ..EXPERIMENT/ LATTICE DYNAMICS ..PRESSURE EFFECTS/ 3000 ATM
 70-KU-01 KUCHNER, TOMASEVICH NA.1 ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION
 70-RE-02 REID, SMITH NA,F/ NA,CL/ NA,BR/ NA.1/ K,CL/ K,BR ..THEORY/ SOLID/ DEBYE-WALLER FACTOR ..SHELL MODEL/ ROOT
 70-SI-05 SINGH, VERMA NA,F/ NA,BR/ NA,CL/ NA.1 ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED SHE
 73-MI-05 MITRA, SINGH LI,H/ NA.1/ LI,F/ LI,CL/ LI,BR/ K,F/ K,CL/ K,BR/ K,I/ RB,I ..THEORY/ LATTICE DYNAMICS/ FORCE
 75-BI-03 BILZ, BUCHANAN+ NA.1 ..THEORY/ OVERLAP POLARIZATION/ SHELL MODEL
- 4.207 SODIUM NITRATE NA,N.03
- 70-RA-03 RAO, TREVINO+ NA,N.03 ..THEORY/ GROUP-THEORETICAL ANALYSIS/ LATTICE DYNAMICS
 70-SA-02 SAKURAI, COWLEY+ NA,N.03 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ DISPERSION RELATION
 71-LO-01 LOGAN, TREVINO+ NA,N.03 ..EXPERIMENT/ PHONON DISPERSION
 73-PL-02 PLIHAL NA,N.03 ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ SPECIFIC HEAT
- 4.208 SODIUM NIOBATE NA,NB.03
- 72-AH-02 AHTEE, GLAZER+ NA,NB.03 ..THEORY/ PHASE TRANSITION/ SOFT PHONON
- 4.209 SODIUM NITRITE NA,N.02
- 69-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS/ BA.TI.03/ K.H2.P.04/ NA,N.02 ..THEORY/ DIELECTRIC/ CRITICAL SCATT
 70-DO-04 DOLLING, SAKURAI+ NA,N.02 ..PHONON DISPERSION
 75-BO-01 BONILLA, RUTT NA,N.02 ..RAMAN SPECTRA/ ANGULAR DISPERSION/ INTERNAL PHONON
- 4.210 SODIUM RHENIUM HYDRIDE NA2.RE.H9
- 72-WH-02 WHITE, WRIGHT K2.RE.H9/ NA2.RE.H9 ..EXPERIMENT/ N-SPECTROSCOPY/ MOLECULAR VIBRATION
- 4.211 STRONTIUM CHLORIDE SR.CL2
- 73-DE-01 DENHAM, MORSE+ SR.CL2 ..INFRA-RED, RAMAN SPECTRA/ PHONON DISPERSION,FREQUENCY SPECTRA CALCULATION
- 4.212 STRONTIUM FLUORIDE SR.F2
- 70-DE-03 DENHAM, FIELD+ CA,F2/ SR.F2/ BA,F2/ CO,F2/ PB,F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION
 71-MA-04 MAIR, BARNEA SR,F2 ..ANHARMONIC EFFECT
 72-EL-01 ELCOMBE SR,F2 ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING/ STATE DENSITY
 72-KU-01 KUEHNER, WAGNER SR,F2/ BA,F2 ..THEORY/ PHONON DISPERSION/ GENERALIZED SHELL MODEL/ VIBRONIC SPECTRA
- 4.213 STRONTIUM OXIDE SR.O

71-CA-01 CALTIER, MONTANER MG./O/ CA./O/ SR./O/ BA./O ..THEORY/ PHONON DISPERSION
 75-UP-02 UPADHYAYA, SINGH CA./O/ SR./O ..THEORY/ LATTICE DYNAMICS/ THREE BODY FORCE SHELL MODEL/ PHONON DISPERSION/ D
 75-UP-04 UPADHYAYA, SINGH CA./O/ SR./O ..THEORY/ LATTICE DYNAMICS/ THREE-BODY FORCE SHELL MODEL/ PHONON DISPERSION/ D

4.214 STRONTIUM TITANATE

SR, TI, O3

62-CO-05 COWLEY SR, TI, O3 ..EXPERIMENT/ DISPERSION RELATION
 63-CO-08 COWLEY SR, TI, O3 ..DISPERSION RELATION/ EXPERIMENT/ LATTICE DYNAMICS ..TEMPERATURE DEPENDENCE
 64-CO-02 COWLEY SR, TI, O3 ..DISPERSION RELATION/ EXPERIMENT/ LATTICE DYNAMICS
 66-SO-01 SOLOVEV, KUKHTO+ SR, TI, O3/ BA, TI, O3/ PB, TI, O3 ..EXPERIMENT/ LATTICE VIBRATION ..POLYCRYSTAL/ ROOM TEMP/ 47
 68-CO-11 COWLEY, BUYERS+ K, BR/ SR, TI, O3 ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ ELASTIC CONSTANT ..NEUTRON MEASUREM
 68-CO-13 COWLEY, SVENSSON+ K, BR/ SR, TI, O3/ K, H2, P, O4 ..ELASTIC CONSTANT/ SOUND VELOCITY/ ANHARMONICITY
 68-FL-01 FLEURY, SCOTT+ SR, TI, O3 ..RAMAN SPECTROSCOPY
 69-CO-09 COWLEY, BUYERS+ SR, TI, O3 ..PHASE TRANSITION/ LATTICE VIBRATION
 69-MO-01 MONTGOMERY ZN, S/ DIAMOND/ SR, TI, O3 ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES
 69-SH-06 SHIRANE, YAMADA SR, TI, O3 ..EXPERIMENT/ LATTICE DYNAMICS/ PHASE TRANSITION ..SOFT PHONON MODE
 69-YA-01 YAMADA, SHIRANE SR, TI, O3 ..EXPERIMENT/ CONST.-0/ DISPERSION RELATION/ TEMPERATURE DEPENDENCE ..4.5DK-300DK
 70-HA-01 HARADA, AXE+ K, TA, O3/ SR, TI, O3/ RB, MN, F3 ..EXPERIMENT/ INELASTIC STRUCTURE FACTOR/ PHONON EIGENVECTOR/ FERR
 70-ZE-01 ZEIN, ZINENKO+ SR, TI, O3/ PB, ZR, O3 ..THEORY/ LATTICE DYNAMICS/ FERROELECTRICITY/ PHASE TRANSITION
 71-IS-01 ISHIBASHI, TAKAGI BA, TI, O3/ SR, TI, O3 ..THEORY/ CALCULATION/ FORCE CONST ANALYSIS
 71-OT-01 OTNES, RISTE+ SR, TI, O3 ..EXPERIMENT/ SOFT PHONON/ CURIE-WEISS LAW/ PHASE TRANSITION
 71-RI-01 RISTE, SAMUELSEN+ SR, TI, O3 ..PHASE TRANSITION/ CRITICAL SCATTERING/ SOFT PHONON/ CENTRAL PEAK
 72-EN-01 ENZ SR, TI, O3 ..THEORY/ SOFT MODE/ CENTRAL PEAK S(0,0)/ PHASE TRANSITION
 72-II-02 IIZUMI, GESI+ SR, TI, O3 ..EXPERIMENT/ PHONON DISPERSION
 72-IS-02 ISHIBASHI BA, TI, O3/ SR, TI, O3 ..THEORY/ FORCE CONSTANT
 72-SH-03 SHAPIRO, AXE+ SR, TI, O3/ K, MN, F3 ..EXPERIMENT/ CRITICAL SCATTERING/ PHASE TRANSITION
 72-SI-01 SILBERGLITT SR, TI, O3 ..THEORY/ SOFT MODE
 72-ST-05 STIRLING SR, TI, O3 ..EXPERIMENT/ PHONON DISPERSION/ VARIOUS MODEL FITTING/ FREQUENCY DISTRIBUTION/ SPECIF
 73-AX-01 AXE, SHAPIRO+ NB3, SN/ SR, TI, O3 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE
 73-BR-02 BRUCE, COWLEY SR, TI, O3/ PHASE-TRANSITION ..THEORY/ ANHARMONIC MODEL/ PHONON FREQUENCY, LINE WIDTH
 73-II-02 IIZUMI, GESI+ SR, TI, O3 ..PHONON DISPERSION
 73-ME-01 MEIER NB3, SN/ SR, TI, O3/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY ..SINGULAR WIDTH GAMMA/ QUASI-PARTIC
 74-SH-04 SHIRANE SR, TI, O3/ K, MN, F3/ K, TA, O3/ PHASE-TRANSITION ..REVIEW/ SOFT MODE/ PHASE CHANGE

4.215 TANTALUM CARBIDE

TA, C

70-SM-01 SMITH, GLAESER TA, C/ HF, C ..EXPERIMENT/ DISPERSION RELATION
 71-SM-01 SMITH, GLAESER TA, C/ HF, C/ NB, C ..EXPERIMENT/ PHONON DISPERSION/ SUPERCONDUCTIVITY
 72-MO-02 MOSTOLLER U, C/ HF, C/ TA, C/ NB, C ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL APPROACH
 72-SM-03 SMITH TA, C ..PHONON DISPERSION
 73-WE-02 WEBER TI, C/ ZR, C/ V, C/ NB, C/ TA, C/ U, C ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION/ FREQUE
 75-VE-01 VERMA, GUPTA TA, C/ HF, C ..THEORY/ DISPERSION RELATION/ SOLID ..THREE-BODY-FORCE SHELL MODEL/ LONG-RANGE IO

4.216 TELLURIUM DIOXIDE

TE, O2

75-MC-03 MCWHAN, BIRGENEAU+ TE, O2 ..PHONON DISPERSION/ PRESSURE EFFECT/ PHASE TRANSITION

4.217 TERBIUM VANADATE TB.V.04
 75-HU-01 HUTCHINGS, SCHERM+ TB.V.04 ..INELASTIC NEUTRON SCATTERING/ JAHN-TELLER PHASE TRANSITION

4.218 THALLOUS CHLORIDE TL,CL
 69-KA-01 KAMAL, MENDIRATTA TL,CL ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ SPECIFIC HEAT

4.219 THALLOUS BROMIDE TL,BR
 67-CO-03 COWLEY, OKAZAKI TL,BR ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
 75-SR-01 SRINIVASAN, LAKSHMI+ TL,BR ..THEORY/ PHONON DISPERSION/ SHELL-MODEL
 75-SR-02 SRINIVASAN, LAKSHMI+ TL,BR ..THEORY/ GRUENEISEN PARAMETER/ SHELL MODEL

4.220 THIOUREA S.C.(N,H2)2
 75-MC-01 MCKENZIE THIOUREA ..SOLID/ EXPERIMENT/ TRIPLE-AXIS-SPECTROMETER/ DISPERSION RELATION/ DEUTERATED THIOUREA
 75-MC-02 MCKENZIE THIOUREA ..EXPERIMENT/ TRIPLE-AXIS-SPECTROMETER/ SOLID/ DEUTERATED THIOUREA ..ANTIFEROELECTRIC T

4.221 THORIUM DIOXIDE TH,O2
 66-BE-03 BESHAI U/ U,O2/ TH,O2 ..EXPERIMENT/ TOTAL CROSS SECTION/ TOF

4.222 THULIUM IRON OXIDE TM,FE,03
 74-SH-01 SHAPIRO, AXE TM,FE,03/ ER,FE,03/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION/ SOFT MODE

4.223 TIN DIOXIDE SN,O2
 67-BR-02 BROVMAN, KAGAN SN/ SN,O2 ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS/ BORN-VON
 71-KA-02 KATIYAR, DAWSON+ SN,O2 ..EXPERIMENT/ INFRARED/ RAMAN/ OPTICAL FREQUENCY/ DIELECTRIC CONSTANT/ THEORY/ DISP

4.224 TIN TELLURIDE SN,TE
 66-PA-04 PAWLEY, COCHRAN+ SN,TE ..EXPERIMENT/ PHONON DISPERSION/ TEMPERATURE DEPENDENCE
 69-CO-06 COWLEY, DARBY+ SN,TE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..100DK
 70-LE-04 LEFKOWITZ, SHIELDS+ SN,TE ..EXPERIMENT/ SN0.94.GEO.05.TE/ PHONON DISPERSION

4.225 TITANIUM CARBIDE TI,C
 73-WE-01 WEBER TI,C/ ZR,C/ HF,C ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..SUPERCONDUCTOR/ ST
 73-WE-02 WEBER TI,C/ ZR,C/ V,C/ NB,C/ TA,C U.C ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION/ FREQUE

- 4.226 TUNGSTATE
 72-ST-04 STEINMAN, KING+ CA,W.04 ..EXPERIMENT/ PHONON DISPERSION/ RIGID-ION, SHELL MODEL CALCULATION
 CA,W.04
- 4.227 URANIUM CARBIDE
 U.C
 67-PA-04 PAN, YEATER+ ZR-H/ NB-H/ TI-H/ U.C ..EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
 BORGONOV, CARRIVEAU U.C ..SOLID/ SIGMA CE) ..ROOM TEMPERATURE
 68-BO-02 LAJUNESSE, MOORE+ U.C ..THEORY/ EXPERIMENT/ CROSS SECTION/ FREQUENCY DISTRIBUTION
 68-LA-01 PUROHIT, PAN+ U.C/ U.02/ ZR-H/ TI-H/ NB-H/ TH-H ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT
 68-PU-01 SLAGGIE U.C ..THEORY/ SOLID/ LATTICE DYNAMICS/ CENTRAL-FORCE MODELS/ BORN-VON KARPAN MODEL/ FREQUENCY D
 68-SL-03 MOSTOLLER U.C/ HF.C/ TA.C/ NB.C ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL APPROACH
 72-MO-02
- 4.228 URANIUM DIOXIDE
 U.02
 63-TH-02 THORSON, HAYWOOD U.02 ..EXPERIMENT/ SOLID/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ TOF ..22 DC
 65-DO-01 DOLLING, COWLEY+ U.02 ..EXPERIMENT/ THEORY/ DISPERSION RELATION ..296DK/ 7-PARAMETER RIGID ION MODEL/ TRIP
 65-WO-04 WOODS, DOLLING+ U.02 ..CRYSTAL DYNAMICS/ DISPERSION RELATION/ EXPERIMENT
 66-AD-01 ADKINS, PERSIANI+ U.02 ..THEORY/ LATTICE DYNAMIC/ FREQUENCY DISTRIBUTION ..ROSONANCE LINE SHAPES
 66-BE-03 BESHAI U/ U.02/ TH.02 ..EXPERIMENT/ TOTAL CROSS SECTION/ TOF
 67-BI-01 BISCHOFF, BRYANT+ POLYETHYLENE/ H2.O/ ZR-H/ NB-H/ U.02 ..EXPERIMENT
 68-BE-03 BEYSTER, BORGONOV+ BIPHENYL/ ZR-H/ U.02 ..LATTICE DYNAMICS/ SCATTERING FUNCTION
 68-PU-01 PUROHIT, PAN+ U.C/ U.02/ ZR-H/ TI-H/ NB-H/ TH-H ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT
 68-TH-01 THORSON ZR-H/ U.02 ..SCATTERING FUNCTION/ EXPERIMENT/ SOLID ..DIFFERENTIAL SCATTERING CROSS SECTION
- 4.229 UREA
 C.O.(N,H2)2
 67-RU-03 RUSH UREA ..INELASTIC SCATTERING SPECTRA
 68-TR-03 TREVINO UREA ..THEORY/ SOLID
 71-MC-01 MCKENZIE, PRYOR UREA ..THEORY/ PHONON DISPERSION
 73-LE-01 LEFEBVRE UREA ..PHONON DISPERSION/ X-RAY EXPERIMENT
 75-LE-01 LEFEBRE, MORE+ UREA ..EXPERIMENT/ SOLID/ COHERENT SCATTERING/ DISPERSION RELATION/ DEUTRATED UREA
- 4.230 VANADIUM CARBIDE
 V.C
 73-WE-02 WEBER TI.C/ ZR.C/ V.C/ NB.C/ TA.C/ U.C ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION/ FREQUE
- 4.231 VANADIUM OXIDE
 V.02
 72-HE-01 HEARN V.02 ..THEORY/ METAL-NONMETAL PHASE TRANSITION/ SOFT PHONON
- 4.232 VANADIUM SILICIDE
 V3.SI
 71-DI-01 DIETERICH, SCHUSTER V3.SI ..THEORY/ PHONON DISPERSION/ SOFT PHONON
 71-SH-05 SHIRANE, AXE+ V3.SI ..EXPERIMENT/ PHONON DISPERSION/ TEMPERATURE DEPENDENCE

- 4.233 XENON TETROXIDE XE.O4
 72-MC-02 MCDOWELL, ASPREY XE.O4 ..EXPERIMENT ..VAPOR/ FREQUENCY SHIFT AND ANHARMONICITY CORRECTIONS/ INFRARED AND R
- 4.234 YTTRIUM VANADATE Y.V.O4
 68-MI-03 MILLER, CASPERS+ Y.V.O4 ..EXPERIMENT/ LATTICE DYNAMICS ..INFRARED AND RAHMAN SPECTROSCOPY
- 4.235 ZINC OXIDE ZN.O
 70-HE-01 HEWAT ZN.O/ BE.O ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES
 70-WE-01 WEGENER, HAUTECLER ZN.O ..EXPERIMENT/ TOF/ DISPERSION RELATION
 70-WE-02 WEGNER ZN.O ..DISPERSION RELATION
 74-TH-01 THOMA, DORNER+ ZN.O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING WITH 10 PARAMETERS
- 4.236 ZINC SELENIDE ZN,SE
 71-HE-01 HENNION, MOUSSA+ ZN,SE ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON DENSITY
 71-KU-01 KUNG, BALKANSKI+ ZN,SE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ DEFORMABLE BOND MODEL
 72-IR-01 IRWIN, LACOMBE ZN,SE ..RAMAN SPECTRA/ MODEL FITTING/ STATE DENSITY/ SPECIFIC HEAT
 72-TA-03 TALWAR, AGRAWAL ZN,SE/ IN.SB ..THEORY/ PHONON DISPERSION
- 4.237 ZINC SILICON PHOSPHIDE ZN,SI,P2
 75-PO-01 POPLAVNON, TYNTEREY ZN,SI,P2 ..THEORY/ PHONON DISPERSION/ RIGID ION MODEL
- 4.238 ZINC SULFIDE ZN,S
 69-FE-01 FELDKAMP, VENKATARAMAN+ ZN,S ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES ..CONST.-@/ SIX-PARAMETER V
 69-MO-01 MONTGOMERY ZN,S/ DIAMOND/ SR.TI.O3 ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES
 69-VE-02 VETELINO, MITRA+ ZN,S ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES ..RIGID ION MODEL
 70-BE-04 BERGSMAN MG2.SN/ ZN,S ..EXPERIMENT/ TRIPLE AXIS SPECTROMETER/ PHONON DISPERSION RELATION
 70-BE-05 BERGSMAN ZN,S ..EXPERIMENT/ DISPERSION CURVES ..RIGID ION MODEL/ SHELL MODEL
 70-KU-03 KUNG, BALKANSKI+ ZN,S ..THEORY/ LATTICE DYNAMICS
 70-KU-04 KUNG, BALKANSKI+ ZN,S ..THEORY/ PHONON DISPERSION AND SPECTRUM/ TEN PARAMETER DEFORMED ION MODEL
 71-BA-05 BANERJEE, VARSHNI ZN,S/ GA.P/ SI.C ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMPERATURE
 71-FE-01 FELDKAMP, STEINMAN+ ZN,S ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING
 74-AL-02 ALTSHULER, VEKILOU+ THEORY-OF-SOLIDS/ ZN,S ..PHONON DISPERSION/ RIGID ION MODEL
 74-PA-04 PANDEY SI.C/ ZN,S ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..POLYTYPIC/ FORCE CONSTANT MODEL
 74-VA-01 VAGELATORS, WEHE+ ZN,S/ ZN,TE ..PHONON DISPERSION/ FREQUENCY DISTRIBUTION/ INELASTIC NEUTRON SCATTERING
 75-AL-02 ALTSHULER, VEKILOV+ SI/ GA,AS/ ZN,S ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL METH
- 4.239 ZINC TELLURIDE ZN,TE
 70-VE-02 VETELINO, MITRA+ ZN,TE ..DISPERSION RELATION, FREQUENCY SPECTRUM, DEBYE TEMPERATURE, MULTI PHONON INFRARED

73-TA-02	TALWAR, AGRAWAL	ZN,TE/ CD,TE ..CALCULATION/ SECOND-NEIGHBOR-IONIC MODEL
74-VA-01	VAGELATORS, WEHE+	ZN,S/ ZN,TE ..PHONON DISPERSION/ FREQUENCY DISTRIBUTION/ INELASTIC NEUTRON SCATTERING
4.240	ZIRCONIUM CARBIDE	ZR.C
72-SM-02	SMITH, WAKABAYASHI+	NB,C/ ZR,C/ TC/ ZR/ Y ..EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION
73-WE-01	WEBER	TI,C/ ZR,C/ HF,C ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..SUPERCONDUCTOR/ ST
73-WE-02	WEBER	TI,C/ ZR,C/ V,C/ NB,C/ TA,C/ U.C ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION/ FREQUE

5 ORGANIC COMPOUNDS

- 5, 1 ACENAPHTHENE C12.H10
70-LU-01 LUTY, JANIK+ ACENAPHTHENE ..EXPERIMENT/ THEORY/ FREQUENCY SPECTRUM/ LATTICE DYNAMICS
- 5, 2 ACETIC ACID C2.H4.O2
65-GO-01 GOLIKOV, ZHOKORSKJA+ C2.H6.O2/ H2.O/ C2.H4.O2/ C6.H6 ..EXPERIMENT/ LIQUID/ SOLID
67-AL-01 ALDRED, EDEN+ ACETIC ACID/ ALCOHOL ..MOLECULAR DYNAMICS/ LIQUID/ EXPERIMENT
67-AL-02 ALDRED, EDEN+ ACETIC ACID/ METHANOL ..EXPERIMENT/ TOF SPECTRUM/ QUASI-ELASTIC PEAK WIDTH
67-AL-03 ALDRED, EDEN+ ACETIC ACID/ METHANOL ..EXPERIMENT/ SUBSTITUTION OF DEUTERIUM AND FLUORINE
70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
- 5, 3 ACETONITRILE C.H3.C.N
71-ZE-01 ZEIDLER ACETONITRILE ..QUASIELASTIC SCATTERING/ LIQUID
- 5, 4 ACETYLENE C2.H2
64-VA-01 VAN-DINGENEN, NEVEDE-MEVERGNIES ACETYLENE/ AMMONIA/ METHANE ..TOTAL CROSS SECTION/ EXPERIMENT/ SOLID ..LON
67-VE-03 VERDAN METHANE/ ACETYLENE/ ETHYLENE ..EXPERIMENT/ ADSORBED MOLECULES
- 5, 5 ADAMANTANE C10.H16
67-ST-05 STOCKMEYER, STILLER ADAMANTANE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS/ SOLID/ FREQUENCY DISTRI
68-CH-01 CHEN, DVORAK HEXAMETHYLENETETRAMINE/ ADAMANTANE/ N.H4.CL ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS/ D
68-ST-04 STOCKMEYER, STILLER ADAMANTANE ..EXPERIMENT/ PHONON SPECTRUM/ FITTED BY CALCULATIONS
69-ST-02 STOCKMEYER, HOSSFELD+ ADAMANTANE ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..COMPUTER CALCULATION
75-TH-01 THOMAS ADAMANTANE/ HEXAMETHYLENETETRAMINE ..EXPERIMENT/ FREQUENCY SPECTRA/ 200-800 CM-1
- 5, 6 ALCOHOL
61-BR-03 BRUGLER ZR-H/ H2.O/ BENZENE/ PARAFFINE/ ALCOHOL ..SIGMA (E,E-PRIME,THETA)/ EXPERIMENT/ LIQUIDS/ TOF
63-SA-03 SAUNDERSON, RAINEY ALCOHOL ..LIQUID AND GAS/ EXPERIMENT
66-LA-01 LARON, BERGSTEDT ALCOHOL/ PENTANE ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ NEUTRON SPECTRA/ DIFFERENTIAL CROSS
66-LA-02 LARSSON, AMARAL+ ALCOHOL/ PENTANE ..EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION ..1
67-AL-01 ALDRED, EDEN+ ACETIC ACID/ ALCOHOL ..MOLECULAR DYNAMICS/ LIQUID/ EXPERIMENT
68-SA-04 SAMPSON, CARPENTER ALCOHOL/ MERCAPTAN ..EXPERIMENT/ MOLECULAR DYNAMICS
- 5, 7 ANTHRAQUINONE ANTHRAQUINONE
75-MI-01 MIYAZAKI, ITO ANTHRAQUINONE ..EXPERIMENT/ NEUTRON SCATTERING SPECTRA/ PHONON DENSITY CALCULATION

5. 8 ALPHA-AMINO-ISOBUTYRIC-ACID AAIA
72-DA-04 DAVIDOVIC, RATKOVIC+ TAURINE/ ALPHA-AMINO-ISOBUTYRIC-ACID ..EXPERIMENT/ VIBRATIONAL SPECTRUM
5. 9 ANILINE C6,H7,N
71-DA-01 DAY, SINCLAIR ZR-H/ H2.O/ C6.H7.N/ NA.N.H2 ..EXPERIMENT, TOF SPECTRA/ PULSED NEUTRON SOURCE
71-DA-02 DAY, SINCLAIR ZR-H/ H2.O/ SODAMIDE/ ANILINE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LINAC PULSED NEUTRON SOURCE
5. 10 ANNULENE
73-FI-01 FILIPPINI, GRAMACCIOLI+ NAPHTHALENE/ ANTHRACENE/ PHENANTHRACENE/ PYRENE/ ANNULENE ..THEORY/ LATTICE DYNAMIC
5. 11 ANTHRACENE C14,H10
67-PA-06 PAWLEY NAPHTHALENE/ ANTHRACENE ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMP./ DEBYE-WALL
67-PA-07 PAWLEY NAPHTHALENE/ ANTHRACENE ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ 6-EXP FORCE
70-LU-02 LUTZ, HAEIG ANTHRACENE ..THEORY/ EXPERIMENT/ SOLID ..COHERENT INELASTIC NEUTRON SCATTERING/ PHONON DISPERS
70-LU-03 LUTZ ANTHRACENE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRUM
73-FI-01 FILIPPINI, GRAMACCIOLI+ NAPHTHALENE/ ANTHRACENE/ PHENANTHRACENE/ PYRENE/ ANNULENE ..THEORY/ LATTICE DYNAMIC
73-GR-01 GRAMACCIOLI, SIMONETTA+ ANTHRACENE/ NAPHTHALENE/ BUTANOANNULENE ..THEORY/ AROMATIC HYDROCARBON/ VIBRATION
74-PA-10 PAWLEY, MIKA NAPHTHALENE/ ANTHRACENE/ SULPHUR ..THEORY/ PRESSURE EFFECT/ LATTICE DYNAMICS/ PHONON DISPERSI
5. 12 BENZENE C6,H6
61-BR-03 BRUGGER ZR-H/ H2.O/ BENZENE/ PARAFFINE/ ALCOHOL ..SIGMA (E,E-PRIME,THETA)/ EXPERIMENT/ LIQUIDS/ TOF
61-HE-02 HEINLOTH H2.O/ C6.H6/ C.H2.O2 ..SIGMA(E)/ EXPERIMENT/ GAS/ LIQUID/ SOLID/ KRIEGER-NELKIN MODEL ..TRANSMI
62-BO-01 BOFFI, MOLINARI+ BENZENE ..THEORY/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION ..SCATTERING CROSS SECTION/
62-RU-01 RUSH, TAYLOR+ N.H4.CL/ N.H4.I/ N.H4.F/ N.H4.BR/ BENZENE/ TOLUENE/ MESITYLENE/ XYLENE ..EXPERIMENT/ TOTAL C
62-ZE-01 ZEMLYANOV, CHERNOPLEKOV POLYETHYLENE/ BENZENE/ BIPHENYL ..EXPERIMENT/ MOLECULAR DYNAMICS
63-BO-01 BOFFI, MOLINARI+ C6.H6 ..SIGMA(E)/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ THEORY/ GAS/ MOLECULAR DYNAMICS
63-ZE-02 ZEMLYANOV, CHERNOPLEKOV BENZENE/ BIPHENYL/ POLYETHYLENE ..INELASTIC SCATTERING SPECTRA
64-GL-01 GLAESER, BECRUITS BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ SOLID/ LIQUID ..2ND MOMENT OF ENERGY TRANSFER
65-GL-02 GLAESER BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERIN LAW/ SIGMA (E,E-PRIME,TH
65-GL-03 GLAESER, EHRET+ C6.H6/ H2.O/ ZR-H ..SCATTERING LAW/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID ..20DC FOR
65-GO-01 GOLIKOV, ZHOKORSKJAJ+ C2.H6.O2/ H2.O/ C2.H4.O2/ C6.H6 ..EXPERIMENT/ LIQUID/ SOLID
65-HO-01 HOFMEYER BENZENE/ BIPHENYL/ TERPHENYL ..EXPERIMENT ..21DC-150DC 10X,23H DATA END IN GTMIN RTN.)
65-ZE-02 ZEMLYANOV, CHERNDLEKOV+ C6.H6 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ LIQUID ..290DK
66-AN-02 ANTONINI, PAOLETTI+ BENZENE/ BIPHENYL ..EXPERIMENT/ SOLID/ LIQUID/ SIGMA(E)
66-BO-01 BOFFI, MARSICO+ BENZENE ..SIGMA-TRANSPORT(E)/ SIGMA(E,E-PRIME,THETA)/ THEORY/ GAS/ LIQUID/ DIFFUSION PARAM
66-SC-02 SCHMIDT, SAAD BENZENE/ BIPHENYL/ TERPHENYL/ CYCLOHEXANE ..EXPERIMENT
66-BE-03 BEYSTER, BORGONOVIT+ C.H2/ C6.H6/ ZR-H ..EXPERIMENT
67-GE-01 GEE, ROBINSON BENZENE ..MOLECULAR DYNAMICS ..RAMAN SPECTRUM
67-NE-02 NEILL BENZENE ..SIGMA (E)/ EXPERIMENT
67-RU-01 RUSH BENZENE ..MOLECULAR DYNAMICS/ LIQUID/ SOLID/ EXPERIMENT/ NEUTRON SPECTRUM/ FREQUENCY SPECTRUM
68-AR-02 ARDENTE, CUNIBERTI+ BIPHENYL/ BENZENE ..CROSS SECTION EVALUATION/ MOLECULAR DYNAMICS/ GAS/ THEORY

68-BE-04 BEYSTER, BORGONOVII* C.H2/ ZR-H/ C6.H6 ..EXPERIMENT/ MOLECULAR DYNAMICS
 68-HE-01 HENRY, SIEBRAND BENZENE ..FREQUENCY SPECTRUM/ THEORY/ LIQUID/ MOLECULE DYNAMICS
 68-HO-02 HOLMRYD, NELIN BENZENE ..EXPERIMENT/ TOF ..DIFFUSIVE MOTION/ QUASI-ELASTIC
 68-MA-04 MARSDEN, MCMURRY C6.H6 ..SIGMA (E)/ SIGMA (E-E-PRIME)/ SCATTERING FUNCTION/ NEUTRON SPECTRUM/ THEORY/ GAS/
 68-NA-02 NARTEN BENZENE ..LIQUID/ EXPERIMENT/ MOLECULAR DYNAMICS ..X-RAY DIFFRACTION/ 25DC
 68-RO-01 ROSS, SZABO+ BENZENE/ H2.O ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID ..20DC FOR BE
 68-SP-01 SPREYAK, KOPPEL+ BENZENE ..THEORY/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ CROSS SECTION EVALUATION
 68-SP-02 SPREYAK, BORGONOVII* BENZENE ..SCATTERING FUNCTION/ LIQUID/ NEUTRON SPECTRUM/ SCATTERING THEORY ..ROOM TEMP
 68-TR-01 TREPADUS, BALLY+ BENZENE ..EXPERIMENT/ MOLECULAR DYNAMICS
 69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC
 69-MA-03 MARSDEN BENZENE ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING LAW
 69-RE-03 REYNOLDS, WHITE BENZENE ..EXPERIMENT/ TOF SPECTRUM/ MOLECULAR DYNAMICS
 70-GU-03 GUPTA, DEOPURA BENZENE ..EXPERIMENT/ FREQUENCY SPECTRUM
 70-LO-01 LOGAN, TREVINO+ BENZENE ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ..77.K TO 270.K
 72-WI-01 WINFIELD, ROSS C6.H6 ..EXPERIMENT/ TIME OF FLIGHT/ QUASIELASTIC SCATTERING ..MEAN INTERVAL BETWEEN JUMP
 73-BO-02 BONADEO, TADDEI BENZENE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION FUNCTION
 73-TA-01 TADDEI, BONADEO+ C6.H6 ..THEORY/ LATTICE DYNAMICS ..F AND G MATRIX METHOD

5. 13 BIPHENYL

C12.H10

62-ZE-01 ZEMLYANOV, CHERNOPLKOV POLYETHYLENE/ BENZENE/ BIPHENYL ..EXPERIMENT/ MOLECULAR DYNAMICS
 63-GI-01 GIASER BIPHENYL ..EXPERIMENT/ SCATTERING LAW/ MIXTURE OF BIPHENYL AND BIPHENYLOXYD
 63-ZE-02 ZEMLYANOV, CHERNOPLKOV BENZENE/ BIPHENYL/ POLYETHYLENE ..INELASTIC SCATTERING SPECTRA
 64-GL-01 GLAESER, BECRURTS BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ SOLID/ LIQUID ..2ND MOMENT OF ENERGY TRANSFER
 64-MO-01 MOSTOVOY, DIKAREV+ H2.O/ BIPHENYL ..FREQUENCY SPECTRUM/ EXPERIMENT
 65-GL-02 GLAESER BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERIN LAW/ SIGMA (E-E-PRIME,TH
 65-HO-01 HOFMEYER BENZENE/ BIPHENYL/ TERPHENYL ..EXPERIMENT ..21DC-150DC 10X.23H DATA END IN GTMIN RTN.)
 66-AN-02 ANTONINI, PAOLETTI+ BENZENE/ BIPHENYL ..EXPERIMENT/ SOLID/ LIQUID/ SIGMA(E)
 66-SC-02 SCHMIDT, SAAD BENZENE/ BIPHENYL/ TERPHENYL/ CYCLOHEXANE ..EXPERIMENT
 67-NE-01 NEILL, ANTUNEZ+ BIPHENYL ..EXPERIMENT
 68-AR-02 ARDENTE, CUNIBERTI+ BIPHENYL/ BENZENE ..CROSS SECTION EVALUATION/ MOLECULAR DYNAMICS/ GAS/ THEORY
 68-BE-03 BEYSTER, BORGONOVII* BIPHENYL/ ZR-H/ U.O2 ..LATTICE DYNAMICS/ SCATTERING FUNCTION
 69-SP-02 SPREYAK, KOPPEL BIPHENYL ..THEORY/ SCATTERING LAW/ SIGMA (E)/ LIQUID

5. 14 BIPHYLE

64-GL-01 GLAESER, BECRURTS BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ SOLID/ LIQUID ..2ND MOMENT OF ENERGY TRANSFER
 65-GL-02 GLAESER BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERIN LAW/ SIGMA (E-E-PRIME,TH

5. 15 BUTANE

C4.H10

68-HO-03 HOYLAND C4.H10 ..THEORY/ MOLECULE DYNAMICS

5. 16 BUTANOANNULENE

BUTANOANNULENE

73-GR-01 GRAMACCIOLI, SIMONETTA+ ANTHRACENE/ NAPHTHALENE/ BUTANOANNULENE ..THEORY/ AROMATIC HYDROCARBON/ VIBRATION

5. 17 BUTANOL
 C4.H10.O
- 70-BA-03 BATA, JOVIC C4.H10.O ..EXPERIMENT/ LIQUID-GAS PHASE
 72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM
 74-AM-01 AMARAL, FULFARO+ BUTANOL ..EXPERIMENT/ TRANSMISSION/ MOLECULAR DYNAMICS
 75-AM-01 AMARAL, FULFARO+ BUTANOL ..EXPERIMENT/ TOTAL CROSS SECTION/ TEMPERATURE EFFECT
5. 18 BUTYRIC ACID
 BUTYRIC ACID
- 72-DA-05 DAVIDOVIC, RATKOVIC+ TAURINE/ BUTYRIC ACID ..INELASTIC NEUTRON SCATTERING/ INCOHERENT
5. 19 CARBOXYLIC ACID
 CARBOXYLIC ACID
- 71-LU-02 LURIE, DANNER CARBOXYLIC ACID ..VIBRATIONAL SPECTRA/ LIQUID DYNAMICS/ DISPERSION RELATION
5. 20 CHLOROBENZENE
 C6.H5.CL
- 68-O--01 O-REILLY C.Cl4/ C.H.Cl3/ C6.H5.Cl/ H.F/ H.Cl/ N.H3/ H2.O ..CORRELATION FUNCTION/ MOLECULAR ROTATIONS/ LIQU
 69-RE-04 REYNOLDS, WHITE CHLOROBENZENE
5. 21 CHLOROETHANE
 C2.H5.CL
- 71-BR-01 BRIER, HIGGINS+ CHLOROETHANE ..THEORY/ EXPERIMENT/ LIQUID/ TIME, OF, FLIGHT TECHNIQUES
5. 22 CHLORONAPHTHALENE
 C10.H7.CL
- 68-EI-01 EISENTHAL, DOWLEY+ CHLORONAPHTHALENE ..EXPERIMENT/ LIQUID ..TWO-PHONON SPECTRUM
5. 23 CYANAMIDE
 C.H2.N2
- 68-DU-01 DURIG, WALKER+ CYANAMIDE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS
5. 24 CYCLOHEXANE
 C6.H12
- 63-BE-01 BECKA CYCLOHEXANE/ DIMETHYLBUTANE/ DIAZOBICYCLOOCTANE ..EXPERIMENT/ TOF
 65-BR-04 BRUGGER, STRONG+ CYCLOHEXANE ..EXPERIMENT
 65-DE-02 DE-GRAAF CYCLOHEXANE ..INELASTIC SCATTERING SPECTRA/ LIQUID AND SOLID
 66-SC-02 SCHMIDT, SAAD BENZENE/ BIPHENYL/ TERPHENYL/ CYCLOHEXANE ..EXPERIMENT
 68-TA-03 TARINA CYCLOHEXANE ..EXPERIMENT/ SIGMA(E)/ DIFFERENTIAL CROSS SECTION ..SOLID-LIQUID TRANSITION/ -20DC
 69-DE-01 DE-GRAAF CYCLOHEXANE ..LIQUID/ SOLID/ EXPERIMENT/ TIME OF FLIGHT ..HINDERED ROTATION OF RIGID MOLECULE/
 69-FI-01 FISCHER BENZENE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC
 70-DI-01 DIACONESCU, NAHORNIAK+ METHANOL/ CYCLOHEXANE ..INELASTIC SCATTERING SPECTRA
 70-PI-01 PICKETT, STRAUSS CYCLOHEXANE ..EXPERIMENT/ THEORY/ MOLECULAR VIBRATION/ INTERATOMIC FORCE CONSTANT..FG-MET

5. 25 CYCLOHEXANOL
C6.H12.O
69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC
70-DE-02 DE-MUL, BERGMAN CYCLOHEXANOL ..EXPERIMENT/ TOF/ LIQUID/ QUASI-ELASTIC PEAK ..JUMP-DIFFUSION/ INCOHERENT NE
72-DE-04 DE-MUL CYCLOHEXANOL ..CRYSTAL/ MOLECULAR ROTATION
5. 26 DIAZOBICYCLOOCTANE
63-BE-01 BECKA CYCLOHEXANE/ DIMETHYLBUTANE/ DIAZOBICYCLOOCTANE ..EXPERIMENT/ TOF
5. 27 DIBROMOBENZENE
C6.H4.BR2
72-RE-02 REYNOLDS, KJEMS+ C6.H4.CL2/ C6.H4.BR2 ..NEUTRON SPECTRUM/ THEORY/ EXPERIMENT/ INELASTIC NEUTRON SCATTERING
5. 28 DICALCIUM LEAD PROPIONATE
(C3.H5.O2)6.CA2.PB
72-OU-01 @UILICHINI, POULET DICALCIUM LEAD PROPIONATE ..EXPERIMENT/ FREQUENCY DISTRIBUTION FUNCTION ..PHASE TRANSIT
75-DI-03 DIMIC, OSREDKAR DICALCIUM LEAD PROPIONATE ..EXPERIMENT/ SOLID/ LIQUID/ ROTATING CRYSTAL SPECTROMETER/ DEBY
5. 29 DICALCIUM STRONTIUM PROPIONATE CA2.SR.(C3.H5.O2)6
73-VA-01 VAN-TRICHT, DE-MUL+ DICALCIUM STRONTIUM PROPIONATE ..EXPERIMENT/ VIBRATION SPECTRA/ PARA-ELECTRIC PHASE TR
5. 30 DICHLOROETHANE
DICHLOROETHANE
73-OZ-01 OZORA, ITO+ DICHLOROETHANE ..EXPERIMENT/ FREQUENCY SPECTRUM/ PHASE TRANSITION
5. 31 DICHLOROBENZENE
C6.H4.CL2
72-RE-02 REYNOLDS, KJEMS+ C6.H4.CL2/ C6.H4.BR2 ..NEUTRON SPECTRUM/ THEORY/ EXPERIMENT/ INELASTIC NEUTRON SCATTERING
72-RE-03 REYNOLDS, KJEMS+ C6.H4.CL2 ..EXPERIMENT/ PHONON DISPERSION/ TRICLINIC PHASE/ 295K TO 90K
74-RE-01 REYNOLDS, KJEMS+ DICHLOROBENZENE ..EXPERIMENT/ CALCULATION/ PHONON DISPERSION
5. 32 DIMETHYLACETYLENE
62-RU-02 RUSH, SAFFORD+ N.H4.P.F6/ (N.H4)2.S2.O8/ (N.H4)2.CR.O4/ N.H4.S.O3.F/ DIMETHYLACETYLENE ..EXPERIMENT/ MOLEC
64-JA-01 JANIK, JANIK+ C.H4/ C.H3.I/ DIMETHYLACETYLENE/ N.H4.CL.O4/ N.H4.P.F6/ H3.O.CL.O4/ DIMETHOXYAZOXYBENZENE
5. 33 DIMETHYLBUTANE
63-BE-01 BECKA CYCLOHEXANE/ DIMETHYLBUTANE/ DIAZOBICYCLOOCTANE ..EXPERIMENT/ TOF
5. 34 DIMETHYLSULPHONE

- 69-SA-01 SAFFORD, SCHAFFER+ DIMETHYLSULPHOXIDE/ DIMETHYLSULPHONE ..SIGMA (E,E-PRIME,THETA)/ EXPERIMENT/ LIQUID
 69-SA-04 SAFFORD, SCHAFFER+ DIMETHYLSULPHOXIDE/ DIMETHYLSULPHONE ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS/ SEL
5. 35 DIMETHYLSULPHOXIDE
- 69-SA-01 SAFFORD, SCHAFFER+ DIMETHYLSULPHOXIDE/ DIMETHYLSULPHONE ..SIGMA (E,E-PRIME,THETA)/ EXPERIMENT/ LIQUID
 69-SA-04 SAFFORD, SCHAFFER+ DIMETHYLSULPHOXIDE/ DIMETHYLSULPHONE ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS/ SEL
5. 36 DNA
 DNA
- 74-FU-02 FULFARO, WALDER+ DNA ..EXPERIMENT/ TOTAL CROSS SECTION/ WATER IN DNA AND DNA
5. 37 DODECANE
 C12.H26
- 70-EG-01 EGELSTAFF, HARRIS PENTANE/ HEPTANE/ DODECANE ..EXPERIMENT/ QUASI-ELASTIC/ DIFFUSION CONSTANT
5. 38 EICOSANE
 C20.H42
- 72-BA-07 BARNES NONADECANE/ EICOSANE ..EXPERIMENT/ QUASI-ELASTIC PEAK/ ROTATIONAL DIFFUSION/ PLASTIC CRYSTAL
5. 39 ETHANE
 C2.H6
- 65-GA-01 GANNON, MCMURRY C.H4/ C2.H6/ COMPUTER-CODES ..THEORY/ MOLCULAR DYNAMICS/ SCATTERING FUNCTION
 65-ST-05 STRAKER C2.H6 ..SCATTERING LAW
 65-ST-06 STRAKER, KING+ ETHANE ..EXPERIMENT/ PRESSURIZED ETHANE
 66-BR-05 BRUGGER METHANE/ ETHANE/ AL/ NA/ PB/ AR ..COMPILATION/ SCATTERING FUNCTION
 67-RU-02 RUSH METHYLCHLOROFORM/ PENTANE/ ETHANE ..COLD-NEUTRON/ FREQUENCY SPECTRUM
 67-ST-06 STRONG, BRUGGER ETHANE ..MOLECULAR DYNAMICS/ GAS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ..ROOM TEMPERATURE
 68-BU-02 BULAVIN, VORONEL+ ETHANE ..EXPERIMENT/ QUASI-ELASTIC/ LIQUID/ GAS
 75-OL-01 OLSSON, LARSSON ETHANE ..EXPERIMENT/ ROTATIONAL-DIFFUSIVE MOTION
5. 40 ETHANEDIOL
- 72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM
5. 41 ETHANOL
 C2.H5.O
- 72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM
5. 42 ETHYL ETHER
 (C2.H5)2.O
- 65-BA-03 BATA, KOSZO+ ETHYL ETHER ..INELASTIC SCATTERING SPECTRA

5. 43 ETHYL CHLORIDE
C2.H5.CL
70-ST-02 STRONG, BRUGGER+ ETHYL CHLORIDE ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ LIQUID/ SOLID
5. 44 ETHYLENE
C2.H4
63-BA-02 BALLY, TARINA+ H2/ ETHYLENE ..EXPERIMENT
65-BA-02 BALLY, TODIREANU+ ETHYLENE ..EXPERIMENT/ SCATTERING LAW ..GAS TARGET/ TRIPLE-AXIS SPECTROMETER
67-BA-02 BALLY, TODIREANU+ METHANE/ ETHYLENE ..GAS/ EXPERIMENT
67-VE-03 VERDAN METHANE/ ACETYLENE/ ETHYLENE ..EXPERIMENT/ ADSORBED MOLECULES
5. 45 ETHYLENE GLYCOL
C2.H6.O2
65-60-01 GOLIKOV, ZHOKORSKJA+ C2.H6.O2/ H2.O/ C2.H4.O2/ C6.H6 ..EXPERIMENT/ LIQUID/ SOLID
5. 46 FLUORINATED CYCLOHEXANE
72-LE-01 LEADBETTER, LITCHINSKY+ FLUORINATED CYCLOHEXANE ..EXPERIMENT/ MOLECULAR ROTATION/ QUASI-ELASTIC SCATTERING
5. 47 FORMIC ACID
C.H2.O2
61-HE-02 HEINLOTH H2.O/ C6.H6/ C.H2.O2 ..SIGMA(E)/ EXPERIMENT/ GAS/ LIQUID/ SOLID/ KRIEGER-NELKIN MODEL ..TRANSMI
70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
5. 48 GLYCELINE
C3.H8.O3
63-LA-01 LARSSON, DAHLBORG D2.O/ GLYCELINE/ H2.O ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION/ TUF ..278, 295, 368.
63-RA-02 RAPEANU GLYCELINE ..EXPERIMENT/ QUASI-ELASTIC SCATTERING
64-LA-01 LARSSON, DAHLBORG H2.O/ D2.O/ PENTANE/ GLYCELINE ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION
68-RA-06 RAPEANU GLYCELINE ..EXPERIMENT/ QUASI-ELASTIC SCATTERING
70-BI-02 BIRR GLYCELINE ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ DIFFUSION CONSTANT
5. 49 GLYCINE
GLYCINE
70-GU-05 GUPTA, SINGH GLYCINE ..EXPEMIMENT/ FREQUENCY SPECTRUM
5. 50 HEPTANE
C7.H16
70-EG-01 EGELSTAFF, HARRIS PENTANE/ HEPTANE/ DODECANE ..EXPERIMENT/ QUASI-ELASTIC/ DIFFUSION CONSTANT
73-LO-02 LOGAN, DANNER+ PENTANE/ HEXANE/ HEPTANE/ OCTANE ..EXPERIMENT/ INCOHERENT/ T-O-F SPECTRA/ PHONON DISPERSION
5. 51 HEXAMETHYLBENZENE
C12.H18

- 64-RU-01 RUSH, TAYLOR HEXAMETHYLBENZENE/ AMMONIUM PERCHLORATE ..EXPERIMENT/ ROTATIONAL MOTION
 66-RU-01 RUSH, TAYLOR HEXAMETHYLBENZENE ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ..LOW-FREQUENCY MOTION/ NEAR 11
 69-HA-02 HAMILTON, EDMONDS+ HEXAMETHYLBENZENE ..EXPERIMENT/ TOF SPECTRUM/ NEUTRON DIFFRACTION
5. 52 HEXAMETHYLENETETRAMINE C6.H12.N4
 62-BE-01 BECKA HEXAMETHYLENETETRAMINE ..EXPERIMENT/ NEUTRON SPECTROMETRY ..80DK/ 300DK/
 64-CO-01 COCHRAN, PAWLEY HEXAMETHYLENETETRAMINE ..THEORY/ LATTICE DYNAMICS/ DISPERSION/ FREQUENCY DISTRIBUTION ..X-
 68-CH-01 CHEN, DVORAK HEXAMETHYLENETETRAMINE/ ADAMANTANE/ N.H4.CL ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS/ D
 68-PO-02 POWELL HEXAMETHYLENETETRAMINE ..EXPERIMENT/ CONST.- ω / DISPERSION CURVES/ FREQUENCY DISTRIBUTION ..296D
 69-PA-03 PAWLEY C6.H12.N4 ..THEORY/ MODEL FITTING/ LATTICE DYNAMICS
 70-DO-03 DOLLING, POWELL HEXAMETHYLENETETRAMINE ..EXPERIMENT/ PHONON DISPERSION/ DHMT/ MODEL FITTING/ PHONON DENSIT
 70-PO-01 POLLING, POWELL HEXAMETHYLENETETRAMINE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODEL FITTING
 70-RA-01 RAFIZADEH, YIP HEXAMETHYLENETETRAMINE ..THEORY/ LATTICE DYNAMICS
 71-MC-02 McMULLAN, HOGAN HEXAMETHYLENETETRAMINE ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE/ SOLID/ MOLECULAR CRY
 73-DO-01 DOLLING, PAWLEY+ HEXAMETHYLENETETRAMINE ..THEORY/ PHONON DISPERSION/ AS MODEL TENSOR FORCE MODEL
 75-TH-01 THOMAS ADAMANTANE/ HEXAMETHYLENETETRAMINE ..EXPERIMENT/ FREQUENCY SPECTRA/ 200-800 CM-1
5. 53 HEXANE C6.H14
 73-LO-02 LOGAN, DANNER+ PENTANE/ HEXANE/ HEPTANE/ OCTANE ..EXPERIMENT/ INCOHERENT/ I-O-F SPECTRA/ PHONON DISPERSION
5. 54 IODOFORM C.H.I3
 73-NE-01 NETO, OEHLER+ IODOFORM ..THEORY/ EXPERIMENT/ DISPERSION RELATION/ LATTICE VIBRATION ..F.G-MATRIX METHOD/ I
5. 55 MALONIC ACID C3.H4.O4
 70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
5. 56 MERCAPTAN C2.H6.S
 68-SA-04 SAMPSON, CARPENTER ALCOHOL/ MERCAPTAN ..EXPERIMENT/ MOLECULAR DYNAMICS
5. 57 METHANE C.H4
 41-SA-01 SACHS, TELLER NEUTRON-SCATTERING-IN-FLUIDS/ H2/ C.H4/ N.H3/ H2.O ..SCATTERING THEORY ..MOLECULAR GASES
 49-ME-01 MELKONIAN C.H4 ..SIGMA(E)/ EXPERIMENT
 51-ME-01 MESSIAH H/ C.H4 ..THEORY/ SCATTERING THEORY ..ROOM TEMP.
 52-PO-01 POPE C.H4/ C.F4 ..MOLECULAR DYNAMICS/ THEORY
 56-ZE-02 ZEMACH, GLAUBER METHANE ..SIGMA (THETA,E)/ THEORY/ GAS
 61-GR-01 GRIFFING C.H4 ..THEORY/ MOLECULAR DYNAMICS/ GAS/ DIFFERENTIAL CROSS SECTION
 61-RA-02 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ SCATTERING FUNCTION
 61-RA-04 RANDOLPH, BRUGGER+ METHANE ..GAS/ SCATTERING LAW/ EXPERIMENT/ TOF/ MOLECULE DYNAMICS ..ROOM TEMP.
 62-BR-02 BRUGGER METHANE/ H2.O/ D2.O/ PROPANE ..THEORY/ EXPERIMENT/ SCATTERING FUNCTION
 62-GR-01 GRIFFING METHANE ..GAS/ EXPERIMENT/ CALCULATION

62-MC-01 MCMURRY, GANNON+ METHANE/ PROPANE ..THEORY/ GAS/ DIFFERENTIAL CROSS SECTION
62-ST-01 STILLER, HAUTECLER METHANE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LIQUID
63-GR-01 GRIFFING C.H4 ..SIGMA(E,E-PRIME,THETA)/ SCATTERING FUNCTION/ THEORY/ GAS/ CROSS SECTION
63-HA-03 HAUTECLER, STILLER C.H4 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ MOLECULAR DYNAMICS
63-JA-01 JANIK C.H4/ N.H4.I/ N.H4.CL/ N.H4.BR/ N.H4.S.O3.F ..SIGMA(E)/ SIGMA(E-PRIME,THETA)/ EXPERIMENT/ THE
63-JA-02 JANIK, JANIK+ C.H4/ N.H3/ H2.S/ H2.O ..SIGMA(E)/ EXPERIMENT/ LIQUID
63-RO-01 ROGALSKA METHANE ..SIGMA(E)/ EXPERIMENT/ LIQUID ..-156DC/ 0.0057 TO 0.101EV
63-RO-02 ROGALSKA METHANE ..EXPERIMENT/ TOTAL SCATTERING CROSS SECTION VS. NEUTRON ENERGY/ LIQUID STATE
63-ST-01 STILLER, HAUTECLER METHANE ..SOLID/ EXPERIMENT
63-WE-01 WEBB C.H4/ N.H3/ H2 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ GAS ..ROOM TEMPERATURE
64-BR-05 BRUGGER, RAINEY+ C.H4 ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION
64-DO-02 DORNER, STILLER METHANE ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ..6.5DK/ BE DETECTOR METHOD
64-JA-01 JANIK, JANIK+ C.H4/ C.H3.I/ DIMETHYLACETYLENE/ N.H4.CL.O4/ N.H4.P.F6/ H3.O.CL.O4/ DIMETHOXYAZOXYBENZENE
64-OT-01 OTNES, MELLOR+ C.H4 ..EXPERIMENT/ LIQUID
64-VA-01 VAN-DJINGENEN, NEVEDE-MEVERGNIES ACETYLENE/ AMMONIA/ METHANE ..TOTAL CROSS SECTION/ EXPERIMENT/ SOLID ..LON
64-WH-01 WHITTEMORE C.H4/ H ..EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS ..NEUTRON SPECTRA/ TOTAL CROSS SECTION
65-DA-02 DASANNACHARYA, VENKATARAMAN+ C.H4 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ LIQUID ..E=4.87 MILLI-V/ 97.5DK
65-DO-06 DORNER, STILLER C.H4 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ SOLID/ MOLECULAR DYNAMICS
65-GA-01 GANNON, MCMURRY C.H4/ C2.H6/ COMPUTER-CODES ..THEORY/ MOLCULAR DYNAMICS/ SCATTERING FUNCTION
65-GR-01 GRIFFING C.H4 ..THEORY/ LIQUID ..LANGEVIN EQUATION/ COMPARED WITH EXPERIMENT
65-GR-02 GRIFFING METHANE ..THEORY/ LIQUID METHANE
65-GR-03 GRIFFING METHANE ..GAS DYNAMICS/ C.D4
65-HA-03 HARKER, BRUGGER METHANE ..SOLID/ LIQUID/ GAS/ SCATTERING LAW/ EXPERIMENT/ TOF/ MOLECULAR DYNAMICS ..125DK/
65-RO-01 ROGALSKA METHANE ..EXPERIMENT/ SOLID/ LIQUID/ TOTAL CROSS SECTION ..105DK/ 80DK/ 1.5MEV-4.5MEV
65-WH-01 WHITTEMORE POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI
66-BR-05 BRUGGER METHANE/ ETHANE/ AL/ NA/ PB/ AR ..COMPILATION/ SCATTERING FUNCTION
66-DO-04 DORNER, STILLER C.H4 ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ SOLID ..6.5DK/ 2.7DK/ INVERSE-FILTER-METHOD
66-DO-05 DORNER, STILLER C.H4 ..EXPERIMENT/ 6.5, 2.7, 18DK/ INVERTED FILTER METHOD
66-HA-01 HARKER METHANE ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ SOLID ..5DK, 9DK, 18DK, 22DK/ E=34.7MV, THETA=48,
66-KO-05 KOSALY, SOLT C.H4/ N.H4.I ..THEORY/ DIFFERENTIAL CROSS SECTION ..86DK FOR C.H4/ ROOM TEMP. FOR N.H4.I
66-SI-03 SINHA, VENKATARAMAN NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..MOLECULAR DYNAMICS ..DIFFERENTIAL CROSS SECTIO
66-VE-01 VENKATARAMAN, DASANNACHARYA+ METHANE ..LIQUID/ EXPERIMENT/ MOLECULAR DYNAMICS/ TOF ..COHERENT
66-VE-03 VENKATARAMAN, RAO+ AMMONIA/ METHANE ..THEORY/ CALCULATION/ CROSS SECTION/ GAS PHASE
66-WE-01 WEST, BRUGGER+ METHANE ..SCATTERING LAW/ EXPERIMENT/ THEORY/ GAS ..306DK/ C.D4
66-WE-02 WEST, BRUGGER+ C.H4 ..EXPERIMENT/ SCATTERING FUNCTION/ THEORY/ GAS ..306DK/ C.D4
67-AG-02 AGRAWAL, YIP C.H4 ..THEORY/ LIQUID/ CROSS SECTION EVALUATION
67-BA-01 BAJOREK, NATKANIEC+ METHANE ..ETHYLENE ..GAS/ SOLID/ CRYSTAL SPECTROMETER
67-BA-02 BALLY, TODIREANU+ METHANE/ ETHYLENE ..GAS/ EXPERIMENT
67-DA-02 DASANNACHARYA, VENKATARAMAN C.H4 ..CROSS SECTION EVALUATION/ LIQUID/ EXPERIMENT/ DIFFUSION PARAMETER/ FREQ
67-HA-01 HARKER, BRUGGER METHANE ..EXPERIMENT/ SOLID/ TOF/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..5DK/ 9.1DK/ 18
67-RA-08 RAO, VENKATARAMAN+ C.H4 ..THEORY/ LIQUID ..COMPARED WITH EXPERIMENT
67-SE-01 SEARS METHANE ..THEORY/ LIQUID ..COMPARED WITH EXPERIMENT
67-SO-01 SOLT METHANE ..MOLECULAR DYNAMICS/ SCATTERING FUNCTION/ SOLID
67-VE-01 VENKATARAMAN, DASANNACHARYA+ METHANE ..LIQUID/ EXPERIMENT/ THEORY ..COHERENT EFFECT
67-VE-03 VERDAN METHANE/ ACETYLENE/ ETHYLENE ..EXPERIMENT/ ADSORBED MOLECULES
67-WE-01 WEBB METHANE/ AMMONIA ..GAS/ EXPERIMENT/ NEUTRON SPECTRUM ..20DK
68-AG-01 AGRAWAL, YIP C.H4/ H.CL/ N.H3 ..GAS/ THEORY/ CORRELATION FUNCTION ..INCOHERENT/ INTERMEDIATE SCATTERING FU
68-AG-02 AGRAWAL, DESAI+ NEUTRON-SCATTERING-IN-FLUIDS/ AR/ NA/ PB/ METHANE ..THEORY ..MODEL CALCULATION
68-BA-01 BAJOREK, NATKANIEC+ C.H4 ..EXPERIMENT/ GAS/ SOLID/ MOLECULAR DYNAMICS ..TOF METHOD/ IFR PULSED REACTOR, DU
68-CA-03 CARPENTER, LURIE C2.F6/ C.H4 ..EXPERIMENT/ GAS/ SCATTERING FUNCTION
68-ED-01 EDER, EGELSTAFF METHANE ..EXPERIMENT/ SOLID/ LIQUID/ THEORY/ MOLECULAR DYNAMICS ..METHANE IN ARGON
68-FU-01 FULINSKI, ZGIERSKI METHANE ..EXPERIMENT/ GAS

- 68-JA-02 JANIK C,H4/ H2,O/ N,H3/ LI2,S,O4,H2,O/ H3,O,N,O3/ C,H3,I ..EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR
 68-SK-01 SKOELD METHANE ..SCATTERING FUNCTION/ SOLID/ MOLECULAR DYNAMICS/ THEORY ..22.IDK/ ORIENTATIONAL JUMP D
 69-FU-01 FULINSKI, JANIK+ METHANE ..THEORY/ MOLECULAR INTERACTION
 69-JA-03 JANIK, OTNES+ METHANE ..EXPERIMENT/ SPECTRUM AGAINST WAVELENGTH/ SOLID
 69-JA-04 JANIK, OTNES+ C,H4 ..EXPERIMENT/ TOF SPECTRA
 70-BA-01 BANSAL, KOTHARI+ METHANE ..THEORY/ SOLID/ LATTICE VIBRATION/ FREQUENCY DISTRIBUTION
 70-KA-02 KAPULLA, GLAESER C,H4 ..EXPERIMENT
 71-HA-02 HAMA, NAKAMURA NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ MOLECULE/ GAS/ ROTATIONAL CORRELATION/ CROS
 71-PR-02 PRESS, DORNER+ C,H4 ..EXPERIMENT/ SOLID C,D4/ PHONON DISPERSION
 71-PR-03 PRESS C,H4 ..EXPERIMENT/ SOLIDS/ LATTICE DYNAMICS/ DISPERSION RELATION/ MOLECULARVIBRATIONS
 71-RA-03 RAO, DASAUNACHARYA+ METHANE ..MULTIPLE SCATTERING/ CALCULATION/ CORRECTION
 71-TI-01 TIITTA, TUNKELO METHANE ..LIQUID/ MULTIPLE SCATTERING
 72-HU-01 HULLER, PRESS C,H4 ..CRITICAL SCATTERING/ C,D4
 72-IN-01 INOUE, OTOMO+ METHANE ..NEUTRON SPECTRA
 72-KA-07 KAPULLA C,H4 ..EXPERIMENT/ SOLID/ ROTATING CRYSTAL SPECTROMETER/ SIGMA (E, E-PRIME,THETA)
 72-KA-08 KAPULLA, GLAESER METHANE ..EXPERIMENT/ SOLID METHANE/ SMALL ENERGY PEAKS
 72-TI-01 TIITTA, TUNKELO METHANE ..MULTIPLE SCATTERING
 72-WA-03 WASIUTYNSKI, LUTY C,H4 ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..SP
 73-HA-01 HAMA, MIYAGI METHANE ..THEORY/ NUCLEA SPIN CORRELATION EFFECT/ ZEMACH-GLAUBER APPROXIMATION
 74-OL-01 OLSSON, LARSSON C,H4/ AR ..NEUTRON SCATTERING/ DIFFUSION CONSTANT
 74-RA-05 RAO, MURTHY METHANE ..EXPERIMENT/ X-RAY/ STRUCTURE FACTOR/ DIRECT CORRELATION FUNCTION
 75-KA-01 KAHN C,H4 ..INELASTIC NEUTRON SCATTERING/ LOW TEMPERATURE/ EXPERIMENT
- 5, 58 METHANETELLUROL C,H4,TE
- 72-SI-09 SINK, HARVEY C,H4,TE ..EXPERIMENT ..INFRARED AND RAMAN SPECTRA
- 5, 59 METHANOL C,H4,O
- 67-AL-02 ALDRED, EDEN+ ACETIC ACID/ METHANOL ..EXPERIMENT/ TOF SPECTRUM/ @UASI-ELASTIC PEAK WIDTH
 67-AL-03 ALDRED, EDEN+ ACETIC ACID/ METHANOL ..EXPERIMENT/ SUBSTITUTION OF DEUTERIUM AND FLUORINE
 69-SA-06 SAMPSON, CARPENTER METHANOL/ METHYL MERCAPTAN ..INELASTIC SCATTERING SPECTRA
 70-DI-01 DIACONESCU, NAHORNIAK+ METHANOL/ CYCLOHEXANE ..INELASTIC SCATTERING SPECTRA
 71-DE-02 DEMPSTER, ZERBI METHANOL ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS
 72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM
 72-RO-02 RODRIGUEZ, DO-AMARAL+ METHANOL ..EXPERIMENT/ @UASIELASTIC SCATTERING/ MOLECULAR MOTION/ DIFFUSION
- 5, 60 METHOXYBENZYLIDENE-BUTYLANILINE MBBA
- 72-DI-02 DIMIC, BARBIC+ MBBA/ LIQUID-CRYSTAL ..INCOHERENT @UASIELASTIC SCATTERING/ DIFFUSION CONSTANT
- 5, 61 METHYL FLUORIDE C,H3,F
- 74-MA-01 MALM, DANNER+ C,H3,I/ C,H3,F/ C,H3,CL ..TIME-FLIGHT-SPECTRA
- 5, 62 METHYL IODIDE C,H3,I

64-JA-01 JANIK, JANIK+ C.H4/ C.H3.I/ DIMETHYLACETYLENE/ N.H4.CL.O4/ N.H4.P.F6/ H3.O.CL.O4/ DIMETHOXYAZOXYBENZENE
 66-BA-01 BAJOREK, JANIK+ METHYL IODIDE ..MOLECULAR DYNAMICS/ EXPERIMENT
 74-MA-01 MALM, DANNER+ C.H3.I/ C.H3.F/ C.H3.CL ..TIME-FLIGHT-SPECTRA

5. 63 METHYL CHLORIDE C.H3,CL

74-MA-01 MALM, DANNER+ C.H3.I/ C.H3.F/ C.H3.CL ..TIME-FLIGHT-SPECTRA

5. 64 METHYLCHLOROFORM METHYLCHOROFORM

67-RU-02 RUSH METHYLCHLOROFORM/ PENTANE/ ETHANE ..COLD-NEUTRON/ FREQUENCY SPECTRUM

5. 65 METHYLMERCAPTAN C.H3.S.H

69-SA-06 SAMPSON, CARPENTER METHANOL/ METHYLMERCAPTAN ..INELASTIC SCATTERING SPECTRA

5. 66 METHYLENE C.H2

57-KR-01 KRIEGER, NELKIN NEUTRON-SCATTERING-IN-FLUIDS/ C.H2/ H2.O ..SCATTERING THEORY ..MOLECULE
 65-YO-01 YOUNG, KOPPEL BE/ C/ H2.O/ D2.O/ C.H2/ H2/ D2 ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
 67-BE-03 BEYSTER, BORGONOVI+ C.H2/ C6.H6/ ZR-H ..EXPERIMENT
 68-BE-04 BEYSTER, BORGONOVI+ C.H2/ ZR-H/ C6.H6 ..EXPERIMENT/ MOLECULAR DYNAMICS
 68-HE-02 HERDADE METHYLENE ..EXPERIMENT/ SIGMA(E) ..METHYL GROUPS IN ORGANIC COMPOUNDS

5. 67 METHYLENE CHLORIDE C.H2.CL2

72-BR-01 BRIER, HIGGINS C.H2.CL2 ..EXPERIMENT/ MOLECULAR LIQUID/ TOF SPECTRA/ MODEL ANALYSIS

5. 68 METHYLZINC BOROHYDRIDE C.H3.ZN.B.H4

73-NI-01 NIBLER, COOK C.H3.ZN.B.H4 ..EXPERIMENT/ SOLID/ LATTICE VIBRATION ..F.G-MATRIX METHOD/ INFRARED AND RAMAN S

5. 69 NAPHTHALENE C10.H8

67-PA-06 PAWLEY NAPHTHALENE/ ANTHRACENE ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMP./ DEBYE-WALL
 67-PA-07 PAWLEY NAPHTHALENE/ ANTHRACENE ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ 6-EXP FORCE
 69-PA-04 PAWLEY, YEATS NAPHTHALENE ..EXPERIMENT/ PHONON DISPERSION/ DEUTERATED SAMPLE
 70-PA-07 PAWLEY, CYVIN NAPHTHALENE ..THEORY/ DISPERSION RELATION/ MOLECULAR DYNAMICS/ SOLID
 71-PA-03 PAWLEY, REYNOLDS+ NAPHTHALENE ..THEORY/ POLYCRYSTAL/ LATTICE DYNAMICS
 73-FI-01 FILIPPINI, GRAMACCIOLI+ NAPHTHALENE/ ANTHRACENE/ PHENANTHRACENE/ PYRENE/ ANNULENE ..THEORY/ LATTICE DYNAMIC
 73-GR-01 GRAMACCIOLI, SIMONETTA+ ANTHRACENE/ NAPHTHALENE/ BUTANOANNULENE ..THEORY/ AROMATIC HYDROCARBON/ VIBRATION
 74-PA-10 PAWLEY, MIKA NAPHTHALENE/ ANTHRACENE/ SULPHUR ..THEORY/ PRESSURE EFFECT/ LATTICE DYNAMICS/ PHONON DISPERSI

5. 70 NONADECANE C19.H40

- 72-BA-07 BARNES NONADECANE/ EICOSANE .EXPERIMENT/ @EASI-ELASTIC PEAK/ ROTATIONAL DIFFUSION/ PLASTIC CRYSTAL
5. 71 NYLON
65-SA-01 SAFFORD, LOSACCO NYLON .EXPERIMENT/ TOF SPECTRA/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS
5. 72 OCTANE
C8.H18
73-LO-02 LOGAN, DANNER+ PENTANE/ HEXANE/ HEPTANE/ OCTANE .EXPERIMENT/ INCOHERENT/ T-O-F SPECTRA/ PHONON DISPERSION
5. 73 OXALIC ACID
C2.H2.O4
70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
5. 74 PARAFFINE
59-MC-01 MCCALL, DOUGLASS+ PARAFFINE .DIFFUSION PARAMETER/ EXPERIMENT/ LIQUID
61-BR-03 BRUGGER ZR-H/ H2.O/ BENZENE/ PARAFFINE/ ALCOHOL .SIGMA (E+E-PRIME,THETA)/ EXPERIMENT/ LIQUIDS/ TOF
64-DA-02 DANNER, SAFFORD+ POLYETHYLENE/ PARAFFINE .FREQUENCY SPECTRUM/ EXPERIMENT/ SOLID/ MOLECULAR DYNAMICS
65-BO-03 BOUTIN, PRASK+ POLYETHYLENE/ PARAFFINE .FREQUENCY SPECTRUM/ EXPERIMENT/ SOLID
68-BA-03 BANK, KRIMM POLYETHYLENE/ PARAFFINE .FREQUENCY DISTRIBUTION/ SOLID/ EXPERIMENT .INFRARED ABSORPTION SPEC
73-WU-01 WU, NICOL POLYETHYLENE/ PARAFFINE .EXPERIMENT/ RAMAN SPECTRA/ PRESSURE EFFECT/ LATTICE MODE
5. 75 PENTANE
C5.H12
64-LA-01 LARSSON, DAHLBORG H2.O/ D2.O/ PENTANE/ GLYCELINE .EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION
66-LA-01 LARON, BERGSTEDT ALCOHOL/ PENTANE .THEORY/ LIQUID/ MOLECULAR DYNAMICS/ NEUTRON SPECTRA/ DIFFERENTIAL CROSS
66-LA-02 LARSSON, AMARAL+ ALCOHOL/ PENTANE .EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION .1
67-RU-02 RUSH METHYLCHLOROFORM/ PENTANE/ ETHANE .COLD-NEUTRON/ FREQUENCY SPECTRUM
67-SK-01 SKOELD, KARLEN+ PENTANE/ H2.O .MOLECULAR DYNAMICS/ SOLID/ EXPERIMENT/ FREQUENCY SPECTRUM
68-DA-01 DAHLBORG, FRIBERG+ PENTANE/ PENTANOL .EXPERIMENT .@QUASI-ELASTIC/ TEMPERATURE EFFECT
68-GR-01 GRANT, STRONG+ PENTANE .EXPERIMENT/ LIBRATIONAL MOTION
70-DE-01 DE-GRAAF, SCIESINSKI PENTANE .EXPERIMENT/ @QUASI-ELASTIC PEAK .ROTATIONAL-DIFFUSION/ REORIENTATIONAL JUMP
70-EG-01 EGELSTAFF, HARRIS PENTANE/ HEPTANE/ DODECANE .EXPERIMENT/ @QUASI-ELASTIC/ DIFFUSION CONSTANT
72-DA-01 DAHLBORG, GRAESLUND+ PENTANE .EXPERIMENT/ CRYSTAL SPECTROMETER .PHASE TRANSITION/ OSCILLATIONAL AND ROT
73-LO-02 LOGAN, DANNER+ PENTANE/ HEXANE/ HEPTANE/ OCTANE .EXPERIMENT/ INCOHERENT/ T-O-F SPECTRA/ PHONON DISPERSION
5. 76 PENTANOL
C5.H12.O
67-RA-07 RAPEANU, ILESCU PENTANOL .EXPERIMENT/ MOLECULAR DYNAMICS .ROOM TEMP./ 3-AXIS SPECTROMETER
68-DA-01 DAHLBORG, FRIBERG+ PENTANE/ PENTANOL .EXPERIMENT .@QUASI-ELASTIC/ TEMPERATURE EFFECT
5. 77 PHENANTHRENE
C14.H10

- 71-SP-02 SPIELBERG, ARNDT+ PHENANTHRENE ..SOLID/ EXPERIMENT ..HINDERED VIBRATION
5. 78 PHENANTRACENE
- 73-FI-01 FILIPPINI, GRAMACCIOLI+ NAPHTHALENE/ ANTHRACENE/ PHENANTRACENE/ PYRENE/ ANNULENE ..THEORY/ LATTICE DYNAMIC
5. 79 PHENYL
- 64-SP-01 SPRINGER, HOFMYER+ H2,O/ D2,O/ PHENYL/ ZR-H ..EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER ..AVE-MU
5. 80 P-AZOXYANISOLE PAA
- 70-BL-01 BLINC, DIMIC P-AZOXYANISOLE ..EXPERIMENT/ TOF ..PIFFUSION CONSTANT/ LIQUID CRYSTAL
- 70-BL-02 BLINC, DIMIC P-AZOXYANISOLE ..EXPERIMENT/ DIFFUSION BROADENING/ NEMATIC AND ISOTROPIC LIQUID
- 72-JA-04 JANIK, JANIK+ P-AZOXYANISOLE ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ NEMATIC LIQUID CRYSTAL/ 396-399K/ EXT
- 72-PY-02 PYN, OTNES+ P-AZOXYANISOLE ..EXPERIMENT/ NEUTRON DIFFRACTION/ PHASE DIAGRAM
- 74-BA-05 BATA, VIZI+ P-AZOXYANISOLE ..EXPERIMENT/ LIQUID CRYSTAL PHASE/ QUASI-ELASTIC SPECTRUM/ ROTATIONAL DIFFUSIO
- 74-NI-01 NIIMURA P-AZOXYANISOLE/ LIQUID-CRYSTAL ..EXPERIMENT/ STRUCTURE FACTOR
- 75-MO-01 MOELLER, RISTE P-AZOXYANISOLE ..EXPERIMENT/ NEMATIC LIQUID/ ONSET OF CONVECTION AND TURBULENCE
5. 81 POLYACETALDEHYDE
- 68-LO-02 LONGSTER, WHITE POLYACETALDEHYDE/ POLYTRIFLUOROACETALDEHYDE ..EXPERIMENT/ TOF/ NEUTRON SPECTRUM ..ROOM TEM
5. 82 POLYACRYLONITRILE
- 67-TR-01 TREVINO, BOUTIN POLYETHYLENE/ POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POLYOXYMETHYLENE ..REVIEW/ TOF SPECTRA
5. 83 POLYALANINE POLYALANINE
- 70-KR-01 KRISHNAN, GUPTA POLYALANINE ..THEORY/ PHONON DISPERSION/ G.F MATRIX/ ALPHA-HELIX
- 70-KR-02 KRISHNAN, GUPTA POLYALANINE ..THEORY/ PHONON DISPERSION/ G.F MATRIX METHOD/ BETA-STRUCTURE
5. 84 POLYDIMETHYLSILOXANE
- 69-HE-01 HENRY, SAFFORD POLYDIMETHYLSILOXANE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS ..25DC/ -123DC
- 73-AM-01 AMARAL, VINHAS+ NEUTRON-SCATTERING-IN-SOLIDS/ POLYDIMETHYLSILOXANE ..EXPERIMENT/ SOLID/ T-O-F/ SIGMA (E)
5. 85 POLYETHYLENE
- 58-MC-01 MCREYNOLDS, NELKIN+ H2,O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE ..EXPERIMENT/ THEORY/ LIQUID/ SOLID
- 62-GO-02 GOLDMAN, FEDERIGHI POLYETHYLENE ..SCATTERING THEORY/ NEUTRON SPECTRUM/ FREQUENCY DISTRIBUTION
- 62-LI-01 LIN, KOENIG POLYETHYLENE ..THEORY/ SOLID/ MOLECULAR DYNAMICS
- 62-TA-01 TASUMI, SHIMANOUCHI+ POLYETHYLENE ..THEORY/ SOLID/ MOLECULAR DYNAMICS

62-ZE-01 ZEMLYANOV, CHERNOPLKOV POLYETHYLENE/ BENZENE/ BIPHENYL ..EXPERIMENT/ MOLECULAR DYNAMICS
 63-GO-01 GOLDMAN, FEDERIGHI POLYETHYLENE ..LIQUID/ THEORY/ SIGMA (E,E-PRIME,THETA)/ NEUTRON SPECTRUM
 63-GO-02 GOLDMAN, FEDERIGHI H2,O/ POLYETHYLENE ..CROSS SECTION EVALUATION
 63-LI-01 LINDENMEIER, MATSUMOTO+ H2,O/ POLYETHYLENE/ COMPUTER-CODES ..SCATTERING THEORY/ LIQUID/ SIGMA(E,E-PRIME,THETA)
 63-ZE-02 ZEMLYANOV, CHERNOPLKOV BENZENE/ BIPHENYL/ POLYETHYLENE ..INELASTIC SCATTERING SPECTRA
 64-DA-02 DANNER, SAFFORD+ POLYETHYLENE/ PARAFFINE ..FREQUENCY SPECTRUM/ EXPERIMENT/ SOLID/ MOLECULAR DYNAMICS
 64-DA-03 DANNER, BOUTIN+ POLYETHYLENE ..EXPERIMENT/ FREQUENCY DISTRIBUTION ..TOF/ 125, 178 AND 293DK
 65-AR-01 ARMSTRONG POLYETHYLENE ..EXPERIMENT/ SOLID
 65-BE-01 BEYSTER, KOPPEL D2,O/ H2,O/ POLYETHYLENE/ BE ..THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION
 65-BO-03 BOUTIN, PRASK+ POLYETHYLENE/ PARAFFINE ..FREQUENCY SPECTRUM/ EXPERIMENT/ SOLID
 65-KI-01 KITAGAWA, MIYAZAWA POLYETHYLENE ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS ..S
 65-MY-01 MYERS, DONOVAN+ POLYETHYLENE ..SIGMA(E-E-PRIME,THETA)/ FREQUENCY SPECTRUM/ EXPERIMENT/ SOLID
 65-MY-02 MYERS, SUMMERFIELD+ POLYETHYLENE ..FREQUENCY SPECTRA
 65-SU-01 SUMMERFIELD POLYETHYLENE ..THEORY ..SCATTERING CROSS SECTION FOR POLYETHYLENE
 65-TA-01 TASUMI, SHIMANOUCI POLYETHYLENE ..THEORY/ MOLECULAR DYNAMICS/ DISPERSION RELATION
 65-WH-01 WHITEMORE POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI
 66-KI-01 KIROUAC, MOORE+ H2,O/ POLYETHYLENE ..EXPERIMENT/ SCATTERING FUNCTION/ SCATTERING CROSS SECTION
 66-KI-03 KIROUAC, MOORE+ POLYETHYLENE ..EXPERIMENT/ SCATTERING FUNCTION/ SCATTERING CROSS SECTION/ NEUTRON SPECTRUM
 66-KO-01 KOPPEL H2,O/ POLYETHYLENE/ ZR-H/ H2,O ..SCATTERING SECTION EVALUATION/ SCATTERING FUNCTION/ THEORY/ LIQUID/ SO
 66-KO-04 KOPPEL H2,O/ POLYETHYLENE/ ZR-H/ H ..CROSS SECTION EVALUATION/ SCATTERING FUNCTION/ THEORY/ LIQUID/ SO
 66-MY-01 MYERS, SUMMERFIELD+ POLYETHYLENE ..MOLECULAR DYNAMICS/ EXPERIMENT/ SIGMA (E)/ FREQUENCY SPECTRUM
 66-SA-01 SAFFORD, HAUMANN+ POLYETHYLENE ..FREQUENCY SPECTRUM/ NEUTRON SPECTRUM/ EXPERIMENT/ LIQUID ..NEUTRON SCATTE
 66-TR-01 TREVINO POLYETHYLENE ..EXPERIMENT/ NEUTRON SPECTROSCOPY ..TOF/ ORIENTED SAMPLE
 66-WH-01 WHITEMORE POLYETHYLENE ..EXPERIMENT
 67-BI-01 BISCHOFF, BRYANT+ POLYETHYLENE/ H2,O/ ZR-H/ NB-H/ U-O2 ..EXPERIMENT
 67-KI-02 KITAGAWA, MIYAZAWA POLYETHYLENE ..THEORY/ FREQUENCY DISTRIBUTION/ SIGMA (E,E-PRIME,THETA)
 67-KI-03 KITAGAWA, MIYAZAWA POLYETHYLENE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..DIFFERENTIAL CROSS SE
 67-MO-01 MOORE, KIROUAC+ POLYETHYLENE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS ..300DK
 67-SC-01 SCHAUFEL, SHIMANOUCI POLYETHYLENE ..LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ THEORY/ ..OPTICAL EXPERIMENT
 67-TA-01 TASUMI, KRIMM POLYETHYLENE ..MOLECULAR DYNAMICS/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
 67-TR-01 TREVINO, BOUTIN POLYETHYLENE/ POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POLYOXYMETHYLENE ..REVIEW/ TOF SPECTRA
 67-TU-01 TUCKER, REESE POLYETHYLENE ..EXPERIMENT
 68-BA-03 BANK, KRIMM POLYETHYLENE/ PARAFFINE ..FREQUENCY DISTRIBUTION/ SOLID/ EXPERIMENT ..INFRARED ABSORPTION SPEC
 68-FE-01 FELDKAMP, VENKATARAMAN+ POLYETHYLENE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ CONST.-0
 68-KI-02 KITAGAWA, MIYAZAWA POLYETHYLENE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
 68-KI-03 KITAGAWA, MIYAZAWA POLYETHYLENE ..THEORY/ FREQUENCY DISTRIBUTION ..ONE, TWO, THREE-PHONON SCATTERING/ 100D
 68-LY-01 LYNCH-JR, SUMMERFIELD+ POLYETHYLENE ..SOLID/ EXPERIMENT/ THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS
 68-MY-01 MYERS, RANDOLPH POLYETHYLENE ..EXPERIMENT/ LATTICE DYNAMICS ..DIFFERENTIAL CROSS SECTION/ 300DK/ 77DK/ 4,2
 68-MY-02 MYERS POLYETHYLENE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ SOLID ..TOF/ SPECIFIC HEAT
 68-PI-01 PISERI, ZERBI POLYETHYLENE ..THEORY/ PHONON SPECTRA/ ZIG-ZAG CHAIN
 69-CH-01 CHANG, SUMMERFIELD POLYETHYLENE ..SOLID/ THEORY/ FREQUENCY DISTRIBUTION
 69-FE-02 FELDKAMP, KING POLYETHYLENE ..CRYSTAL DYNAMICS/ POLYMER
 69-IV-01 IVANITSKII, KROTENKO+ POLYETHYLENE ..FREQUENCY SPECTRA
 69-KI-02 KIROUAC, JERNOW+ POLYETHYLENE ..THEORY/ MOLECULAR DYNAMICS ..SCATTERING CROSS SECTION EVALUATION
 69-MA-04 MATSUURA, MIYAZAWA POLYETHYLENE ..FREQUENCY DISTRIBUTION/ MOLECULAR DYNAMICS/ THEORY/ DISPERSION RELATION
 69-MO-02 MOORE, KIROUAC+ POLYETHYLENE ..FREQUENCY SPECTRA
 69-SP-01 SPREVAK, KOPPEL POLYETHYLENE ..THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ SIGMA (E) ..SCATTERING
 70-DO-02 DOI, SAKAMOTO+ AR/ KR/ POLYETHYLENE ..EXPERIMENT/ FREQUENCY DISTRIBUTION
 70-KI-03 KITAGAWA, MIYAZAWA AR/ KR/ POLYETHYLENE ..REVIEW/ LATTICE DYNAMICS
 70-KI-04 KITAGAWA, MIYAZAWA POLYETHYLENE ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ PERDEUTERATED PE
 70-MA-01 MACHIDA POLYETHYLENE ..THEORY/ EFFECT OF END GROUP VIBRATION/ DISPERSION CURVES
 71-BE-02 BERGHMANS, SAFFORD+ POLYETHYLENE ..EXPERIMENT/ FREQUENCY SPECTRA/ LOW-FREQUENCY MOTION/ VARIOUS TEMPERATUR

- 71-BR-02 BROADHURST, MOPSIK POLYETHYLENE ..THEORY/ FREQUENCY SPECTRA/ LINEAR POLYMER
 71-ZE-02 ZERBI, PISERI+ POLYETHYLENE ..THEORY/ FREQUENCY SPECTRA/ PERFECT AND IRREGULAR POLYMER CHAIN
 72-MA-01 MARSH, MARTIN POLYETHYLENE ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ PROPAGATING TRASVERSELY TO CHAIN
 72-SA-01 SAKAMOTO, IIZUMI+ K,H,F2/ (N,H)72.S.04/ POLYETHYLENE ..EXPERIMENT/ BE-FILTER-DETECTOR/ MOLECULAR DYNAMICS
 72-TW-01 TWISLETON, WHITE POLYETHYLENE ..EXPERIMENT/ PHONON DISPERSION/ PERPENDICULAR TO CHAIN AXES
 73-HA-02 HARLEY, HAYES+ POLYETHYLENE ..EXPERIMENT/ RAMAN/ LOW-FREQUENCY PHONON/ 4,2-373K
 73-HE-01 HERDADE, VINHAS+ POLYETHYLENE/ H2.O ..EXPERIMENT/ SOLID/ LIQUID/ T-O-F/ SIGMA (E)
 73-WU-01 WU, NICOL POLYETHYLENE/ PARAFFINE ..EXPERIMENT/ RAMAN SPECTRA/ PRESSURE EFFECT/ LATTICE MODE
 73-WU-02 WU, NICOL POLYETHYLENE ..EXPERIMENT/ RAMAN SPECTR./ LOW FREQUENCY/ PRESSURE EFFECT
 75-SW-01 SWAMINATHAN, TEWARI+ POLYETHYLENE ..THEORY/ LATTICE DYNAMICS/ MODEL
- 5, 86 POLYETHYLENEOXIDE
- 67-TR-01 TREVINO, BOUTIN POLYETHYLENE/ POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POLYOXYMETHYLENE ..REVIEW/ TOF SPECTRA
- 5, 87 POLYETHYLENE TEREPHTHALATE
- 75-BE-01 BERGHMANS, GROENINCKX POLYETHYLENE TEREPHTHALATE ..EXPERIMENT/ PHONON SPECTRA/ EFFECT OF CRYSTALLINITY
- 5, 88 POLYGLUTAMIC ACID
- 66-BO-03 BOUTIN, WHITTEMORE POLYGLUTAMIC ACID ..EXPERIMENT/ FREQUENCY SPECTRUM/ MOLECULAR DYNAMICS
 68-WH-03 WHITTEMORE POLYPEPTIDE/ POLYGLUTAMIC ACID ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION
- 5, 89 POLYGLYCINE
- 63-FU-01 FUKUSHIMA, IDEGUCHI+ POLYGLYCINE ..THEORY/ NORMAL VIBRATION
 68-GU-01 GUPTA, TREVINS+ POLYGLYCINE ..FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS
 71-SI-02 SINGH, GUPTA POLYGLYCINE ..THEORY/ DISPERSION CURVE/ PHONON SPECTRA
 72-FA-01 FANCONI POLYGLYCINE ..THEORY/ DISPERSION RELATION ..2-DIMENSIONAL LATTICE VIBRATION
- 5, 90 POLYOXYMETHYLENE
- 66-KI-04 KITAGAWA, MIYAZAWA POLYOXYMETHYLENE ..THEORY/ FREQUENCY DISTRIBUTION/ SOLID ..SPECIFIC HEAT
 66-TR-02 TREVINO, BOUTIN POLYOXYMETHYLENE ..EXPERIMENT/ FREQUENCY SPECTRA/ LATTICE DYNAMICS
 67-TR-01 TREVINO, BOUTIN POLYETHYLENE/ POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POLYOXYMETHYLENE ..REVIEW/ TOF SPECTRA
 72-BO-02 BOERIO, CORNELL POLYOXYMETHYLENE ..THEORY/ DISPERSION CURVE/ FREQUENCY SPECTRA/ RAMAN EXPERIMENT
 74-SA-02 SAKAMOTO, MASAKI+ POLYOXYMETHYLENE ..EXPERIMENT/ ORIENTED CRYSTAL/ FREQUENCY SPECTRUM
- 5, 91 POLYPEPTIDE
- 68-WH-03 WHITTEMORE POLYPEPTIDE/ POLYGLUTAMIC ACID ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION
- 5, 92 POLYPROPYLENE
- POLYPROPYLENE

63-MI-03 MIYAZAWA, FUKUSHIMA+ POLYPROPYLENE ..EXPERIMENT/ FAR-INFRARED SPECTROMETRY
 63-MI-04 MIYAZAWA, IDEGUCHI+ POLYPROPYLENE ..THEORY/ INFRARED SPECTRA/ INFINITE HELICAL CHAIN POLYMER/ NORMAL MODE
 64-SA-01 SAFFORD, DANNER+ POLYPROPYLENE ..EXPERIMENT/ TOF SPECTRA/ FREQUENCY SPECTRA/ LATTICE DYNAMICS
 68-ZE-02 ZERBI, PISERI POLYPROPYLENE ..FREQUENCY DISTRIBUTION/ DIFFERENTIAL CROSS SECTION/ CRYSTAL THEORY..F.G.MET
 71-YA-01 YASUKAWA, KIMURA+ POLYPROPYLENE ..EXPERIMENT/ TOF SPECTRUM/ FREQUENCY DISTRIBUTION

5. 93 POLYTETRAFLUOROETHYLENE TEFLON

69-LA-02 LAGARDE, PRASK+ TEFLON ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE
 73-PI-01 PISERI, POWELL+ TEFLON ..EXPERIMENT/ CALCULATION/ PHONON DISPERSION
 73-SA-01 SAKAMOTO, IIZUMI+ POLYTETRAFLUOROETHYLENE ..EXPERIMENT/ PHONON DISPERSION/ PHASE TRANSITION

5. 94 POLYTRIFLUOROACETALDEHYDE

68-LO-02 LONGSTER, WHITE POLYACETALDEHYDE/ POLYTRIFLUOROACETALDEHYDE ..EXPERIMENT/ TOF/ NEUTRON SPECTRUM ..ROOM TEM

5. 95 POLYVINYL CHLORIDE

68-LY-02 LYNCH-JR, SUMMERFIELD POLYVINYL CHLORIDE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRI

5. 96 POTASSIUM TRICHLOROACETATE K,C2,CL3,02

70-CO-02 COLLINS, HAYWOOD+ K,H,F2/ CS,H,CL2/ NA,H,C,03/ K,C2,CL3,02/ K,C2,F3,02 ..EXPERIMENT/ MOLECULAR DYNAMICS/ F

5. 97 POTASSIUM TRIFLUOROACETATE K,C2,F3,02

70-CO-02 COLLINS, HAYWOOD+ K,H,F2/ CS,H,CL2/ NA,H,C,03/ K,C2,CL3,02/ K,C2,F3,02 ..EXPERIMENT/ MOLECULAR DYNAMICS/ F

5. 98 PROPANE C3,H8

62-BR-02 BRUGGER METHANE/ H2,O/ D2,O/ PROPANE ..THEORY/ EXPERIMENT/ SCATTERING FUNCTION
 62-MC-01 MCMURRY, GANNON+ METHANE/ PROPANE ..THEORY/ GAS/ DIFFERENTIAL CROSS SECTION
 62-ST-02 STRONG, MARSHALL+ PROPANE
 70-GR-01 GRANT, PUGMIRE+ PROPANE ..EXPERIMENT/ MOLECULAR DYNAMICS/ TOF

5. 99 PROPANOL C3,H8,O

72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM

5,100 PROPIONIC ACID C3,H6,02

70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC

- 5.101 PYRAZINE
 68-GE-01 GERBAUX, HADNI PYRAZINE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ SOLID
 C4.H4.N2
- 5.102 PYRENE
 73-FI-01 FILIPPINI, GRAMACCIOLI+ NAPHTHALENE/ ANTHRACENE/ PHENANTHACENE/ PYRENE/ ANNULENE ..THEORY/ LATTICE DYNAMIC
 C16.H10
- 5.103 PYRIDINE
 69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC
 PYRIDINE
- 5.104 RESIN
 66-GR-01 GRAFFSTEIN, RZESSOT+ RESIN ..EXPERIMENT ..NEUTRON DIFFUSION PARAMETER
- 5.105 RUBBER
 68-TU-02 TUNKELO, BAJOREK+ RUBBER ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION
- 5.106 TAURINE
 72-DA-04 DAVIDOVIC, RATKOVIC+ TAURINE/ ALPHA-AMINO-ISOBUTYRIC-ACID ..EXPERIMENT/ VIBRATIONAL SPECTRUM
 72-DA-05 DAVIDOVIC, RATKOVIC+ TAURINE/ BUTYRIC ACID ..INELASTIC NEUTRON SCATTERING/ INCOHERENT
- 5.107 TERPHENYL
 C18.H14
 62-BR-03 BRUGGER TERPHENYL ..SCATTERING LAW/ EXPERIMENT/ SOLID/ LIQUID ..23DC/ 207DC
 65-HO-01 HOFMEYER BENZENE/ BIPHENYL/ TERPHENYL ..EXPERIMENT ..21DC-150DC 10X,23H DATA END IN GTMIN RTN,)
 66-SC-02 SCHMIDT, SAAD BENZENE/ BIPHENYL/ TERPHENYL/ CYCLOHEXANE ..EXPERIMENT
 72-RE-04 REYNOLDS, WHITE TERPHENYL ..EXPERIMENT/ NEUTRON SPECTROSCOPY/ MOLECULAR VIBRATION
- 5.108 TOLUENE
 C7.H8
 68-HO-02 HOLMRYD, NELIN BENZENE/ TOLUENE ..EXPERIMENT/ TOF ..DIFFUSIVE MOTION/ QUASI-ELASTIC
 71-WI-01 WINFIELD TOLUENE ..LIQUID/ QUASI-ELASTIC PEAK/ EXPERIMENT.
- 5.109 TRICHLOROMETHANE
 C.H.CL3
 68-O--01 O-REILLY C.CL4/ C.H.CL3/ C6.H5.CL/ H.F/ H.CL/ N.H3/ H2.O ..CORRELAION FUNCTION/ MOLECULAR ROTATIONS/ LIQU
- 5.110 TRIFLUOROETHANE
 C.H3.C.F3

JAERI-M 6857

70-BR-02 BRIER, HIGGINS C.H3.C.F3 ..EXPERIMENT/ SCATTERING LAW/ ..TORSIONAL OSCICATION/ SPHERICAL TOP MOLECULE

6 ADSORPTIONS AND SOLUTIONS

- 6. 1 ACETYLENE-CHARCOAL C₂H₂-CHARCOAL
 67-VE-04 VERDAN H₂-CHARCOAL/ C₁H₄-CHARCOAL/ C₂H₄-CHARCOAL/ C₂H₂-CHARCOAL ..EXPERIMENT/ FREQUENCY SPECTRA/ ADS
- 6. 2 ALCOHOL-WATER ALCOHOL-WATER ..EXPERIMENT/ NEUTRON SPECTROSCOPY ..DIFFUSION OF WATER IN AQUEOUS SOLUTI
 70-FR-02 FRANKS, RAVENHILL+
- 6. 3 AMMONIA-ZEOLITE METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP
 66-DO-06 DOWNES, WHITE+
- 6. 4 AMMONIUM FLUORIDE-WATER N, H₄, F-H₂O
 65-ST-04 STILLER H, F-H₂O/ N, H₄, F-H₂O ..EXPERIMENT/ SOLUTION/ BE-FILTER DETECTOR SPECTRUM
- 6. 5 ARGON-GRAPHITE AR-GRAPHITE
 75-TA-02 TAUB, PASSELL+ AR-GRAPHITE ..EXPERIMENT/ AR-FILM/ ADSORBED ON GRAPHITE/ 5DK
- 6. 6 CESIUM CHLORIDE-WATER CS, CL-H₂O
 70-LE-05 LEUNG, SAFFORD LI, CL-H₂O/ MG, CL₂-H₂O/ CS, CL-H₂O/ K, CL-H₂O/ NA, CL-H₂O/ LA, (N.O₃)₃-H₂O/ ..EXPERIMENT/
- 6. 7 CHROMIUM CHLORIDE-WATER CR, CL₃-H₂O
 70-LE-06 LEUNG, SANBORN+ LA, (N.O₃)₃-H₂O/ CR, CL₃-H₂O/ LA, CL₃-H₂O ..EXPERIMENT/ H₂O MOTION IN SOLUTION AND GLASS
- 6. 8 DIETHYL DIETHYLENE GLYCOL-CARBON DISULFI
 71-DE-03 DENIZ, JANNIK+ ETHYL ETHER-CARBON DISULFIDE/ DIETHYL DIETHYLENE GLYCOL-CARBON DISULFIDE ..THEORY/ EXPERIME
- 6. 9 ETHYL ETHER-CARBON DISULFIDE (C₂H₅)₂O-C.S₂
 71-DE-03 DENIZ, JANNIK+ ETHYL ETHER-CARBON DISULFIDE/ DIETHYL DIETHYLENE GLYCOL-CARBON DISULFIDE ..THEORY/ EXPERIME
- 6. 10 ETHYLENE-CHARCOAL C₂H₄-CHARCOAL

67-VE-04 VERDAN H2-CHARCOAL/ C.H4-CHARCOAL/ C2.H4-CHARCOAL/ C2.H2-CHARCOAL ..EXPERIMENT/ FREQUENCY SPECTRA/ ADS

6. 11 HYDROGEN-CHARCOAL H2-CHARCOAL

67-VE-04 VERDAN H2-CHARCOAL/ C.H4-CHARCOAL/ C2.H4-CHARCOAL ..EXPERIMENT/ FREQUENCY SPECTRA/ ADS

6. 12 HYDROGEN-PLATINUM H-PT

75-AS-01 ASADA, TOYA+ H-PT ..INELASTIC NEUTRON SCATTERING EXPERIMENT/ HYDROGEN ADSORBED ON PLATINUM

6. 13 HYDROGEN FLUORIDE-WATER H,F-H2,O

65-ST-04 STILLER H,F-H2,O/ N.H4,F-H2,O ..EXPERIMENT/ SOLUTION/ BE-FILTER DETECTOR SPECTRUM

6. 14 LANTHANUM CHLORIDE-WATER LA,CL3-H2,O

70-LE-06 LEUNG, SANBORN+ LA,(N.O3)3-H2,O/ CR,CL3-H2,O ..EXPERIMENT/ H2,O MOTION IN SOLUTION AND GLASS

6. 15 LANTHANUM NITRATE-WATER LA,(N.O3)3-H2,O

70-LE-06 LEUNG, SANBORN+ LA,(N.O3)3-H2,O/ CR,CL3-H2,O ..EXPERIMENT/ H2,O MOTION IN SOLUTION AND GLASS

6. 16 LITHIUM CHLORIDE-WATER LI,CL-H2,O

70-LE-05 LEUNG, SAFFORD LI,CL-H2,O/ MG,CL2-H2,O/ CS,CL-H2,O/ K,CL-H2,O/ NA,CL-H2,O/ LA,(N.O3)3-H2,O/ ..EXPERIMENT/

6. 17 MAGNESIUM CHLORIDE-WATER MG,CL2-H2,O

70-LE-05 LEUNG, SAFFORD LI,CL-H2,O/ MG,CL2-H2,O/ CS,CL-H2,O/ K,CL-H2,O/ NA,CL-H2,O/ LA,(N.O3)3-H2,O/ ..EXPERIMENT/

6. 18 METHANE-CHARCOAL C.H4-CHARCOAL

67-VE-04 VERDAN H2-CHARCOAL/ C.H4-CHARCOAL/ C2.H4-CHARCOAL/ C2.H2-CHARCOAL ..EXPERIMENT/ FREQUENCY SPECTRA/ ADS

69-TO-01 TODIREANU C.H4-CHARCOAL ..EXPERIMENT/ TOTAL SCATTERING CROSS SECTION

6. 19 METHANE-QUINOL C.H4-C6,H4,(O,H)2

66-DO-06 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP

6. 20 METHANOL-QUINOL C.H4,O-C6,H4,(O,H)2

66-DO-06 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP

6. 21 METHYL CYANIDE-QUINOL C.H3.C.N=C6.H4.(O.H)
 66-DO-06 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP
6. 22 NITROGEN-GRAPHITE N-GRAPHITE
 74-KJ-01 KJEMES, PASSELL+ N-GRAPHITE ..EXPERIMENT/ NEUTRON DIFFRACTION/ NITROGEN ADSORBED
6. 23 POTASSIUM CHLORIDE-WATER K.CL-H2.O
 70-LE-05 LEUNG, SAFFORD LI.CL-H2.O/ MG.CL2-H2.O/ CS.CL-H2.O/ K.CL-H2.O/ NA.CL-H2.O/ LA.(N.O3)3-H2.O/ ..EXPERIMENT/
6. 24 SODIUM CHLORIDE-WATER NA.CL-H2.O
 70-LE-05 LEUNG, SAFFORD LI.CL-H2.O/ MG.CL2-H2.O/ CS.CL-H2.O/ K.CL-H2.O/ NA.CL-H2.O/ LA.(N.O3)3-H2.O/ ..EXPERIMENT/
6. 25 WATER-ALUMINA H2.O-AL2.O3
 64-BO-02 BOUTIN, PRASK H2.O/ WATER-SILICA/ WATER-ALUMINA/ AL.CL3 ..EXPERIMENT/ MOLECULAR DYNAMICS ..H2.O VAPOR ADSO
6. 26 WATER-BERYL H2.O-BE3.AL2.SI6.O18
 65-BO-06 BOUTIN, PRASK+ WATER-BERYL ..EXPERIMENT/ TOF SPECTRA/ ADSORBED WATER
6. 27 WATER-POTASSIUM FERROCYANIDE TRIHYDRATE
 66-RU-05 RUSH, LEUNG+ WATER-POTASSIUM FERROCYANIDE TRIHYDRATE ..EXPERIMENT/ MOLECULAR MOTION/ FERROELECTRIC TRANSIT
6. 28 WATER-QUINOL H2.O-C6.H4.(O.H)2
 66-DO-06 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP
6. 29 WATER-SILICA H2.O-SI.O2
 64-BO-02 BOUTIN, PRASK H2.O/ WATER-SILICA/ WATER-ALUMINA/ AL.CL3 ..EXPERIMENT/ MOLECULAR DYNAMICS ..H2.O VAPOR ADSO

PART 2

LIST OF REFERENCES

ORDERED BY THE PUBLISHED YEAR AND THE FIRST AUTHOR NAME

- 37-SC-01 SCHWINGER, J./ TELLER, E.
THE SCATTERING OF NEUTRONS BY ORTHO-AND PARAHYDROGEN
PHYS. REV., V.52, P.286-P.295 (1937)
H2 ..THEORY/ TOTAL CROSS SECTION
- 40-DA-01 DARLING, B.T./ DENNISON, D.M.
THE WATER VAPOR MOLECULE
PHYS. REV., V.57, P.128-P.139 (1940)
H2,O ..THEORY/ MOLECULAR DYNAMICS
- 41-SA-01 SACHS, R.G./ TELLER, E.
THE SCATTERING OF SLOW NEUTRONS BY MOLECULAR GASES
PHYS. REV., V.60, P.18-P.27 (1941)
NEUTRON-SCATTERING-IN-FLUIDS/ H2/ C.H4/ N.H3/ H2,O ..SC
ATTERING THEORY ..MOLECULAR GASES
- 44-WE-01 WEINSTOCK, R.
INELASTIC SCATTERING OF SLOW NEUTRONS
PHYS. REV., V.65, P.1-P.20 (1944)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ LATTICE D
YNAMICS ..INELASTIC SCATTERING
- 47-HA-01 HAMMERMESH, M./ SCHWINGER, J.
NEUTRON SCATTERING IN ORTHO-AND PARAHYDROGEN
PHYS. REV., V.71, P.678-P.680 (1947)
H2 ..THEORY/ GAS/ SCATTERING CROSS SECTION
- 47-ME-01 MEHRINGER, W.
MODEL CALCULATION OF DISPERSION OF PHONON-LIKE EXCITATI
ONS IN LIQUID ARGON
PHYS. LETT., A, V.49, P.27-P.28 (1947)
AR ..MODEL CALCULATION/ PHONON-LIKE EXCITATION/ DISPERS
ION CURVE
- 49-ME-01 MELKONIAN, E.
SLOW NEUTRON VELOCITY SPECTROMETER STUDIES OF O2,N2,AR,
H2,O AND SEVEN HYDROCARBONS
PHYS. REV., V.76, P.1750 (1949)
C.H4 ..SIGMA(E)/ EXPERIMENT
- 50-CA-01 CASSELS, J.M.
THE SCATTERING OF NEUTRONS BY CRYSTALS
PROGRESS IN NUCLEAR PHYSICS, V.1, P.185-P.215 (195
0)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY
- 50-FR-01 FROEMAN, P.O.
ON NEUTRON DIFFRACTION PHENOMENA ACCORDING TO THE KINEM
ATICAL THEORY, 2.
ARK., FYS., V.4, P.191-P.202 (1950)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLIDS ..NEUTRON
- DIFFRACTION
- 50-WA-01 WALLER, I./ FROEMAN, P.O.
ON NEUTRON DIFFRACTION PHENOMENA ACCORDING TO THE KINEM
ATICAL THEORY, 1.
ARK., FYS., V.4, P.183-P.189 (1950)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLIDS ..NEUTRON
DIFFRACTION
- 51-EG-01 EGELSTAFF, P.A.
INELASTIC SCATTERING OF COLD NEUTRONS
NATURE, V.168, P.290 (1951)
H/ BE/ V/ SE/ MO/ FE ..SOLID/ EXPERIMENT/ TRANSMISSION
- 51-KO-01 KOMATSU, K./ NAGAMIYA, T.
THEORY OF THE SPECIFIC HEAT OF GRAPHITE
J. PHYS. SOC. JAP., V.6, P.436-P.444 (1951)
GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBU
TION
- 51-MC-01 MCREYNOLDS, A.W./ WEISS, R.J.
COHERENT NEUTRON SCATTERING CROSS SECTION OF V=51
PHYS. REV., V.83, P.171-P.172 (1951)
V ..EXPERIMENT/ TOTAL CROSS SECTION ..TOTAL REFLECTION
FROM MIRROR SURFACE OF V
- 51-ME-01 MESSIAH, A.M.L.
SCATTERING OF SLOW NEUTRONS BY H2 AND C.H4
PHYS. REV., V.84, P.204 (1951)
H/ C.H4 ..THEORY/ SCATTERING THORY ..ROOM TEMP,
- 51-PL-01 PLACZEK, G./ NIJBOER, B.R.A./ VAN-HOVE, L.
EFFECT OF SHORT WAVELENGTH INTERFERENCE ON NEUTRON SCAT
TERING BY DENSE SYSTEMS OF HEAVY NUCLEI
PHYS. REV., V.82, P.392 (1951)
NEUTRON-SCATTERING-IN-FLUIDS/ HG ..THEORY/ SIGMA(E,F-PR
IME,THETA)/ SOLID/ LIQUID/ SCATTERING THEORY/ SIGMA(E)
..FCC-LATTICE/ HCP-LATTICE
- 52-PL-01 PLACZEK, G.
THE SCATTERING OF NEUTRONS BY SYSTEMS OF HEAVY NUCLEI
PHYS. REV., V.86, P.377-P.388 (1952)
SCATTERING-THEORIES ..TOTAL AND DIFFERENTIAL CROSS SECT
ION
- 52-PO-01 POPE, N.K.
THE THEORY OF NEUTRON DIFFRACTION BY GASES, 1
CAN. J. PHYS., V.30, P.597 (1952)
C.H4/ C.F4 ..MOLECULAR DYNAMICS/ THEORY
- 53-KR-01 KRAMHANSL, J./ BROOKS, H.
THE LATTICE VIBRATION SPECIFIC HEAT OF GRAPHITE

- J. CHEM. PHYS., V.21, P.1663-P.1669 (1953)
GRAPHITE ..THEORY/ SOLID/ LATTICE DYNAMICS
- 53-RO-01 ROSENSTOCK, H.B.
DYNAMICS OF THE GRAPHITE LATTICE
J. CHEM. PHYS., V.21, P.2064-P.2069 (1953)
GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
- 54-EG-01 EGELSTAFF, P.A.
INELASTIC SCATTERING OF COLD NEUTRONS BY LIQUID ACTA CRYSTALLOGR., V.7, P.673 (1954)
PB ..EXPERIMENT/ LIQUID
- 54-EG-02 EGELSTAFF, P.A./ SCHOFIELD, P.
THE STRUCTURE AND THERMAL MOTION OF SIMPLE LIQUIDS - 1
CONTEMP. PHYS., V.6, P.274-P.284 (1954)
REVIEW-ARTICLES ..REVIEW/ LIQUID DYNAMICS/ EXPERIMENTAL PRINCIPLES
- 54-FO-01 FORSLIND, E.
LATTICE DYNAMICS OF ICE AND A CASE OF DIFFUSE X-RAY SCATTERING
SWED. CEMENT CONCRETE INS., ROY. INST. TECHNOL., P. ROC., NO.21, P.1 (1954)
H₂O ..THEORY/ SOLID/ BORN-VON KARMAN MODEL/ CENTRAL FORCE MODEL/ DISPERSION RELATION/ HARMONIC APPROXIMATION/ INTERATOMIC FORCE CONSTANTS/ LATTICE DYNAMICS ..ICE/ DIFFUSE X-RAY SCATTERING/ TETRAHEDRAL STRUCTURE
- 54-PL-01 PLACZEK, G./ VAN-HOVE, L.
CRYSTAL DYNAMICS AND INELASTIC SCATTERING OF NEUTRONS
PHYS. REV., V.93, P.1207-P.1214 (1954)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY/ SOLID / LATTICE VIBRATION
- 54-VA-01 VAN-HOVE, L.
CORRELATION IN SPACE AND TIME AND BORN APPROXIMATION SCATTERING IN SYSTEMS OF INTERACTING PARTICLES
PHYS. REV., V.95, P.249-P.262 (1954)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
- 54-VI-01 VINEYARD, G.H.
MULTIPLE SCATTERING OF NEUTRONS
PHYS. REV., V.96, P.93-P.98 (1954)
SCATTERING-THEORIES ..THEORY/ MULTIPLE SCATTERING
- 54-VI-02 VINEYARD, G.H.
NEUTRON DIFFRACTION STUDY OF LIQUID MERCURY
J. CHEM. PHYS., V.22, P.1665-P.1667 (1954)
HG ..EXPERIMENT/ STRUCTURE FACTOR/ LIQUID METAL
- 54-WI-01 WICK, G.C.
THE SCATTERING OF NEUTRONS BY SYSTEMS CONTAINING LIGHT NUCLEI
PHYS. REV., V.94, P.1228-P.1242 (1954)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ MOLECULAR DYNAMICS
- 55-BR-01 BROCKHOUSE, B.N.
SLOW NEUTRON SPECTROMETRY
PHYS. REV., V.98, P.1171 (1955)
PB ..EXPERIMENT/ LIQUID
- 55-GL-01 GLAUBER, R.J.
TIME-DEPENDENT DISPLACEMENT CORRELATIONS AND INELASTIC SCATTERING BY CRYSTALS
PHYS. REV., V.98, P.1692-P.1698 (1955)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY/ SOLID
- 55-JA-01 JACROT, B./ NETTER, F./ GALULA, M.
TIME-OF-FLIGHT SPECTROMETRY EQUIPMENT FOR SLOW NEUTRONS IN USE AT THE SACLAY REACTOR - ITS APPLICATION TO A STUDY OF THE INELASTIC SCATTERING OF COLD NEUTRONS
PROCEEDING OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY, UNITED NATIONS, GENEVA, V.5, P.77-P.81 (1955)
GRAPHITE/ H₂O/ D₂O ..EXPERIMENT/ LIQUID/ SOLID
- 55-KO-01 KOMATSU, K.
THEORY OF THE SPECIFIC HEAT OF GRAPHITE 2
J. PHYS. SOC. JAP., V.10, P.346-P.356 (1955)
GRAPHITE ..THEORY/ LATTICE DYNAMICS ..SPECIFIC HEAT
- 55-KO-02 KOTHARI, L.S./ SINGWI, K.S.
THERMAL INELASTIC SCATTERING OF COLD NEUTRONS IN POLYCRYSTALLINE SOLIDS
PROC. ROY. SOC., LONDON, SER. A, V.231, P.293 (1955)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY/ SOLID
- 55-PL-01 PLACZEK, G./ VAN-HOVE, L.
INTERFERENCE EFFECTS IN THE TOTAL NEUTRON SCATTERING CROSS SECTION OF CRYSTAL
NUOVO CIM., V.1, P.233 (1955)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY
- 56-BA-01 BALDOCK, G.R.
LATTICE VIBRATIONS AND SPECIFIC HEAT OF GRAPHITE
PHIL. MAG., V.1, P.789 (1956)
GRAPHITE ..FREQUENCY SPECTRUM/ THEORY/ SOLID/ LATTICE DYNAMICS

- 56-KO-01 KOTHARI, L.S./ SINGWI, K.S./ VISVANATHAN, S.
SCATTERING OF COLD NEUTRONS IN LIQUID METALS AND THE EN-
TROPY OF DISORDER
PHIL. MAG., V.1, P.560-P.567 (1956)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID METAL/ @U
ASI-CRYSTALLINE MODEL
- 56-SO-01 SQUIRES, G.L.
RELATION BETWEEN THE VIBRATION FREQUENCIES OF A CRYSTAL
AND THE SCATTERING OF SLOW NEUTRONS
PHYS. REV., V.103, P.304-P.312 (1956)
NEUTRON-SCATTERING-IN-SOLIDS/ AL ..THEORY/ LATTICE VIBR
ATION/ FREQUENCY DISTRIBUTION ..ENERGY DISTRIBUTION OF
NEUTRONS COHERENTLY SCATTERED IN A ONE PHONON PROCESS
- 56-YO-01 YOSHIMORI, A./ KITANO, Y.
THEORY OF LATTICE VIBRATION OF GRAPHITE
J. PHYS. SOC. JAP., V.11, P.352-P.361 (1956)
GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBU
TION
- 56-ZE-01 ZEMACH, A.C./ GLAUBER, R.J.
DYNAMICS OF NEUTRON SCATTERING BY MOLECULES
PHYS. REV., V.101, P.118-P.129 (1956)
NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS/ SCAT
TERING THEORY
- 56-ZE-02 ZEMACH, A.C./ GLAUBER, R.J.
NEUTRON DIFFRACTION BY GASES
PHYS. REV., V.101, P.129-P.136 (1956)
METHANE ..SIGMA (THETA,E)/ THEORY/ GAS
- 57-AN-01 ANDERSON, A./ MCREYNOLDS, A.W./ NELKIN, M./ ROSENB
LUTH, M./ WHITMORE, W.
NEUTRON INVESTIGATION OF OPTICAL VIBRATION LEVELS IN ZI
RCONIUM HYDRIDE
PHYS. REV., V.108, P.1092-P.1093 (1957)
ZR-H ..EXPERIMENT/ SIGMA (E,E-PRIME,THETA)
- 57-BR-01 BROCKHOUSE, B.N./ IYENGAR, P.K.
NORMAL VIBRATIONS OF GERMANIUM BY NEUTRON SPECTROMETRY
PHYS. REV., V.108, P.894-P.895 (1957)
GE ..EXPERIMENT/ PHONON DISPERSION
- 57-CA-01 CARTER, R.S./ PALEVSKY, H./ HUGHES, D.J.
INELASTIC SCATTERING OF SLOW NEUTRONS BY LATTICE VIBRAT
IONS IN ALUMINUM
PHYS. REV., V.106, P.1168 (1957)
AL ..EXPERIMENT/ LATTICE VIBRATION/ DISPERSION RELATION
- 57-CO-01 COHEN, M./ FEYNNMAN, R.P.
THEORY OF INELASTIC SCATTERING OF COLD NEUTRONS FROM LI
QUID HELIUM
PHYS. REV., V.107, P.13-P.24 (1957)
HE ..THEORY/ SCATTERING BY ROTON
- 57-EG-01 EGESTAFF, P.A./ LONDON, H.
THE SCATTERING OF COLD NEUTRONS BY LIQUID HELIUM
PROC. ROY. SOC., LONDON, SER. A, V.242, P.374 (195
7)
HE ..LIQUID/ EXPERIMENT / SIGMA(E)/ SIGMA(E, THETA) ..L
IQUID HELIUM
- 57-KR-01 KRIEGER, T.J./ NELKIN, M.S.
SLOW NEUTRON SCATTERING BY MOLECULES
PHYS. REV., V.106, P.290-P.295 (1957)
NEUTRON-SCATTERING-IN-FLUIDS/ C.H2/ H2.O ..SCATTERING T
HEORY ..MOLECULE
- 57-PA-01 PALEVSKY, H./ OTNES, K./ LARSSON, K.E./ PAULI, R./
STEDMAN, R.
EXCITATION OF ROTONS IN HELIUM-2 BY COLD NEUTRONS
PHYS. REV., V.108, P.1346-P.1347 (1957)
HE ..EXPERIMENT/ ROTON
- 57-SJ-01 SJOELANDER, A.
ON TWO-PHONON PROCESSES IN NEUTRON DIFFRACTION AGAINST
CRYSTALS
ARK. FYS., V.13, P.215-P.228 (1957)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY/ SOLID
S/ LATTICE VIBRATION
- 57-TU-01 TURCHIN, V.F.
MANY-PHONON PROCESS IN CRYSTALS
ZH. EKSP. TEOR. FIZ. (SOV. PHYS. -JETP), V.33 (V.6)
, P.124-P.131 (P.96-P.102) (1957 (1958))
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID
- 58-BR-01 BRIMBERG, S.
ON THE SCATTERING OF SLOW NEUTRONS BY HYDROGEN MOLECULE
S
PROC. 2ND. INTERN. CONF. PEACEFUL USES ATOMIC ENER
GY, GENEVA, V.15, P.79-P.98 (1958)
H ..THEORY/ MOLECULAR DYNAMICS/ SIGMA(E)
- 58-BR-02 BROCKHOUSE, B.N.
STRUCTURAL DYNAMICS OF WATER BY NEUTRON SPECTROMETRY
NUOVO CIM., V.9, P.45 (1958)
H2.O/ D2.O ..EXPERIMENT
- 58-BR-03 BROCKHOUSE, B.N./ STEWART, A.T.
NORMAL MODES OF ALUMINUM BY NEUTRON SPECTROMETRY

- REV, MOD, PHYS., V.30, P.236 (1958)
AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
- 58-BR-04 BROCKHOUSE, B.N./ IYENGER, P.K.
NORMAL MODES OF GERMANIUM BY NEUTRON SPECTROMETRY
PHYS. REV., V.111, P.747 (1958)
GE ..EXPERIMENT/ DISPERSION RELATION
- 58-EG-01 EGELSTAFF, P.A.
INELASTIC SCATTERING OF COLD NEUTRON BY CRYSTALS, PART I
, II
AERE-N/R-1164, AERE-N/R-1165 (1958)
BE/ MG/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ SOLID
/ SIGMA(E, E-PRIME, THETA)/ SIGMA(E) ..ONE-PHONON CROSS
SECTION/ TWO-PHONON CROSS SECTION/ COHERENT CROSS SECT
ION
- 58-EI-01 EISENHAUER, C.M./ PELAH, I./ HUGHES, D.J./ PALEVSK
Y, H.
MEASUREMENT OF LATTICE VIBRATIONS IN VANADIUM BY NEUTRO
N SCATTERING
PHYS. REV., V.109, P.1046 (1958)
V ..EXPERIMENT/ FREQUENCY DISTRIBUTION
- 58-HE-01 HENSHAW, D.G.
ENERGY-MOMENTUM RELATION IN LIQUID HELIUM BY INELASTIC
SCATTERING OF NEUTRONS
PHYS. REV. LETT., V.1, P.127 (1958)
HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
- 58-MA-01 MAZO, R.M./ ZEMACH, A.C.
DIFFRACTION OF NEUTRONS BY IMPERFECT GASES
PHYS. REV., V.109, P.1564-P.1572 (1958)
SCATTERING-THEORIES ..THEORY/ SCATTERING CROSS SECTION
..IMPERFECT GAS/ ELASTIC AND INELASTIC SCATTERING
- 58-MC-01 MCREYNOLDS, A.W./ NELKIN, M.S./ ROSENBLETH, M.N.
NEUTRON THERMALIZATION BY CHEMICALLY-BOUND HYDROGEN AND
CARBON
PROCEEDING OF THE INTERNATIONAL CONFERENCE ON THE
PEACEFUL USES OF ATOMIC ENERGY, UNITED NATION, GEN
EVA, V.16, P.297 (1958)
H2,O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE ..EXPERIMENT/
THEORY/ LIQUID/ SOLID
- 58-PA-01 PALEVSKY, H./ OTNES, K./ LARSSON, K.E.
EXCITATION OF ROTONS IN HELIUM-2 BY COLD NEUTRONS
PHYS. REV., V.112, P.11-P.18 (1958)
HE ..EXPERIMENT/ ROTON/ DISPERSION RELATION
- 58-SJ-01 SJOELANDER, A.
MULTI-PHONON PROCESS IN SLOW NEUTRON SCATTERING BY CRYSTALS
- TALS
ARK, FYS., V.14, P.315-P.371 (1958)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..SC
ATTERING CROSS SECTION
- 58-ST-01 STEWART, A.T./ BROCKHOUSE, B.N.
VIBRATION SPECTRA OF VANADIUM AND A MN-CO ALLOY BY NEUT
RON SPECTROSCOPY
REV. MOD. PHYS., V.30, P.250 (1958)
V/ MN-CO ..EXPERIMENT/ FREQUENCY DISTRIBUTION
- 58-TO-01 TOYA, T.
NORMAL VIBRATIONS OF COPPER
PROGR. THEORET. PHYS., KYOTO, V.20, P.974 (1958)
CU ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 58-TO-02 TOYA, T.
NORMAL VIBRATIONS OF SODIUM
J. RES. INST. CATALYSIS, HOKKAIDO UNIV., V.4, P.18
3 (1958)
NA ..THEORY/ SOLID/ LATTICE DYNAMICS
- 58-VA-01 VAN-HOVE, L.
A REMARK ON THE TIME-DEPENDENT PAIR DISTRIBUTION
PHYSICA, V.24, P.404-P.408 (1958)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LIQUID
D/ GAS
- 58-VI-01 VINEYARD, G.H.
SCATTERING OF SLOW NEUTRON BY A LIQUID
PHYS. REV., V.110, P.999-P.1010 (1958)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID DYNAMICS
..CONVOLUTION APPROXIMATION
- 58-YA-01 YARNELL, J.L./ ARNOLD, G.P./ BENDT, P.J./ KERR, E.
C.
ENERGY VS MOMENTUM RELATION FOR THE EXCITATIONS IN LIQUID
HELIUM
PHYS. REV. LETT., V.1, P.9-P.11 (1958)
HE ..EXPERIMENT/ ROTON/ DISPERSION CURVE/ LIQUID ..1.4D
K
- 59-BR-01 BROCKHOUSE, B.N./ POPE, N.K.
TIME-DEPENDENT PAIR CORRELATIONS IN LIQUID LEAD
PHYS. REV. LETT., V.3, P.259 (1959)
PB ..EXPERIMENT/ LIQUID
- 59-BR-02 BROCKHOUSE, B.N.
LATTICE VIBRATIONS OF SEMICONDUCTORS BY NEUTRON SPECTRO
METRY
J. PHYS. CHEM. SOLIDS, V.8, P.400 (1959)
GE ..EXPERIMENT/ DISPERSION RELATION

- 59-BR-03 BROCKHOUSE, B.N.
LATTICE VIBRATIONS IN SILICON AND GERMANIUM
PHYS. REV. LETT., V.2, P.256 (1959)
GE/ SI ..EXPERIMENT/ DISPERSION RELATION
- 59-BR-04 BROCKHOUSE, B.N.
DIFFUSIVE MOTIONS IN LIQUIDS AND NEUTRON SCATTERING
PHYS. REV. LETT., V.2, P.287 (1959)
H2.O/ D2.O ..SCATTERING LAW/ EXPERIMENT ..QUASI ELASTIC
SCATTERING/ ICE, 6DC, 24.5DC, 42DC, 60DC/ DIFFUSION BR
OADENING
- 59-BU-01 BURAS, B./ O-CONNER, D.
THE NEUTRON-PHONON INTERACTION IN SOLIDS
NUKLEONIKA, V.4, P.119-P.140 (1959)
NEUTRON-SCATTERING-IN-SOLIDS ..REVIEW/ NEUTRON SPECTRUS
COPY
- 59-DE-01 DE-GENNES, P.G.
LIQUID DYNAMICS AND INELASTIC SCATTERING OF NEUTRONS
PHYSICA, V.25, P.825-P.839 (1959)
NEUTRON-SCATTERING-IN-FLUIDS/ AR ..SCATTERING THEORY/
.LIQUID DYNAMICS/ MOMENTS METHOD
- 59-EG-01 EGELSTAFF, P.A.
SOLID AND LIQUID STATE RESEARCH WITH COLD NEUTRONS
BRIT. J. APPL. PHYS., V.10, P.1-P.9 (1959)
REVIEW-ARTICLES ..NEUTRON SPECTROSCOPY
- 59-GH-01 GHOSE, A./ PALEVSKY, H./ HUGHES, D.J./ PELAH, I./
EISENHAUER, C.M.
LATTICE VIBRATIONS IN GERMANIUM BY SCATTERING OF COLD N
EUTRONS
PHYS. REV., V.113, P.49 (1959)
GE ..EXPERIMENT/ DISPERSION RELATION
- 59-HU-01 HUGHES, D.J./ PALEVSKY, H./ KLEY, W./ TUNKELO, E.
ATOMIC MOTIONS IN WATER BY SCATTERING OF COLD NEUTRONS
PHYS. REV. LETT., V.3, P.91-P.93 (1959)
H2.O ..LIQUID/ EXPERIMENT ..BE-FILTER-TOF
- 59-KO-01 KOTHARI, L.S./ SINGWI, K.S.
INTERACTION OF THERMAL NEUTRONS WITH SOLIDS
SOLID STATE PHYSICS (ED. BY SEITZ AND TURNBULL), V
, 8, P.109 (1959)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ DISPERSIO
N RELATION/ LATTICE DYNAMICS/ SIGMA(E-E-PRIME)/ FREQUEN
CY SPECTRUM/ CORRELATION FUNCTION/ SCATTERING THEORY
- 59-MC-01 MCCALL, D.W./ DOUGLASS, D.C./ ANDERSON, E.W.
SELF-DIFFUSION IN LIQUIDS, PARAFFIN HYDROCARBONS
- PHYS. FLUIDS, V.2, P.87 (1959)
PARAFFINE ..DIFFUSION PARAMETER/ EXPERIMENT/ LIQUID
- 59-PE-01 PELAH, I./ WHITTEMORE, W.L./ MC-REYNOLDS, A.W.
ENERGY DISTRIBUTION OF NEUTRONS SCATTERED BY LIQUID LEA
D
PHYS. REV., V.113, P.767-P.768 (1959)
PB ..EXPERIMENT/ LIQUID/ SOLID/ TOF/ NEUTRON SPECTRUM/
QUASI-ELASTIC PEAK
- 59-SW-01 SWALIN, R.A.
ON THE THEORY OF SELF-DIFFUSION IN LIQUID METALS
ACTA META., V.7, P.736-P.740 (1959)
THEORY-OF-FLUIDS ..DIFFUSION/ FLUCTUATION THEORY
- 59-VO-01 VOLKIN, H. C.
SLOW NEUTRON SCATTERING BY ROTATORS
PHYS. REV., V.113, P.866-P.874 (1959)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ GAS/ MOLECULAR R
OTATIONS/ SCATTERING THEORY
- 59-YA-01 YARNELL, J.L./ ARNOLD, G.P./ BENDT, P.J./ KERR, E.
C.
EXCITATIONS IN LIQUID HELIUM, NEUTRON SCATTERING MEASUR
EMENTS
PHYS. REV., V.113, P.1379-P.1386 (1959)
HE ..EXPERIMENT/ LIQUID/ ROTON EXCITATION/ DISPERSION R
ELATION ..1.1DK
- 60-CO-01 COHEN, M.
RELATION BETWEEN INELASTIC NEUTRON SCATTERING AND THERM
ODYNAMIC FUNCTIONS OF LIQUID HELIUM
PHYS. REV., V.118, P.27-P.41 (1960)
HE ..THEORY/ LIQUID
- 60-CO-02 COHEN, M.
RELATION BETWEEN INELASTIC NEUTRON SCATTERING AND THERM
ODYNAMIC FUNCTIONS OF LIQUID HELIUM
PHYS. REV., V.118, P.27-P.41 (1960)
HE ..THEORY-NEUTRON SCATTERING.THERMODYNAMICS
- 60-CR-01 CRIBIER, D/ JACROT, B.
QUASI-ELASTIC SCATTERING OF COLD NEUTRONS BY WATER AND
SELF-DIFFUSION COEFFICIENT OF THE LIQUIDS (IN FRENCH)
J. PHYS., PARIS, V.21, P.69-P.71 (1960)
H2.O ..EXPERIMENT/ LIQUID/ DISPERSION RELATION/ DIFFUSI
ON PARAMETER
- 60-EG-01 EGELSTAFF, P.A.
THE MEASUREMENT OF THE SCATTERING LAW FOR A MODERATOR
AERE-R-3593 (1960)
REVIEW-ARTICLES ..EXPERIMENTAL ARRANGEMENTS AND METHOD/

SCATTERING LAW MEASUREMENTS

- 60-HU-01 HUGHES, D.J./ PALEVSKY, H./ KLEY, W./ TUNKALO, E.
ATOMIC MOTIONS IN WATER BY SCATTERING OF COLD NEUTRONS
PHYS. REV., V.119, P.872-P.881 (1960)
H2.O ..SIGMA(E-PRIME,THETA)
- 60-KH-01 KHUBCHANDARI, P.G./ RAHMAN, A.
SCATTERING OF SLOW NEUTRONS BY THE WATER MOLECULE
J. NUCL. ENERGY, PT. A, V.11, P.89-P.94 (1960)
H2.O ..THEORY/ ELASTIC SCATTERING CROSS SECTION ..RIGID
ASYMMETRIC ROTOR MODEL
- 60-LA-01 LARSSON, K.E./ HOLMRYD, S./ OTNES, K.
AN EXPERIMENTAL STUDY OF THE SCATTERING OF SLOW NEUTRON
S FROM H2.O AND D2.O
AE-47 (1960)
H2.O/ D2.O ..EXPERIMENT/ FREQUENCY DISTRIBUTION ..LIQUID
DYNAMICS
- 60-LA-02 LARSSON, K.E./ DAHLBORG, U./ HOLMRYD, S.
A STUDY OF SOME TEMPERATURE EFFECTS ON THE PHONONS IN A
LUMINUM BY USE OF COLD NEUTRONS
ARK. FYS., V.17, P.369 (1960)
AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
..293-932DK
- 60-NE-01 NELKIN, M.S.
EFFECTS OF CHEMICAL BINDING ON NUCLEAR RECOIL
PHYS. REV., V.119, P.1060-P.1068 (1960)
SCATTERING-THEORIES ..SIGMA(E) ..DOPPLER-BROADENING OF
ABSORPTION RESONANCE/ SLOW NEUTRON SCATTERING
- 60-NE-02 NELKIN, M.
SCATTERING OF SLOW NEUTRONS BY WATER
PHYS. REV., V.119, P.741-P.746 (1960)
NEUTRON-SCATTERING-IN-FLUIDS/ H2.O ..THEORY/ MOLECULAR
DYNAMICS ..DIFFERENTIAL AND TOTAL CROSS SECTION
- 60-RU-01 RUSH, J.J./ TAYLOR, T.I./ HAVENS-JR, W.W.
PROTON MOTIONS IN AMMONIUM HALIDES BY SLOW NEUTRON CROSS
SECTION MEASUREMENTS
PHYS. REV. LETT., V.5, P.507-P.509 (1960)
N.H3/ N.H4.I/ N.H4.BR/ N.H4.CL/ N.H4.F ..EXPERIMENT/ MO
LECULAR DYNAMICS ..TOTAL CROSS SECTION VS. NEUTRON WAVE
LENGTH
- 60-SA-01 SAUNDERSON, D.H.
PRESSURE DEPENDENCE OF THE TA(100) ZONE-BOUNDARY PHONON
FREQUENCY IN RUBIDIUM IODIDE
PHYS. REV. LETT., V.17, P.530 (1960)
RB.I ..EXPERIMENT/ LATTICE DYNAMICS
- 60-SC-01 SCHOFIELD, P.
SPACE-TIME CORRELATION FUNCTION FORMALISM FOR SLOW NEUT
RON SCATTERING
PHYS. REV. LETT., V.4, P.239-P.240 (1960)
SCATTERING-THEORIES ..SCATTERING THEORY
- 60-SI-01 SINGWI, K.S./ SJOELANDER, A.
DIFFUSIVE MOTIONS IN WATER AND COLD NEUTRON SCATTERING
PHYS. REV., V.119, P.863 (1960)
H2.O ..THEORY/ MOLECULAR DYNAMICS ..LIQUID DYNAMICS/ QU
ASI-CRYSTALLINE MODEL
- 60-SI-02 SINGWI, K.S./ SJOELANDER, A.
RESONANCE ABSORPTION OF NUCLEAR GAMMA RAYS AND THE DYNA
MICS OF ATOMIC MOTIONS
PHYS. REV., V.120, P.1093-P.1102 (1960)
MISCELLANEOUS ..THEORY/ MOESSBAUER EFFECT
- 60-VI-01 VINEYARD, G.H.
NEUTRON SCATTERING BY FLUIDS AND THE LAW OF CORRESPONDING
STATE
PHYS. REV., V.119, P.1150-P.1153 (1960)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
- 60-VI-02 VINEYARD, G.H.
MOLECULAR DISTRIBUTION FUNCTIONS INVOLVING TWO TIMES
PHYS. FLUIDS, V.3, P.339-P.345 (1960)
THEORY-OF-FLUIDS ..KINETIC THEORY/ TWO TIMES/ TWO BODIES
- 60-VO-01 VOLKIN, H.C.
SLOW-NEUTRON SCATTERING BY ROTATORS II
PHYS. REV., V.117, P.1029 (1960)
SCATTERING-THEORIES ..MOLECULAR DYNAMICS/ THEORY/ SIGMA
(E, E-PRIME, THETA) ..MOLECULAR ROTATOR
- 60-WO-01 WOODS, A.D.B./ COCHRAN, W./ BROCKHOUSE, B.N.
LATTICE DYNAMICS OF ALKALI HALIDE CRYSTAL
PHYS. REV., V.119, P.980 (1960)
NA.I ..EXPERIMENT/ DISPERSION RELATION
- 61-BA-01 BAYM, G.
THERMODYNAMIC GREEN-S FUNCTION METHODS IN NEUTRON SCATT
ERING BY CRYSTALS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQU
IDS, IAEA, P.53-P.59 (1961)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE DYNAMICS
/ SCATTERING FUNCTION
- 61-BE-01 BELL, J.
SUMMIT, AN IBM-7090 PROGRAM FOR THE COMPUTATION OF CRYSTAL
LATTICE DYNAMICS

TALLINE SCATTERING KERNELS
GA-2492 (1961)
COMPUTER-CODES

61-BE-02 BERGSMÄ, J./ GOEDKOOP, J.A.
INELASTIC NEUTRON SCATTERING EXPERIMENTS ON A FEW METAL
HYDRIDES
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, P.501 (1961)
PD-H/ AL-TH-H/ CA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTIO
N

61-BR-01 BROCKHOUSE, B.N./ RAO, K.R./ WOODS, A.D.B.
IMAGE OF THE FERM SURFACE IN THE LATTICE VIBRATIONS OF
LEAD
PHYS. REV. LETT., V.7, P.93 (1961)

PB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION

61-BR-02 BROCKHOUSE, B.N./ ARASE, T./ CAGLIOTTI, G./ SAKAMOT
O. M./ SINCLAIR, R.N.//
CRYSTAL DYNAMICS OF LEAD

INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, P.531-P.548 (1961)
PB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/
PHONON LIFE TIME

61-BR-03 BRUGGER, R.M.
SLOW NEUTRON INELASTIC SCATTERING MEASUREMENTS AT MTR
INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQ
UIDS, IAEA, P.277 (1961)
ZR-H/ H2.O/ BENZENE/ PARAFFINE/ ALCOHOL ..SIGMA (E,E-PR
IME, THETA)/ EXPERIMENT/ LIQUIDS/ TOF

61-CH-01 CHUDLEY, C.T./ ELLIOTT, R.J.
NEUTRON SCATTERING FROM A LIQUID ON A JUMP DIFFUSION MO
DEL
PROC. PHYS. SOC., LONDON, V.77, P.353-P.361 (1961)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
/ JUMP DIFFUSION MODEL

61-CL-01 CLAYTON, G.T./ HEATON, L.
NEUTRON DIFFRACTION STUDY OF KRYPTON IN THE LIQUID STAT
E
PHYS. REV., V.121, P.649-P.653 (1961)
KR ..EXPERIMENT/ STRUCTURE FACTOR/ LIQUID/ RADIAL DISTR
IBUTION ..117-133,153,183 AND 210DK

61-CR-01 CRIBIER, D./ JACROT, B./ SAINT-JAMES, D.
NEUTRON SCATTERING BY PHONON IN A SINGLE CRYSTAL (IN FR
ENCH)
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, P.549 (1961)

CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION

61-CR-02 CRIBIER, D./ JACROT, B.
QUASI-ELASTIC SCATTERING OF COLD NEUTRONS BY WATER AND
SELF-DIFFUSION COEFFICIENT OF THE LIQUIDS (IN FRENCH)
INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQU
UIDS, IAEA, P.347 (1961)
H2.O ..EXPERIMENT ..QUASI ELASTIC SCATTERING/ 27DC/ 43D
C

61-DE-01 DE-GENNES, P.G.
NEUTRON SCATTERING BY 'NORMAL' LIQUIDS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, P.239-P.249 (1961)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ NORMAL LIQUIDS

61-DO-01 DOLLING, G.
PHONON DISPERSION RELATIONS FOR A SILICON SINGLS CRYSTA
L
INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQU
UIDS, IAEA, P.563 (1961)
SI ..EXPERIMENT/ DISPERSION RELATION

61-EG-01 EGELSTAFF, P.A./ COCKING, S.J./ ROYSTON, R.
THE THERMAL NEUTRON SCATTERING LAW FOR LIGHT AND HEAVY
WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, P.309 (1961)
H2.O/ D2.O/ PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTIO
N/ FREQUENCY DISTRIBUTION

61-EG-02 EGELSTAFF, P.A./ COCKING, S.J.
THE PHONON FREQUENCY DISTRIBUTION IN GRAPHITE AT SEVERA
L TEMPERATURE
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, P.569 (1961)
GRAPHITE ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY SPECTR
UM ..24DC/ 336DC/ 425DC/ 610DC/ TOF

61-EG-03 EGELSTAFF, P.A.
THE TREATMENT OF THERMAL NEUTRON SCATTERING LAW DATA
AERE-R-3622 (1961)
SCATTERING-THEORIES ..SCATTERING THEORY ..DATA TREATMEN
T

61-EG-04 EGELSTAFF, P.A.
THE THEORY OF THE THERMAL-NEUTRON SCATTERING LAW
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, P.25-P.38 (1961)
SCATTERING-THEORIES ..SCATTERING THEORY/ SCATTERING FUN
CTION

- 61-EL-01 ELLIOTT, R.J./ STERN, H.
LINE WIDTHS IN NEUTRON-PHONON AND NEUTRON-MAGNON SCATTERING
- 61-GI-01 GISSLER, W./ REINSCH, C./ SPRINGER, T.
INVESTIGATION OF NEUTRON SCATTERING CROSS SECTION FOR HEAVY ICE NEAR THE BRAGG CUT-OFF WAVELENGTH (IN GERMANY)
Z, KRISTALLOGR., V.116, P.328-P.344 (1961)
D2.0 ..EXPERIMENT/ THEORY/ SIGMA(E) ..4DK/ 77DK
- 61-GR-01 GRIFFING, G.W.
INFLUENCE OF THE ROTATIONAL LEVELS ON THE SCATTERING OF SLOW-NEUTRONS BY GASEOUS METHANE
PHYS. REV., V.124, P.1489 (1961)
C.H4 ..THEORY/ MOLECULAR DYNAMICS/ GAS/ DIFFERENTIAL CROSS SECTION
- 61-HE-01 HEINLOTH, K./ SPRINGER, T.
THE MEASUREMENT OF THE TOTAL CROSS SECTION OF H2.0 BETWEEN -150 AND +200DC WITH VERY SLOW NEUTRONS
INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQUIDS, IAEA, P.323 (1961)
H2.0 ..SIGMA(E)/ EXPERIMENT ..-150DC--+200DC
- 61-HE-02 HEINLOTH, K.
SCATTERING OF SUBTHERMAL NEUTRONS ON H2.0, C, H2.02 AND C6,H6
Z, PHYS., V.163, P.218 (1961)
H2.0/ C6,H6/ C.H2.02 ..SIGMA(E)/ EXPERIMENT/ GAS/ LIQUID/ SOLID/ KRIEGER-NELKIN MODEL ..TRANSMISSION
- 61-HE-03 HENSHAW, D.G./ WOODS, A.D.B.
MODES OF ATOMIC MOTIONS IN LIQUID HELLIUM BY INELASTIC SCATTERING OF NEUTRONS
PHYS. REV., V.121, P.1266-P.1274 (1961)
HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION ..1.78-4.21DK
- 61-HO-01 HONECK, H.C.
GAKER
BNL-5826 (1961)
COMPUTER-CODES
- 61-IY-01 IYENGAR, P.K./ SATYA-MURTHY, N.S./ DASANNACHARYA, B.A.
INELASTIC SCATTERING OF NEUTRONS FROM IRON
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.555 (1961)
- FE ..EXPERIMENT/ DISPERSION RELATION
- 61-KR-01 KRIEGER, I.J.
INFLUENCE OF ERGODIC BEHAVIOR ON THE SCATTERING OF SLOW NEUTRONS BY HARMONIC OSCILLATOR
PHYS. REV., V.121, P.1388-P.1390 (1961)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY
- 61-LA-01 LARSSON, K.E./ HOLMRYD, S./ OTNES, K.
COLD NEUTRON SCATTERING EXPERIMENTS ON LIGHT AND HEAVY WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.329 (1961)
H2.0/ D2.0 ..EXPERIMENT
- 61-LA-02 LARSSON, K.E./ HOLMRYD, S./ DAHLBORG, V.
MEASUREMENTS OF THE TEMPERATURE DEPENDENCE OF THE PHONONS IN ALUMINIUM
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.587 (1961)
AL ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 61-MA-01 MARSHALL, W./ STUART, R.
THE SCATTERING OF NEUTRONS FROM POLYCRYSTALLINE MATERIALS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.75-P.84 (1961)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SIGMA(E) ..PLACZEK-S INCOHERENT APPROXIMATION
- 61-MC-01 MCLATCHIE, R.C.F./ HEARD, C./ EGELSTAFF, P.A./ SCHOFIELD, P.
EXAMPLES OF THE THERMAL NEUTRON SCATTERING LAW
AERE-R-3847 (1961)
SCATTERING-THEORIES ..SCATTERING LAW/ DEBYE APPROXIMATION/ SOLID/ LIQUID/ THEORY
- 61-MI-01 MIKKE, K.
THE SCATTERING OF SLOW NEUTRONS BY LIGHT AND HEAVY WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.351-P.356 (1961)
H2.0/ D2.0 ..EXPERIMENT
- 61-MO-01 MORALES-AMADO, A./ OSBORN, R.K.
SLOW NEUTRON SCATTERING BY NORMAL LIQUIDS ACCORDING TO THE SMEARED POTENTIAL MODEL
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.251-P.256 (1961)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
- 61-NE-01 NELKIN, M.

- SLOW-NEUTRON INELASTIC SCATTERING AND NEUTRON THERMALIZATION
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.3-P.24 (1961)
- REVIEW-ARTICLES ..SCATTERING THEORY ..NEUTRON THERMALIZATION
- 61-PA-01 PALEVSKY, H.
A STUDY OF THE DIFFUSIVE MOTIONS OF LIQUIDS BY MEANS OF COLD-NEUTRON SCATTERING EXPERIMENTS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.265 (1961)
- H₂O/ PB/ SN ..EXPERIMENT/ LIQUID ..ROOM TEMP., 45DC FOR R H₂O/ 462DC FOR PB/ 350DC FOR SN/ BE-FILTER METHOD/ QUASI ELASTIC SCATTERING
- 61-PA-02 PALEVSKY, H.
COLD-NEUTRON SCATTERING EXPERIMENTS WITH LIQUID HELIUM
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.223 (1961)
- HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
- 61-PA-03 PARKS, D.E.
RELATION OF CRYSTAL SYMMETRY IN GRAPHITE TO LATTICE VIBRATIONS ON THEIR INTERACTION WITH SLOW NEUTRONS
GA-2125 (1961)
- GRAPHITE ..LATTICE DYNAMICS
- 61-PA-04 PARKS, D.E.
THE CALCULATION OF THERMAL-NEUTRON SCATTERING KERNELS IN GRAPHITE
GA-2488 (1961)
- GRAPHITE ..THEORY ..SCATTERING KERNELS
- 61-PE-01 PELAH, I./ LEEKOWITE, I.
INELASTIC NEUTRON SPECTRA FROM FERRO-ELECTRIC AND PARAELECTRIC BaTiO₃
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.601 (1961)
- BaTiO₃ ..FERROELECTRICITY/ PARAELECTRICITY/ EXPERIMENT
- 61-RA-01 RAHMAN, A./ SINGWI, K.S./ SJOELANDER, A.
DYNAMICS OF ATOMIC MOTIONS IN LIQUIDS AND COLD NEUTRON SCATTERING
PHYS. REV., V.122, P.9-P.12 (1961)
- NEUTRON-SCATTERING-IN-FLUIDS/ PB ..THEORY ..LIQUID DYNAMICS
- 61-RA-02 RAHMAN, A.
SCATTERING OF SLOW NEUTRONS BY MOLECULES
J, NUCL, ENERGY, PT. A, V.13, P.128-P.132 (1961)
- NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ SCATTERING FUNCTION
- 61-RA-03 RAHMAN, A.
SCATTERING OF SLOW NEUTRONS BY MOLECULES
J, NUCL, ENERGY, PT. A, V.13, P.128-P.132 (1961)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ MOLECULAR DYNAMICS/ C,H₄
- 61-RA-04 RANDOLPH, P.D./ BRUGGER, R.M./ STRONG, K.A./ SCHMUNK, R.E.
INELASTIC SCATTERING OF SLOW NEUTRONS FROM METHANE
PHYS. REV., V.124, P.460-P.469 (1961)
- METHANE ..GAS/ SCATTERING LAW/ EXPERIMENT/ TOF/ MOLECULAR DYNAMICS ..ROOM TEMP.
- 61-RI-01 RICE, S.A./ ALLNATT, A.R.
ON THE KINETIC THEORY OF DENSE FLUIDS, 4, SINGLET DISTRIBUTION FUNCTION FOR RIGID SPHERES WITH AN ATTRACTIVE POTENTIAL
J, CHEM, PHYS., V.34, P.2144-P.2155 (1961)
- THEORY-OF-FLUIDS ..LIQUID DYNAMICS
- 61-RU-01 RUSH, J.J./ TAYLOR, T.I./ HAVENS-JR, W.W.
PROTON MOTIONS IN SOLIDS BY SLOW NEUTRON SCATTERING CROSS SECTIONS
J, CHEM, PHYS., V.35, P.2265-P.2266 (1961)
- K.H₂P.O₄/ (N.H₄)₂CR.O₄/ (N.H₄)₂CR₂O₇/ N.H₄C.N.S/ N.H₄CL.O₄ ..EXPERIMENT/ MOLECULAR DYNAMICS ..TOTAL CROSS SECTION VS. NEUTRON WAVELENGTH
- 61-SA-01 SARMA, G.
SCATTERING OF SLOW NEUTRONS BY LIQUID HYDROGEN (IN FRENCH)
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.397-P.408 (1961)
- H₂ ..THEORY/ MOLECULAR DYNAMICS/ LIQUID
- 61-SC-01 SCALETTAR, R.
THE EFFECT OF CRYSTAL ANHARMONICITIES ON NEUTRON SCATTERING
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.101-P.107 (1961)
- NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SCATTERING FUNCTION
- 61-SC-02 SCHOFIELD, P.
SOME PROPERTIES OF THE SPACE-TIME CORRELATION FUNCTION
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.39-P.50 (1961)
- SCATTERING-THEORIES ..SCATTERING THEORY ..SPACE-TIME CORRELATION FUNCTION

- 61-SP-01 SPRINGER, T.
SCATTERING OF SLOW NEUTRON IN WATER, ICE AND WATER VAPOUR
NUKLEONIK, V.3, P.110 (1961)
H₂O ..THEORY/ EXPERIMENT/ SOLID/ LIQUID/ GAS/ SIGMA (E)/ SIGMA (THETA)/ FREQUENCY SPECTRUM
- 61-SP-02 SPRINGER, T./ WIEDMAN, W.
INVESTIGATIONS OF THE SCATTERING CROSS SECTION IN ICE FOR VERY SLOW NEUTRONS AT 40K
Z, PHYS., V.164, P.111-P.119 (1961)
H₂O ..EXPERIMENT/ SIGMA(E) ..ICE
- 61-ST-01 STILLER, H.H./ DANNER, H.R.
QUASI-ELASTIC AND INELASTIC SCATTERING OF COLD NEUTRONS FROM WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.363-P.373 (1961)
H₂O ..EXPERIMENT/ SIGMA(THETA), E
- 61-TU-01 TURBERFIELD, K.C./ EGELSTAFF, P.A.
THE PHONON FREQUENCY DISTRIBUTION IN VANADIUM AT SEVERAL TEMPERATURES
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.581 (1961)
V ..EXPERIMENT/ SOLID/ FREQUENCY SPECTRUM
- 61-TU-02 TURNER, R.E.
THE QUASI-CLASSICAL APPROXIMATION FOR NEUTRON SCATTERING
PHYSICA, V.27, P.260-P.264 (1961)
SCATTERING-THEORIES ..THEORY/
- 61-WH-01 WHITTEMORE, W.L./ MCREYNOLDS, A.W.
INELASTIC SCATTERING OF THERMAL NEUTRONS PRODUCED BY AN ELECTRON ACCELERATOR
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, P.511-P.529 (1961)
H₂O/ D₂O ..EXPERIMENT
- 61-WO-01 WOODS, A.D.B./ BROCKHOUSE, B.N./ SAKAMOTO, M./ SINCLAIR, R.N.
ENERGY DISTRIBUTIONS OF NEUTRON SCATTERED FROM GRAPHITE, LIGHT AND HEAVY WATER, ICE, ZIRCONIUM HYDRIDE, LITHIUM HYDRIDE, SODIUM HYDRIDE AND AMMONIUM CHLORIDE BY THE BERYLLIUM DETECTOR METHOD
INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQUIDS, IAEA, P.487 (1961)
GRAPHITE/ H₂O/ D₂O/ ZR-H/ LI-H/ NA-H/ N-H₄.CL ..EXPERIMENT/ CRYSTAL SPECTROMETER/ FREQUENCY DISTRIBUTION ..BERYLLIUM DETECTOR METHOD
- 62-AA-01 AAMODT, P./ CASE, K.M./ ROSENBAUM, M./ ZWEIFEL, P.F.
QUASI-CLASSICAL TREATMENT OF NEUTRON SCATTERING
PHYS. REV., V.126, P.1165-P.1167 (1962)
SCATTERING-THEORIES ..SCATTERING THEORY
- 62-BE-01 BECKA, L.N.
FREQUENCY DISTRIBUTION OF HEXAMETHYLENETETRAMINE CRYSTALS
J. CHEM. PHYS., V.37, P.431-P.432 (1962)
HEXAMETHYLENETETRAMINE ..EXPERIMENT/ NEUTRON SPECTROMETER ..80DK/ 300DK/
- 62-BO-01 BOFFI, V.C./ MOLINARI, V.C./ PARKS, D.E.
SLOW NEUTRON SCATTERING AND THERMALIZATION BY BENZENE AND OTHER POLYPHENYLS
BNL-719 (C-32), V.1, P.69 (1962)
BENZENE ..THEORY/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION ..SCATTERING CROSS SECTION/ NEUTRON SPECTRUM
- 62-BR-01 BROCKHOUSE, B.N./ ARASE, T./ CAGLIOTTI, G./ RAO, K.R./ WOODS, A.D.B.
CRYSTAL DYNAMICS OF LEAD 1. DISPERSION CURVES AT 100DK
PHYS. REV., V.128, P.1099 (1962)
PB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CRYSTAL SPECTROMETER/ 100DK
- 62-BR-02 BRUGGER, R.M.
EXPERIMENTAL INFORMATION FOR THERMALIZATION PROBLEMS
BNL-719 (C-32), V.1, P.1 (1962)
METHANE/ H₂O/ D₂O/ PROPANE ..THEORY/ EXPERIMENT/ SCATTERING FUNCTION
- 62-BR-03 BRUGGER, R.M.
SCATTERING OF SLOW NEUTRONS BY SOLID AND LIQUID TERPHENYLS
PHYS. REV., V.126, P.29 (1962)
TERPHENYL ..SCATTERING LAW/ EXPERIMENT/ SOLID/ LIQUID ..23DC/ 207DC
- 62-BR-04 BRUGGER, R.M.
COMPILATION OF REDUCED SLOW NEUTRON PARTIAL DIFFERENTIAL SCATTERING CROSS SECTIONS
BNL-719 (C-32), V.1, P.3 (1962)
BE/ B₂O/ GRAPHITE/ H₂O/ D₂O/ METHANE/ PROPANE/ TERPHENYL/ COMPILATIONS ..SCATTERING FUNCTION/ SIGMA(E,E-PRIME,THETA)
- 62-CA-01 CAGLIOTTI, G./ RICCI, F.P.
THE STRUCTURE OF LIQUID BROMINE
NUOVO CIM., V.24, P.103 (1962)

- BR ., LIQUID/ EXPERIMENT
- 62-CO-01 COCKING, S.J./ TURBERFIELD, K.C.
THE DYNAMICS OF LIQUID SODIUM BY NEUTRON SCATTERING
PROC. PHYS. SOC., LONDON, V.80, P.1201-P.1204 (1962)
- NA ., EXPERIMENT/ TOF SPECTRA ., 110DC/ 80DC
- 62-CO-02 COLE, G.H.A.
SCATTERING OF SMALL WAVE LENGTH NEUTRONS BY A GAS OF HARD SPHERES
PHYS. REV., V.126, P.393-P.398 (1962)
- NEUTRON-SCATTERING-IN-FLUIDS ., THEORY/ ELASTIC CROSS SECTION
- 62-CO-03 COLLINS, M.F.
LATTICE DYNAMICS OF MAGNESIUM
PROC. PHYS. SOC., LONDON, V.80, P.362 (1962)
- MG ., EXPERIMENT/ SOLID/ DISPERSION RELATION
- 62-CO-04 COTTER, M.J.
INELASTIC SCATTERING OF COLD NEUTRONS BY SOLID AND LIQUID LEAD
DISSERTATION, FORDHAM UNIVERSITY, NEW YORK (1962)
- PB ., EXPERIMENT/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION
- 62-CO-05 COWLEY, R.A.
TEMPERATURE DEPENDENCE OF A TRANSVERSE OPTIC MODE IN STRONTIUM TITANATE
PHYS. REV. LETT., V.9, P.159 (1962)
- SR.11.03 ., EXPERIMENT/ DISPERSION RELATION
- 62-DO-01 DOLLING, G./ BROCKHOUSE, B.N.
LATTICE VIBRATIONS IN PYROLITIC GRAPHITE
PHYS. REV., V.128, P.1120-P.1123 (1962)
- GRAPHITE ., EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
- 62-EG-01 EGELSTAFF, P.A.
NEUTRON SCATTERING STUDIES IN LIQUID DIFFUSION
ADVAN. PHYS., V.11, P.203 (1962)
- NEUTRON-SCATTERING-IN-FLUIDS/ H₂O ., THEORY/ LIQUID ., LIQUID DYNAMICS
- 62-EG-02 EGELSTAFF, P.A.
COMPILATION OF EARLY SCATTERING LAW DATA
AERE-3931 (1962)
- GRAPHITE/ H₂O/ D₂O/ COMPILATIONS ., SCATTERING LAW ., 24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR H₂O/ 24DC FOR D₂O
- 62-EG-03 EGELSTAFF, P.A./ SCHOFIELD, P.
- ON THE EVALUATION OF THE THERMAL NEUTRON SCATTERING LAW
NUCL. SCI. ENG., V.12, P.260 (1962)
- SCATTERING-THEORIES/ H₂O/ PB ., EXPERIMENT/ THEORY/ LIQUID/ DIFFUSION PARAMETER ., ROOM TEMPERATURE FOR H₂O/ MELTING POINT FOR PB
- 62-EG-04 EGELSTAFF, P.A.
THE SCATTERING OF THERMAL NEUTRONS BY MODERATORS
NUCL. SCI. ENG., V.12, P.250-P.259 (1962)
- H₂O/ D₂O/ GRAPHITE/ BE ., SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY ., EVALUATION
- 62-EG-05 EGELSTAFF, P.A.
THE SCATTERING OF COLD NEUTRONS BY METALS
AERE-R-4101 (1962)
- MG/ BE/ PB ., THEORY/ SOLID/ LIQUID/ SIGMA(E, E-PRIME, TETA) ., METAL/ LIQUID METAL
- 62-FE-01 FERZIGAR, J.H./ LEONARD, A.
MULTIPLE SCATTERING OF NEUTRONS IN THE STATIC APPROXIMATION
PHYS. REV., V.128, P.2168-P.2190 (1962)
- SCATTERING-THEORIES ., THEORY/ DIFFRACTION
- 62-FU-01 FURUKAWA, K.
THE RADIAL DISTRIBUTION CURVES OF LIQUIDS BY DIFFRACTION METHODS
REP. PROG. PHYS., V.25, P.395 (1962)
- REVIEW-ARTICLES ., LIQUID/ EXPERIMENT/ NEUTRON SCATTERING ., RADIAL DISTRIBUTION/ X-RAY SCATTERING/ POLYATOMIC LIQUIDS/ ELECTRON SCATTERING/ LIQUID METAL/ VAN DEL WAALS LIQUIDS
- 62-GI-01 GINGRICH, N.S./ TOMPSON, C.W.
ATOMIC DISTRIBUTION IN LIQUID ARGON NEAR THE TRIPLE POINT
J. CHEM. PHYS., V.36, P.2398-P.2400 (1962)
- ARGON ., EXPERIMENT/ LIQUID ., X-RAY
- 62-GL-01 GLAUBER, R.J.
SCATTERING OF NEUTRONS BY STATISTICAL MEDIA
LECTURES IN THEORETICAL PHYSICS (ED. BY BRITTON, W.E. ET AL.), V.4, P.571-P.615 (1962)
- NEUTRON-SCATTERING-IN-FLUIDS ., THEORY
- 62-GO-01 GOESSMAN, G.
CALCULATION OF THE TOTAL CROSS SECTION FOR THE SCATTERING OF SUBTHERMAL NEUTRONS IN WATER AND ICE BY A CRYSTAL MODEL (IN GERMANY)
NUKLEONIK, V.4, P.110 (1962)
- H₂O ., THEORY/ CROSS SECTION EVALUATION

- 62-GO-02 GOLDMAN, D.T./ FEDERIGHI, F.D.
CALCULATION OF THERMAL NEUTRON FLUX SPECTRA IN AN INFINITE POLYETHYLENE MODERATED MEDIUM WITH VARYING AMOUNTS OF ABSORPTION
BNL-719 (C-32), V.1, P.100 (1962)
POLYETHYLENE SCATTERING THEORY/ NEUTRON SPECTRUM/ FREQUENCY DISTRIBUTION
- 62-GR-01 GRIFFING, G.W.
INFLUENCE OF INTERFERENCE SCATTERING ON THE SCATTERING OF SLOW NEUTRONS BY GASEOUS METHANE
PHYS. REV., V.127, P.1179-P.1181 (1962)
METHANE GAS/ EXPERIMENT/ CALCULATION
- 62-HA-01 HAYWOOD, B.C./ THORSON, I.M.
THE SCATTERING LAW FOR LIGHT AND HEAVY WATER AT 20DC AND 150DC
BNL-719 (C-32), V.1, P.26 (1962)
D2.O/ H2.O EXPERIMENT/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION .20DC/ 150DC
- 62-HO-01 HONECK, B.C.
AN INCOHERENT THERMAL SCATTERING MODEL FOR HEAVY WATER
TRANS. AM. NUCL. SOC., V.5, P.47-P.48 (1962)
D2.O SIGMA(E) CALCULATION
- 62-KO-01 KOKKEDDEE, J.J.J.
INFLUENCE OF ELECTRON-PHONON INTERACTION ON THE SCATTERING OF NEUTRONS BY CONDUCTING CRYSTALS
PHYSICA, V.28, P.893-P.907 (1962)
NEUTRON-SCATTERING-IN-SOLIDS. THEORY/ ELECTRON-PHONON INTERACTIONS
- 62-KO-02 KOKKEDDEE, J.J.J.
ANHARMONIC EFFECTS IN THE COHERENT SCATTERING OF NEUTRONS BY CRYSTALS
PHYSICA, V.28, P.374-P.408 (1962)
NEUTRON-SCATTERING-IN-SOLIDS THEORY. CRYSTAL. COHERENT SCATTERING. ANHARMONICITY
- 62-KO-03 KOSALY, G./ TURNER, R.E.
QUASI-CLASSICAL APPROXIMATION IN NEUTRON SCATTERING
PHYS. LETT., V.2, P.266-P.268 (1962)
SCATTERING-THEORIES QUASI-CLASSICAL APPROXIMATION
- 62-KO-04 KOTHARI, L.S.
THERMAL NEUTRON SCATTERING IN GRAPHITE
BNL-719 (C-32), V.1, P.117 (1962)
GRAPHITE DIFFUSION PARAMETER
- 62-LA-01 LARSSON, K.E./ DAHLBORG, U.
SOME VIBRATIONAL PROPERTIES OF SOLID AND LIQUID H2.O AN
- D2.O DERIVED FROM EXPERIMENTAL CROSS-SECTION MEASUREMENTS
J. NUCL. ENERGY, V.16, P.81-P.89 (1962)
H2.O/ D2.O EXPERIMENT/ LIQUID DYNAMICS .10DC TO 95DC
- 62-LA-02 LARSSON, K.E./ SINGWI, K.S.
COLD NEUTRON SCATTERING AND DIFFUSIVE MOTIONS IN HYDROGEN BOND LIQUIDS
PHYS. LETT., V.3, P.145 (1962)
H2.O LIQUID/ DIFFUSIVE MOTION/ THEORY
- 62-LE-01 LEHMAN, G.W./ WOLFRAM, T./ DEWAMES, R.E.
AXIALLY SYMMETRIC MODEL FOR LATTICE DYNAMICS OF METALS WITH APPLICATION TO CU, AL AND ZR-H2
PHYS. REV., V.128, P.1593 (1962)
CU/ AL/ ZR-H2 THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 62-LI-01 LIN, T.P./ KOENIG, J.L.
A METHOD FOR THE COMPLETE VIBRATIONAL ANALYSIS OF THE ISOLATED POLYETHYLENE CHAIN
J. MOL. SPECTROSC., V.9, P.228 (1962)
POLYETHYLENE THEORY/ SOLID/ MOLECULAR DYNAMICS
- 62-LI-02 LINDENMETER, C.W.
COMPARISON OF NEUTRON WATER KERNEL WITH EXPERIMENTS
HW-75228 (1962)
H2.O THEORY/ CROSS SECTION EVALUATION
- 62-LO-01 LOW, G.G.E.
SOME MEASUREMENTS OF PHONON DISPERSION RELATIONS IN IRON
PROC. PHYS. SOC. LONDON, V.79, P.479 (1962)
FE EXPERIMENT/ SOLID/ DISPERSION RELATION
- 62-MA-01 MACDOUGALL, J.D.
APPLICATION OF SCATTERING LAW DATA TO THE CALCULATION OF THERMAL NEUTRON SPECTRA
BNL-719 (C-32), V.1, P.121 (1962)
GRAPHITE THEORY/ NEUTRON SPECTRUM/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
- 62-MA-02 MACLATCHI, R.C.F.
LEAP, AN IBM-7090 FORTRAN II CODE FOR THE EVALUATION OF THE THERMAL NEUTRON SCATTERING LAW
HARWELL INTERNAL REPORT (1962)
COMPUTER-CODES
- 62-MA-03 MARADUDIN, A.A./ FEIN, A.E.
SCATTERING OF NEUTRONS BY ANHARMONIC CRYSTAL
PHYS. REV., V.128, P.2589-P.2608 (1962)

- NEUTRON-SCATTERING-IN-SOLIDS ..THEORY, ANHARMONICITY ..ON PHONON COHERENT SCATTERING/ PHONON PEAK WIDTH AND SHIFTS/ CUBIC CRYSTAL
- 62-MC-01 MCMURRY, H.L./ GANNON, L.J./ HESTIR, W.A.
EVALUATION OF TECHNIQUES FOR COMPUTING DIFFERENTIAL SCATTERING CROSS SECTION
BNL-719 (C-32), V.1, P.172 (1962)
METHANE/ PROPANE ..THEORY/ GAS/ DIFFERENTIAL CROSS SECTION
- 62-MC-02 MCMURRY, H.L.
CALCULATION OF DIFFERENTIAL SCATTERING CROSS SECTIONS FOR SLOW NEUTRONS
BNL-719 (C-32), V.1, P.144 (1962)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ GAS/ SCATTERING FUNCTION
- 62-MC-03 MCMURRY, H.L.
DIFFERENTIAL SCATTERING CROSS SECTIONS OF MODERATORS IN THE SHORT COLLISION TIME APPROXIMATION PART I, THEORETICAL
IDO-16749 (1962)
SCATTERING-THEORIES ..THEORY/ MOLECULAR ROTATIONS/ MOLECULAR VIBRATIONS/ SIGMA(E, E-PRIME, THETA)/ MOLECULAR DYNAMICS
- 62-MO-01 MOZER, B./ OTNES, K./ MYERS, V.M.
MEASUREMENTS OF A SIMPLE DEFECT MODE OF VIBRATION
PHYS. REV. LETT., V.8, P.278 (1962)
NI-PD ..EXPERIMENT/ LATTICE VIBRATION ..DEFECT MODE/ DISORDERED ALLOYS
- 62-NE-01 NEMETHY, G./ SCHRAGA, H.A.
STRUCTURE OF WATER AND HYDROPHOBIC BONDING IN PROTEINS, I. A MODEL FOR THE THERMODYNAMICS PROPERTIES OF LIQUID WATER
J. CHEM. PHYS., V.36, P.3382-P.3400 (1962)
H2.O ..THEORY/ MOLECULAR DYNAMICS ..LIQUID DYNAMICS
- 62-PA-01 PARKS, D.E./ BEYSTER, J.R./ WIKNER, N.F.
THERMAL NEUTRON SPECTRA IN GRAPHITE
NUCL. SCI. ENG., V.13, P.306 (1962)
GRAPHITE ..EXPERIMENT/ NEUTRON SPECTRA
- 62-PA-02 PARRY, W.E./ TURNER, R.E.
TEMPERATURE-DEPENDENT GREEN FUNCTIONS AND NEUTRON SCATTERING IN LIQUID HELIUM II
ANN. PHYS., N.Y., V.17, P.301-P.317 (1962)
HE/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERING LAW/ CORRELATION FUNCTION ..LIQUID HELIUM
- 62-PU-01 PUROHIT, S.N./ ROJAGOPAL, A.K.
SCATTERING OF THERMAL NEUTRONS IN DOPPLER APPROXIMATION
NUCL. SCI. ENG., V.13, P.250-P.260 (1962)
SCATTERING-THEORIES ..SCATTERING THEORY/ SIGMA(E)
- 62-PU-02 PUROHIT, S.N./ ROJAGOPAL, A.K.
SCATTERING OF THERMAL NEUTRONS IN THE DOPPLER APPROXIMATION
BNL-719 (C-32), V.1, P.238 (1962)
SCATTERING-THEORIES ..SCATTERING THEORY
- 62-PU-03 PUROHIT, S.N.
NEUTRON THERMALIZATION IN A CRYSTALLINE MEDIUM IN INCOHERENT APPROXIMATION
BNL-719 (C-32), V.1, P.203 (1962)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ NEUTRON SPECTRUM ..CRYSTAL
- 62-RA-01 RAHMAN, A./ SINGWI, K.S./ SJOELANDER, A.
THEORY OF SLOW NEUTRON SCATTERING BY LIQUIDS. I.
PHYS. REV., V.126, P.986-P.996 (1962)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
- 62-RA-02 RAHMAN, A./ SINGWI, K.S./ SJOELANDER, A.
STOCHASTIC MODEL OF A LIQUID AND COLD NEUTRON SCATTERING. 2.
PHYS. REV., V.126, P.997-P.1004 (1962)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
- 62-RO-01 ROSENBAUM, M./ ZWEIFEL, P.F.
COMPARISON OF CLASSICAL AND QUASI-CLASSICAL CROSS SECTIONS FOR SOME SIMPLE SYSTEMS
BNL-719 (C-32), V.1, P.276 (1962)
H2.O ..THEORY ..DIFFERENTIAL SCATTERING CROSS SECTION/ 295DK
- 62-RU-01 RUSH, J.J./ TAYLOR, T.I./ HAVENS-JR., W.W.
ROTATIONAL FREEDOM OF AMMONIUM IONS AND METHYL GROUPS BY CROSS-SECTION MEASUREMENTS WITH SLOW NEUTRONS
J. CHEM. PHYS., V.37, P.234-P.238 (1962)
N.H4.CL/ N.H4.I/ N.H4.F/ N.H4.BR/ BENZENE/ TOLUENE/ METHYLENE/ XYLENE ..EXPERIMENT/ TOTAL CROSS SECTION VS. NEUTRON WAVELENGTH
- 62-RU-02 RUSH, J.J./ SAFFORD, G.J./ TAYLOR, T.I./ HAVENS-JR., W.W.
THE EFFECT OF ROTATIONAL FREEDOM IN SEVERAL AMMONIUM SALTS AND DIMETHYL ACETYLENE ON THE INELASTIC SCATTERING OF SLOW NEUTRONS
NUCL. SCI. ENG., V.14, P.339-P.345 (1962)

- N.H4.P.F6/ (N.H4)2.S2.O8/ (N.H4)2.CR.O4/ N.H4.S.O3.F/ D
METHYLACETYLENE ..EXPERIMENT/ MOLECULAR DYNAMICS ..CRO
SS SECTION VS. NEUTRON WAVELENGTH
- 62-SA-01 SAKAMOTO, M./ BROCKHOUSE, B.N./ JOHNSON, R.H./ POP
E, N.K.
NEUTRON INELASTIC SCATTERING STUDY OF WATER
J. PHYS. SOC. JAP., V.17, SUPPL. B2, P.370 (1962)
H2.O ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..25DC/
75DC/ QUASI-ELASTIC SCATTERING/ DIFFUSION BROADENING
- 62-SC-01 SCHMUNK, R.E./ BRUGGER, R.M./ RANDOLPH, P.D./ STRO
NG, K.A.
LATTICE DYNAMICS OF BERYLLIUM
PHYS. REV., V.128, P.562 (1962)
BE ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 62-SC-02 SCHOFIELD, R.P.
THEORETICAL ASPECTS OF THE SCATTERING LAW
BNL-719 (C-32), V.1, P.1 (1962)
H2.O/ GRAPHITE ..THEORY/ COMPILATION
- 62-SO-01 SOSNOWSKI, J./ KOZUBOWSKY, J.
PHONON DISPERSION RELATIONS FOR COPPER SINGLE CRYSTAL I
N THE (100) DIRECTION
J. PHYS. CHEM. SOLIDS, V.23, P.1021 (1962)
CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
- 62-ST-01 STILLER, H./ HAUTECLER, S.
ENERGY DISTRIBUTIONS OF COLD NEUTRONS SCATTERED FROM LI
QUID METHANE
Z. PHYS., V.166, P.393-P.405 (1962)
METHANE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LIQUID
- 62-ST-02 STRONG, K.A./ MARSHALL, G.D./ BRUGGER, R.M./ RANDO
LPH, P.D.
SCATTERING OF SLOW NEUTRONS FROM PROPANE GAS
PHYS. REV., V.125, P.933 (1962)
PROPANE
- 62-TA-01 TASUMI, M./ SHIMANOCHI, T./ MIYAZAWA, T.
NORMAL VIBRATIONS AND FORCE CONSTANTS OF POLYMETHYLENE
CHAIN
J. MOL. SPECTROSC., V.9, P.261 (1962)
POLYETHYLENE ..THEORY/ SOLID/ MOLECULAR DYNAMICS
- 62-TU-01 TURBERFIELD, K.C.
THE ATOMIC MOTIONS IN LIQUID LEAD
PROC. PHYS. SOC., LONDON, V.80, P.395 (1962)
PB ..EXPERIMENT/ LIQUID ..340DC/ 520DC/ 324DC
- 62-TU-02 TURBERFIELD, K.C./ EGELSTAFF, P.A.
- PHONON FREQUENCY IN VANADIUM AT SEVERAL TEMPERATURES
PHYS. REV., V.127, P.1017 (1962)
V ..EXPERIMENT
- 62-WO-01 WOODS, A.D.B./ BROCKHOUSE, B.N./ MARCH, R.H./ BOWE
RS, R.
NORMAL VIBRATIONS OF SODIUM
PROC. PHYS. SOC., LONDON, V.79, P.440 (1962)
NA ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 62-WO-02 WOODS, A.D.B./ BROCKHOUSE, B.N./ MARCH, R.H./ STEW
ART, A.T./ BOWERS, R.
CRYSTAL DYNAMICS OF SODIUM AT 90 DK
PHYS. REV., V.128, P.1112 (1962)
NA ..EXPERIMENT/ SOLID/ DISPERSION RELATION ..90 DK
- 62-YI-01 YIP, S./ OSBORN, R.K.
HINDERED ROTATION IN LIQUIDS AND SLOW-NEUTRON SCATTERIN
G
BNL-719 (C-32), V.1, P.289 (1962)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LIQUID
D
- 62-ZE-01 ZEMLYANOV, M.G./ CHERNOPOLEKOV, N.A.
INVESTIGATION OF INELASTIC SCATTERING OF COLD NEUTRONS
BY CERTAIN HYDROGEN-CONTAINING SUBSTANCES
BNL-719 (C-32), V.1, P.66 (1962)
POLYETHYLENE/ BENZENE/ BIPHENYL ..EXPERIMENT/ MOLECULAR
DYNAMICS
- 63-AK-01 AKHIEZER, A.I./ AKHIEZER, I.A./ POMERANCHUK, I.Y.
ON SCATTERING OF SLOW NEUTRONS IN A FERMI LIQUID
NUCL. PHYS., V.40, P.139 (1963)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID ..FERMI L
IQUID/ ZERO-SOUND/ SPIN
- 63-AR-01 ARNOLD, G.P./ NERESON, N.G.
NEUTRON COHERENT-SCATTERING AMPLITUDES OF GA. IN, AS AN
D SB
PHYS. REV., V.131, P.2098 (1963)
GA/ IN/ SB/ AS ..EXPERIMENT/ SCATTERING AMPLITUDE
- 63-BA-01 BAJORIK, A./ GOLIKOV, V.V./ ZHUKOVSKAJA, I./ SHAPI
RO, A./ SHKATULA, A./
QUASI ELASTIC SCATTERING OF COLD NEUTRONS IN WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.2, P.383-P.388 (1963)
H2.O
- 63-BA-02 BALLY, D./ TARINA, V./ TODIREANU, S.
THE SCATTERING OF SLOW NEUTRONS FROM HYDROGEN AND ETHYL
ENE

- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.451 (1963)
 H₂/ ETHYLENE ..EXPERIMENT
- 63-BA-03 BARGONOV, G./ CAGLIOTI, G./ ANTAL, J.J.
 A STUDY OF THE CRYSTAL DYNAMICS OF ZINC
 PHYS. REV., V.132, P.683 (1963)
 ZN ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 63-BA-04 BARRON, T.H.K./ LEADBETTER, A.J./ MORRISON, J.A./
 SALTER, L.S.
 THE CALCULATION OF DEBYE-WALLER FACTORS FROM THERMODYNAMIC DATA
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.49 (1963)
 THEORY-OF-SOLIDS ..DEBYE-WALLER FACTOR/ THEORY
- 63-BE-01 BECKA, L.N.
 NEUTRON INELASTIC SCATTERING STUDIES OF GLOBULAR COMPOUNDS
 J. CHEM. PHYS., V.38, P.1685-P.1688 (1963)
 CYCLOHEXANE/ DIMETHYLBUTANE/ DIAZOBICYCLOOCTANE ..EXPERIMENT/ TOF
- 63-80-01 BOFFI, V.C./ MOLINARI, V.G./ PARKS, D.E.
 SLOW NEUTRON SCATTERING BY BENZEN
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.285 (1963)
 C₆H₆ ..SIGMA(E)/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ THEORY/ GAS/ MOLECULAR DYNAMICS
- 63-80-02 BOUTIN, H./ SAFFORD, G.J.
 STUDY OF LOW-FREQUENCY MOLECULAR MOTIONS IN H₂F, K₂H₂F₂, K₂H₂F₃ AND NA₂H₂F₃
 J. CHEM. PHYS., V.39, P.3135-P.3140 (1963)
 H₂F/ K₂H₂F₂/ K₂H₂F₃/ NA₂H₂F₃ ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
- 63-BR-01 BRAJOVIC, V./ BOUTIN, H./ SAFFORD, G.J./ PALEVSKY, H.
 A STUDY OF ROTATIONAL FREEDOM IN SEVERAL AMMONIUM SALTS BY SLOW NEUTRON INELASTIC SCATTERING
 J. PHYS. CHEM. SOLIDS, V.24, P.617-P.624 (1963)
 N₂H₄.P.F.6/ N₂H₄.I/ (N₂H₄)₂.S.2.O.8/ N₂H₄.S.O.3.F ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
- 63-BR-02 BROCKHOUSE, B.N./ BERGSMAN, J./ DASANNACHARYA, B.A./ POPE, N.K.
 LIQUID DYNAMICS FROM NEUTRON SPECTROMETRY
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.189-P.202 (1963)
 SN/ H₂O/ AR/ HE ..EXPERIMENT/ LIQUID
- 63-BR-03 BROCKHOUSE, B.N./ BECKA, L.N./ RAO, K.R./ WOODS, A.D.B.
 DETERMINATION OF POLARIZATION VECTORS FROM NEUTRON GROUP INTENSITIES
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.23 (1963)
 GE ..EXPERIMENT/ LATTICE DYNAMICS
- 63-BR-04 BROCKHOUSE, B.N./ DASANNACHARYA, B.A.
 TEMPERATURE EFFECTS ON LATTICE VIBRATIONS IN GERMANIUM SOLID STATE COMMUN., V.1, P.205 (1963)
 GE ..EXPERIMENT/ DISPERSION RELATION ..TEMPERATURE EFFECTS
- 63-BU-01 BUTLER, D.
 THE SCATTERING OF SLOW NEUTRONS BY HEAVY WATER. 2. INTERMOLECULAR SCATTERING
 PROC. PHYS. SOC., LONDON, V.81, P.294-P.299 (1963)
 D₂O ..LIQUID/ THEORY/ SIGMA (E)
- 63-BU-02 BUTLER, D.
 THE SCATTERING OF SLOW NEUTRONS BY HEAVY WATER. 1. INTERMOLECULAR SCATTERING
 PROC. PHYS. SOC., LONDON, V.81, P.276-P.293 (1963)
 D₂O ..LIQUID/ THEORY/ SCATTERING LAW
- 63-CA-01 CAGLIOTI, G./ ASCARELLI, P.
 NEUTRON SPECTROSCOPY WORK AT THE CNEN
 INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQUIDS, IAEA, V.1, P.239 (1963)
 BR ..LIQUID/ EXPERIMENT
- 63-CH-01 CHERNOPLKOV, N.A./ ZEMLYANOV, M.G./ BROVMAN, E.G./ CHICKERIN, A.G.
 A STUDY OF THE INELASTIC SCATTERING OF NEUTRONS IN A TITANIUM ZIRCONIUM ALLOY
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.173 (1963)
 TI-ZR ..FREQUENCY DISTRIBUTION/ EXPERIMENT ..ALLOY
- 63-CO-01 COCHRAN, W.
 LATTICE DYNAMICS OF SODIUM
 PROC. ROY. SOC., LONDON, SER. A, V.276, P.308 (1963)
 NA ..THEORY/ SOLID/ DISPERSION RELATION
- 63-CO-02 COCHRAN, W./ COWLEY, R.A.
 DIELECTRIC CONSTANTS AND LATTICE VIBRATION IN IONIC CRYSTALS
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.59 (1963)

- THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
- 63-CO-03 COCHRAN, W./ COWLEY, R.A./ BROCKHOUSE, B.N./ WOODS, A.D.B.
LATTICE DYNAMICS OF ALKALI HALIDE CRYSTALS.III. THEORETICAL
- K.BR/ NA.I ..THEORY/ PHONON DISPERSION
- 63-CO-04 COCKING, S.J.
STUDIES OF LIQUID SODIUM BY INELASTIC SCATTERING OF SLOW NEUTRONS
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.227 (1963)
- NA ..EXPERIMENT/ LIQUID ..DOUBLE DIFFERENTIAL CROSS SECTION
- 63-CO-05 COCKING, S.J./ GUNER, Z.
COMPARATIVE STUDIES OF SLOW NEUTRON SCATTERING BY SOLID AND LIQUID TIN
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.237 (1963)
- SN ..EXPERIMENT/ SOLID/ LIQUID
- 63-CO-06 COLE, G.H.A.
SCATTERING OF SMALL-WAVE LENGTH NEUTRONS BY SQUARE-MOUNT D-POTENTIAL GAS
- PHYS. REV. V.129, P.1005-P.1009 (1963)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
- 63-CO-07 COOTE, G.E./ HAYWOOD, B.C.
SCATTERING OF NEUTRONS BY LIQUID BROMINE
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.249 (1963)
- BR ..SCATTERING LAW/ EXPERIMENT/ LIQUID
- 63-CO-08 COWLEY, R.A.
THE TEMPERATURE DEPENDANCE OF SOME NORMAL MODES IN STRONTIUM TITANATE
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.229 (1963)
- SR, TI, O3 ..DISPERSION RELATION/ EXPERIMENT/ LATTICE DYNAMICS ..TEMPERATURE DEPENDENCE
- 63-CR-01 CRIBIER, D./ FARNOUX, B./ JACROT, B.
FREQUENCY OF OPTICAL VIBRATIONS IN FLUORITE CA.F2 (IN FRENCH)
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.225 (1963)
- CA.F2 ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS
- 63-DE-01 DE-BAR, R.B.
EVALUATION OF THE VAN HOVE CORRELATION FUNCTIONS FOR CERTAIN PHYSICAL SYSTEMS
- PHYS. REV. V.130, P.827-P.832 (1963)
- THEORY-OF-FLUIDS ..THEORY/ CORRELATION FUNCTION/ CRYSTALL/ LIQUID
- 63-DO-01 DOLLING, G.
LATTICE VIBRATIONS IN CRYSTALS WITH DIAMOND STRUCTURE
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.37 (1963)
- SI ..EXPERIMENT/ DISPERSION RELATION
- 63-DO-02 DOLLING, G.
LATTICE VIBRATIONS IN CRYSTALS WITH THE DIAMOND STRUCTURE
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, VIENNA, V.2, P.37-P.47 (1963)
- SI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ MODIFIED SHELL MODEL/ ROOM TEMPERATURE
- 63-EG-01 EGELSTAFF, P.A./ HAYWOOD, B.C./ THORSON, I.M.
THE MOTION OF HYDROGEN IN WATER
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.343-P.357 (1963)
- H2.O ..EXPERIMENT ..150DC, 295DK, 425DK
- 63-EG-02 EGELSTAFF, P.A.
PRACTICAL ANALYSIS OF NEUTRON SCATTERING DATA INTO SELF AND INTERFERENCE TERMS
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.65 (1963)
- SCATTERING-THEORIES ..SCATTERING LAW/ THEORY ..SELF TERM/ INTERFERENCE TERM
- 63-EG-03 EGELSTAFF, P.A.
INTERPRETATION OF COHERENT NEUTRON SCATTERING BY LIQUID
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, V.1, P.203-P.212 (1963)
- P8/ SN ..EXPERIMENT/ SCATTERING FUNCTION/ LIQUID
- 63-EG-04 EGELSTAFF, P.A./ HARRIS, D.H.C.
HIGH ENERGY MODES IN THE FREQUENCY DISTRIBUTION OF GRAPHITE
- PHYS. LETT. V.7, P.220-P.220 (1963)
- GRAPHITE ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ ..HIGH FREQUENCY MODE/ 950DC
- 63-FU-01 FUKUSHIMA, K./ IDEGUCHI, Y./ MIYAZAWA, T.
THE NORMAL VIBRATIONS OF POLYGLYCINE I
- BULL. CHEM. SOC. JAP., V.36, P.1301-P.1307 (1963)

- POLYGLYCINE ..THEORY/ NORMAL VIBRATION
- 63-GI-01 GIASER, W.
INELASTIC SCATTERING OF THERMAL NEUTRONS FROM DOWTHERM
A'
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.1, P.307 (1963)
BIPHENYL ..EXPERIMENT/ SCATTERING LAW/ MIXTURE OF BIPHE
NYL AND BIPHENYLOXYD
- 63-GI-02 GISSLER, W.
INVESTIGATION OF NEUTRON SCATTERING CROSS SECTION NEAR
THE BRAGG CUT-OFF WAVELENGTH (IN GERMANY)
Z, KRISTALLOGR., V.118, P.149 (1963)
D2-O ..THEORY/ EXPERIMENT/ SIGMA(E) ..4DK/ 77DK
- 63-GO-01 GOLDMAN, D.T./ FEDERIGHI, F.D.
CALCULATION OF THERMAL NEUTRON FLUX SPECTRA IN A POLYET
HYLENE MODERATED MEDIUM
NUCL. SCI. ENG., V.16, P.165-P.175 (1963)
POLYETHYLENE ..LIQ/ THEORY/ SIGMA (E,E-PRIME,THETA)/
NEUTRON SPECTRUM
- 63-GO-02 GOLDMAN, D.T./ FEDERIGHI, F.D.
CALCULATION OF THE INELASTIC SCATTERING OF NEUTRONS FRO
M POLYETHYLENE AND WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.1, P.389-P.404 (1963)
H2-O/ POLYETHYLENE ..CROSS SECTION EVALUATION
- 63-GR-01 GRIFFING, G.W.
SCATTERING OF SLOW NEUTRONS BY GASEOUS METHANE
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.1, P.435 (1963)
C.H4 ..SIGMA(E-PRIME,THETA)/ SCATTERING FUNCTION/ THE
ORY/ GAS/ CROSS SECTION
- 63-HA-01 HAAS, R./ KLEY, W./ KRABS, K.H./ RUBIN, R.
THE PHONON FREQUENCY DISTRIBUTION OF VANADIUM
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.2, P.145 (1963)
V ..SCATTERING LAW/ FREQUENCY DISTRIBUTION
- 63-HA-02 HAHN, H.
PERTURBATION THEORY OF ANHARMONICITY EFFECTS IN SLOW NE
UTRON INELASTIC SCATTERING BY CRYSTALS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.1, P.37 (1963)
NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ THEORY
- 63-HA-03 HAUTECLER, S./ STILLER, H.
MOLECULAR MOTIONS IN LIQUID METHANE
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.1, P.423 (1963)
C.H4 ..SIGMA(E-PRIME,THETA)/ EXPERIMENT/ MOLECULAR DY
NAMICS
- 63-HA-04 HAYWOOD, B.C./ THORSON, I.M.
FREQUENCY DISTRIBUTION OF NORMAL MODES IN GRAPHITE
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.2, P.111-P.123 (1963)
GRAPHITE ..EXPERIMENT/ FREQUENCY DISTRIBUTION
- 63-IY-01 IYENGER, P.K./ VENKATARAMAN, G./ RAO, K.R./ VIJAYA
RAGHAVAN, P.R./ ROY, A.P.
DISPERSION RELATIONS FOR PHONONS IN MAGNESIUM
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.2, P.99 (1963)
MG ..EXPERIMENT/ DISPERSION RELATION
- 63-JA-01 JANIK, J.A.
MOLECULAR DYNAMICS INVESTIGATED BY NEUTRON SCATTERING
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.243
(1963)
C.H4/ N.H4.I/ N.H4.CL/ N.H4.BR/ N.H4.S.O3.F ..SIGMA(E)/
SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ THEORY/ GAS/ LIQ/ I
D
- 63-JA-02 JANIK, J.A./ JANIK, J./ MANTAWSKI, F./ RZANY, H./
ROGALSKA, Z.//
SYSTEMATIC STUDY OF TOTAL NEUTRON SCATTERING CROSS SECT
IONS OF HYDROGEN CONTAINING MOLECULES
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.1, P.405 (1963)
C.H4/ N.H3/ H2.S/ H2.O ..SIGMA(E)/ EXPERIMENT/ LIQUID
- 63-JA-03 JANIK, J.A./ RZANY, H./ SCIESINSKI, J.
SCATTERING OF SLOW NEUTRONS BY N.H3 MOLECULES, PART 2,
SCATTERING BY LIQUID N.H3
PHYSICA, V.29, P.485-P.487 (1963)
N.H3 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID
- 63-KA-01 KADANOFF, L./ MARTIN, P.C.
HYDRODYNAMIC EQUATIONS AND CORRELATION FUNCTIONS
ANN. PHYS., N.Y., V.24, P.419-P.469 (1963)
THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION
- 63-KO-01 KOKKEDEE, J.J.J.
THEORY OF THE INFLUENCE OF PHONON-PHONON AND ELECTRON-P
HONON INTERACTIONS ON THE SCATTERING OF NEUTRONS BY CRY
STALS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.1, P.15 (1963)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY ..PHONON-PHONON I

- INTERACTION/ ELECTRON-PHONON INTERACTION
- 63-KO-02 KOTTWITS, D.A./ LEONARD-JR, B.R./ SMITH, R.B.
QUASI-ELASTIC SCATTERING BY ROOM TEMPERATURE LIGHT WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.373-P.382 (1963)
H₂O ..EXPERIMENT/ LIQUIDS ..22DC
- 63-KO-03 KOTTWITZ, D.A./ LEONARD-JR, B.R.
THE SCATTERING LAW FOR THE ROOM TEMPERATURE LIGHT WATER
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.359-P.371 (1963)
H₂O ..EXPERIMENT/ FREQUENCY DISTRIBUTION
- 63-LA-01 LARSSON, K.E./ DAHLBORG, U.
A STUDY OF THE DIFFUSIVE ATOMIC MOTIONS IN GLYCEROL AND OF THE VIBRATORY MOTIONS IN GLYCEROL AND LIGHT AND HEAVY WATER BY COLD NEUTRON SCATTERING
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.317 (1963)
D₂O/ GLYCELIN/ H₂O ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION/ TOF ..278, 295, 368, 428 AND 572DK
- 63-LI-01 LINDENMEIER, C.W./ MATSUMOTO, D.D./ SKEEN, D.R.
PROGRAM KERNEL
HW-78288 (1963)
H₂O/ POLYETHYLENE/ COMPUTER-CODES ..SCATTERING THEORY/ LIQUID/ SIGMA(E-PRIME, THETA) ..INCOHERENT
- 63-MA-01 MACDOUGALL, J.D.
PIXE
AEEW-N-318 (1963)
COMPUTER-CODES ..SIGMA(E-PRIME)/ SCATTERING LAW/ GAS/ LIQUID/SAOLID/ CROSS SECTION EVALUATION
- 63-MA-02 MALISZEWSKI, E./ SOSNOWSKI, J./ BLINOWSKI, K./ KOZUBOWSKI, J./ PADLO, I.//
NEUTRON-PHONON INTERACTION STUDIES IN COPPER, ZINC AND MAGNESIUM SINGLE CRYSTALS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.87 (1963)
ZN/ CU/ MG ..EXPERIMENT
- 63-MC-01 MCREYNOLDS, A.W./ WHITMORE, W.L.
DYNAMICS OF LIQUID HYDROGEN BY NEUTRON SCATTERING
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.263 (1963)
H ..EXPERIMENT/ LIQUID
- 63-MI-01 MICHAELL, E.W.J./ HARDY, J.R./ SAUNDERSON, D.H.
THE DISTRIBUTION OF HIGHER ENERGY NORMAL MODES IN DIAMOND
ND
- INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.49 (1963)
DIAMOND ..FREQUENCY SPECTRUM/ LATTICE DYNAMICS
- 63-MI-02 MIKKE, K./ KROH, A.
LATTICE DYNAMICS OF SOME AMMONIUM SALTS BY INVERTED FILTER METHOD
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.237 (1963)
N,H₄CL/ N,H₄BR/ N,H₄F/ N,H₄N,O₃ ..LATTICE DYNAMICS/ EXPERIMENT ..INVERTED FILTER METHOD
- 63-MI-03 MIYAZAWA, T./ FUKUSHIMA, K./ IDEGUCHI, Y.
FAR INFRARED SPECTRA AND THEIR VIBRATIONAL ASSIGNMENTS OF ISOTACTIC POLYPROPYLENE
J. POLY. SCI., PART B, V.1, P.385-P.387 (1963)
POLYPROPYLENE ..EXPERIMENT/ FAR-INFRARED SPECTROMETRY
- 63-MI-04 MIYAZAWA, T./ IDEGUCHI, Y./ FUKUSHIMA, K.
MOLECULAR VIBRATION AND STRUCTURE OF HIGH POLYMERS. 4. A GENERAL METHOD OF TREATING DEGENERATE NORMAL VIBRATIONS OF HELICAL POLYMERS AND INFRARED-ACTIVE VIBRATIONS OF ISOTACTIC POLYPROPYLENE
J. CHEM. PHYS., V.38, P.2709-P.2720 (1963)
POLYPROPYLENE ..THEORY/ INFRARED SPECTRA/ INFINITE HELICAL CHAIN POLYMER/ NORMAL MODE
- 63-MO-01 MOZER, B./ OTONES, K.
MEASUREMENTS OF THE VIBRATIONAL FREQUENCY SPECTRUM OF NICKEL-PALLADIUM ALLOYS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.162 (1963)
NI/ PD/ NI-PD ..EXPERIMENT/ LATTICE DYNAMICS ..IMPURITY MODE
- 63-MU-01 MUSGRAVE, M.J.P.
ON THE RELATION BETWEEN GRAY AND WHITE TINT PROC. ROY. SOC., LONDON, SER. A, V.272, P.503 (1963)
- SN ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION
- 63-NA-01 NAKAGAWA, Y./ WOODS, A.D.B.
LATTICE DYNAMICS OF NIOBIUM
PHYS. REV. LETT., V.11, P.271 (1963)
NB
- 63-OS-01 OSALSKII, V.S.
THEORY OF THE QUASI-ELASTIC SCATTERING OF COLD NEUTRONS IN LIQUIDS
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.5 (V.5), P.1082-P.1085 (P.789-P.791) (1963)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS

- / QUASI-CRYSTALLINE MODEL
- 63-PA-01 PALEVSKY, H./ OTNES, K./ WAKUTA, Y.
LOW FREQUENCY HYDROGEN VIBRATIONS IN POTASSIUM DIHYDROGEN PHOSPHATE
K.H.2.P.04 ..EXPERIMENT/ TOF
- 63-PA-02 PARKER, K.
THE ALDERMASTON NUCLEAR DATA LIBRARY AS AT MAY 1963
AWRE-0-70/63 (1963)
COMPILATIONS/ COMPUTER-CODES
- 63-PE-01 PELAH, L./ HAAS, R./ KLEY, W./ KREBS, K.H./ PERETT, J. J.//
OBSERVATION OF A LOW ENERGY PEAK IN THE PHONON FREQUENCY DISTRIBUTION OF VANADIUM
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.155 (1963)
V ..FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS
- 63-PL-01 PLUMMER, J.P./ SUMMERFIELD, G.C.
VALIDITY OF FERMI APPROXIMATION IN SLOW NEUTRON SCATTERING
PHYS. REV. V.131, P.1153-P.1154 (1963)
SCATTERING-THEORIES ..THEORY
- 63-RA-01 RAHMAN, A.
INTERMEDIATE SCATTERING FUNCTION IN SLOW NEUTRON SCATTERING
PHYS. REV. V.130, P.1334-P.1336 (1963)
SCATTERING-THEORIES ..SCATTERING THEORY/ SCATTERING FUNCTION
- 63-RA-02 RAPEANU, S.
INELASTIC SCATTERING OF COLD NEUTRONS IN C3#H5*(CO#D)3 AT VARIOUS TEMPERATURES
REV. ROUM. PHYS. V.13, P.913 (1963)
GLYCELINE ..EXPERIMENT/ QUASI-ELASTIC SCATTERING
- 63-RO-01 ROGALSKA, Z.
SLOW NEUTRON SCATTERING BY MOLECULES OF LIQUID METHANE
PHYSICA, V.29, P.491 (1963)
METHANE ..SIGMA(E)/ EXPERIMENT/ LIQUID ..-156DC/ 0.0057 TO 0.101EV
- 63-RO-02 ROGALSKA, Z.
SLOW NEUTRON SCATTERING BY MOLECULES OF LIQUID METHANE
PHYSICA, V.29, P.491-P.498 (1963)
METHANE ..EXPERIMENT/ TOTAL SCATTERING CROSS SECTION VS NEUTRON ENERGY/ LIQUID STATE
- 63-RZ-01 RZANY, H./ SCIESINSKI, J.
SCATTERING OF SLOW NEUTRONS BY LIQUID H2.S
PHYSICA, V.29, P.488-P.490 (1963)
H2.S ..EXPERIMENT/ TOTAL CROSS SECTION
- 63-SA-01 SAFFORD, G./ BRAJOVIC, V./ BOUTIN, H.
AN INVESTIGATION OF THE ENERGY LEVELS IN ALKALINE EARTH HYDROXIDES BY INELASTIC SCATTERING OF SLOW NEUTRONS
J. PHYS. CHEM. SOLIDS, V.24, P.771-P.777 (1963)
MG.(O.H)2/ CA.(O.H)2 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
- 63-SA-02 SAUNDERSON, D.H./ COCKING, S.J.
STUDIES OF PROTON VIBRATIONS IN GAMMA-TITANIUM HYDRIDE
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.265-P.272 (1963)
TI-H ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION
- 63-SA-03 SAUNDERSON, D.H./ RAINEY, V.S.
INELASTIC SCATTERING OF NEUTRONS BY METHYL- AND N-AMYL ALCOHOLS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.413 (1963)
ALCOHOL ..LIQUID AND GAS/ EXPERIMENT
- 63-SI-01 SINCLAIR, R.N.
THE NEUTRON SCATTERING LAW AND THE FREQUENCY DISTRIBUTION OF THE NORMAL MODES OF BERYLLIUM AND BERYLLIUM OXIDE
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.199-P.211 (1963)
BE/ BE.O ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ TOF ..293 DK
- 63-SI-02 SINGWI, K.S.
THE MOESSBAUER EFFECT AND DYNAMICS OF ATOMIC MOTIONS IN CONDENSED SYSTEMS
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.3 (1963)
REVIEW-ARTICLES ..THEORY ..MOESSBAUER EFFECT
- 63-SI-03 SINGWI, K.S./ SJOELANDER, A./ RAHMAN, A.
FREQUENCY SPECTRUM OF LIQUIDS AND COLD NEUTRON SCATTERING
INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQUIDS, IAEA, V.1, P.215-P.225 (1963)
NEUTRON-SCATTERING-IN-FLUIDS/ H2.O/ PB ..THEORY/ LIQUID / FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION
- 63-SO-01 SOUIRES, G.L.
THE FREQUENCIES OF THE NORMAL MODES OF ALUMINUM

INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.55 (1963)
 AL ..LATTICE DYNAMICS/FREQUENCY SPECTRUM

63-SQ-02 SQUIRES, G.L.
 THE RELATION BETWEEN THE INTERATOMIC FORCES AND THE FREQUENCIES OF SYMMETRY PHONONS IN CUBIC CRYSTALS
 INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQUIDS, IAEA, V.2, P.71 (1963)
 THEORY-OF-SOLIDS ..INTERATOMIC FORCE CONSTANTS/ DISPERSION RELATION/ THEORY/ SOLID ..CUBIC CRYSTAL

63-ST-01 STILLER, H./ HAUTECLER, S.
 ENERGY DISTRIBUTION OF NEUTRONS SCATTERED FROM SOLID METHANE
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.281 (1963)
 METHANE ..SOLID/ EXPERIMENT

63-SU-01 SUMMERFIELD, G.C./ ZWEIFEL, P.F.
 SLOW NEUTRON SCATTERING, SCATTERING LAW AND G(R, T)
 PHYS. REV., V.131, P.1149 (1963)
 SCATTERING-THEORIES ..SCATTERING LAW/ THEORY/ CORRELATION FUNCTION/ SCATTERING THEORY

63-TC-01 TCHERNOPLEKOV, N.A./ ZEMLYANOV, M.G./ TCHETSERIN, M.G./ LYASHCHENKO, B.G.
 INVESTIGATION OF THE PHONON SPECTRUM OF NICKEL
 INELASTIC SCATTERING OF NEUTRON IN SOLIDS AND LIQUIDS, IAEA, V.1, P.159-P.166 (1963)
 NI ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION

63-TH-01 THOMSON, B.V.
 NEUTRON SCATTERING BY ANHARMONIC CRYSTAL
 PHYS. REV., V.131, P.1420 (1963)
 NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ SOLID/ LATTICE DYNAMICS/ SCATTERING THEORY

63-TH-02 THORSON, I.M./ HAYWOOD, B.C.
 SCATTERING LAW FOR UO2
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.213 (1963)
 UO2 ..EXPERIMENT/ SOLID/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ TOF ..22 DC

63-VE-01 VENKATARAMAN, G./ USHA, K./ IYENGER, P.K.
 STUDY OF AMMONIUM HALIDES BY NEUTRON SPECTROMETRY
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.253 (1963)
 N,H4,CL/ N,H4,BR ..EXPERIMENT

63-WA-01 WAUGH, J.L.T./ DOLLING, G.

CRYSTAL DYNAMICS OF GALLIUM ARSENIDE
 PHYS. REV., V.132, P.2410 (1963)
 GA.AS ..EXPERIMENT/ DISPERSION RELATION

63-WE-01 WEBB, F.J.
 THE INELASTIC SCATTERING OF NEUTRONS BY METHANE, AMMONIA AND HYDROGEN
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.457 (1963)
 C,H4/ N,H3/ H2 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ GAUSS ..ROOM TEMPERATURE

63-WH-01 WHITTEMORE, W.L./ DANNER, H.R.
 NEUTRON INTERACTIONS IN LIQUID PARA-AND ORTH-HYDROGEN
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.1, P.273 (1963)
 H ..EXPERIMENT/ LIQUID/ SIGMA (E,E-PRIME,THETA)

63-WO-01 WOLFRAM, T./ LEHMAN, G.W./ DE-WAMES, R.E.
 LATTICE DYNAMICS OF WHITE TIN
 PHYS. REV., V.129, P.2483 (1963)
 SN ..THEORY/ SOLID/ DISPERSION RELATION

63-WO-02 WOODS, A.D.B./ BROCKHOUSE, B.N./ COWLEY, R.A./ COCHRAN, W.
 LATTICE DYNAMICS OF ALKALI HALIDE CRYSTALS 2. EXPERIMENTAL STUDIES OF K.BR AND NA.I
 PHYS. REV., V.131, P.1025 (1963)
 K.BR/ NA.I ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..90DK

63-WO-03 WOODS, A.D.B.
 CRYSTAL DYNAMICS FROM NEUTRON SPECTROMETRY
 INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.3 (1963)
 REVIEW-ARTICLES ..LATTICE DYNAMICS/ SOLID/ EXPERIMENT ..NEUTRON SPECTROMETRY

63-YI-01 YIP, S./ OSBORN, R.K.
 SLOW-NEUTRON SCATTERING BY HINDERED ROTATORS
 PHYS. REV., V.130, P.1860-P.1864 (1963)
 H2.O ..THEORY/ MOLECULAR DYNAMICS/ SIGMA(E,E-PRIME,THETA)

63-YI-02 YIP, S./ OSBORN, R.K.
 SMALL-ENERGY ROTATIONAL TRANSITIONS IN SLOW-NEUTRON SCATTERING BY WATER
 PHYS. REV., V.131, P.2547-P.2549 (1963)
 H2.O ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..SMALL ENERGY TRANSFER REGION

63-ZE-01 ZEMLYANOV, M.G./ KAGAN, Y.M./ TCHERNOPLEBOV, N.A./

- TCHTSERIN, A.G.
A STUDY OF THE PHONON SPECTRUM AND DISPERSION CURVE FOR VANADIUM
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.125 (1963)
V ..DISPERSION RELATION/ FREQUENCY SPECTRUM
- 63-ZE-02 ZEMLYANOV, M.G./ CHERNOBLEKOV, N.A.
A STUDY OF COLD NEUTRON INELASTIC SCATTERING ON CERTAIN HYDROGENOUS SUBSTANCES
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQUIDS, IAEA, V.2, P.297 (1963)
BENZENE/ BIPHENYL/ POLYETHYLENE ..INELASTIC SCATTERING SPECTRA
- 64-AL-01 ALS-NIELSEN, J./ DIETRICH, O.W.
SLOW NEUTRON CROSS SECTIONS FOR HE3, B AND AU
PHYS. REV., V.138, P.925 (1964)
HE/ B/ AU ..EXPERIMENT/ CROSS SECTION
- 64-AN-01 ANTONINI, M./ ASCARELLI, P./ CAGLIOTTI, G.
COHERENT INELASTIC SCATTERING OF SLOW NEUTRON BY A POLYATOMIC LIQUID ELEMENT
PHYS. REV., V.136, P.1280 (1964)
BR ..EXPERIMENT/ LIQUID
- 64-BA-01 BAYM, G.
DIRECT CALCULATION OF ELECTRONIC PROPERTIES OF METALS FROM NEUTRON SCATTERING DATA
PHYS. REV., V.135A, P.1691 (1964)
THEORY-OF-SOLIDS ..SCATTERING LAW
- 64-BI-01 BIRGENEAU, R.J./ CORDES, J./ DOLLING, G./ WOODS, A.D.B.
NORMAL MODES OF VIBRATIONS IN NICKEL
PHYS. REV., V.136A, P.1359 (1964)
NI ..296 DEGREE KELVIN/ EXPERIMENT/ DISPERSION RELATION / 3-AXIS SPECTROMETER
- 64-BO-01 BOUTIN, H./ SAFFORD, G.J./ DANNER, H.R.
LOW-FREQUENCY MOTIONS OF H₂O MOLECULES IN CRYSTALS
J. CHEM. PHYS., V.40, P.2670-P.2679 (1964)
BA.CL2/ CHABAZITE/ ANALCITE/ CU₂S.O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM/ WATER IN CRYSTAL
- 64-BO-02 BOUTIN, H./ PRASK, H.
STUDY OF WATER VAPOR ADSORBED ON GAMMA-ALUMINA AND SILICA BY SLOW NEUTRON INELASTIC SCATTERING
SURFACE SCI., V.2, P.261-P.266 (1964)
H₂O/ WATER-SILICA/ WATER-ALUMINA/ AL₂CL₃ ..EXPERIMENT/ MOLECULAR DYNAMICS ..H₂O VAPOR ADSORBED
- 64-BR-01 BROCKHOUSE, B.N./ WOODS, A.D.B./ DOLLING, G./ THORSON, I.M.
RESEARCH WITH INELASTIC NEUTRON SCATTERING AT THE NRU REACTOR
PROC. 3RD INTERN. CONF. PEACEFUL USES ATOMIC ENERGY, GENEVA, V.7, P.419-P.426 (1964)
REVIEW-ARTICLES ..EXPERIMENT/ SOLID/ LIQUID
- 64-BR-02 BROCKHOUSE, B.N./ HAUTECLER, S./ STILLER, H.
INELASTIC SCATTERING OF SLOW NEUTRONS
THE INTERACTION OF RADIATION WITH SOLIDS (ED. BY STRUMANE, R. ET AL), NORTH-HOLLAND PUBLISHING CO., P.580-P.642 (1964)
REVIEW-ARTICLES ..EXPERIMENT/ LATTICE DYNAMICS ..NEUTRON SPECTROSCOPY
- 64-BR-03 BROCKHOUSE, B.N.
PHONONS AND NEUTRON SCATTERING
PHONONS AND PHONON INTERACTIONS (ED. BY A.BAK), W.A.BENJAMIN INC., P.221 (1964)
REVIEW-ARTICLES ..EXPERIMENT/ LATTICE DYNAMICS ..NEUTRON SPECTROSCOPY
- 64-BR-04 BRUGGER, R.M.
A NEW METHOD OF MEASURING FREQUENCY DISTRIBUTIONS OF CRYSTALS
AERE-E-4562 (1964)
NI ..EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
- 64-BR-05 BRUGGER, R.M./ RAINEY, V.S./ MCMURRY, H.C.
SCATTERING OF SLOW NEUTRONS FROM METHANE GAS
PHYS. REV., V.136, P.106 (1964)
C.H₄ ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION
- 64-CH-01 CHEN, S.H./ BROCKHOUSE, B.N.
LATTICE VIBRATIONS OF TUNGSTEN
SOLID STATE COMMUN., V.2, P.73 (1964)
W ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 64-CO-01 COCHRAN, W./ PAWLEY, G.S.
THE THEORY OF DIFFUSE SCATTERING OF X-RAYS BY A MOLECULAR CRYSTAL
PROC. ROY. SOC., LONDON, SER. A, V.280, P.1-P.22 (1964)
HEXAMETHYLENETETRAMINE ..THEORY/ LATTICE DYNAMICS/ DISPERSION/ FREQUENCY DISTRIBUTION ..X-RAY SCATTERING
- 64-CO-02 COWLEY, R.A.
LATTICE DYNAMICS AND PHASE TRANSITIONS OF STRONTIUM TITANATE

- PHYS. REV., V.134, P.981 (1964)
SR,TI-03 ..DISPERSION RELATION/ EXPERIMENT/ LATTICE DYN AMICS
- 64-CZ-01 CZERLUNCZAKIEWICZ, B./ KOWALSKA, A.
DOUBLE DIFFERENTIAL CROSS SECTION FOR SLOW NEUTRONS SCATTERING ON GASEOUS AMMONIA MOLECULES
ACTA PHYS. POL., V.25, P.141 (1964)
N.H3 ..GASE/ MOLECULE/ EXPERIMENT/ SIGMA(E, E-PRIME)
- 64-DA-01 DAHLBERG, U./ GROSSHOEG, G./ LARSSON, K.E./ MOELLE R, E./ PUROHIT, S.N.//
INVESTIGATIONS INTO THE MODERATING PROPERTIES OF WATER PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY, UNITED NATIONS, GENOVA, V.2, P.336-P.344 (1964)
H2.O/ D2.O
- 64-DA-02 DANNER, H.R./ SAFFORD, G.J./ BOUNTIN, H./ BERGER, M.
STUDY OF LOW-FREQUENCY MOTIONS IN POLYETHYLENE AND THE PARAFFIN HYDROCARBONS BY NEUTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.40, P.1417 (1964)
POLYETHYLENE/ PARAFFINE ..FREQUENCY SPECTRUM/ EXPERIMENT/ SOLID/ MOLECULAR DYNAMICS
- 64-DA-03 DANNER, H.R./ BOUNTIN, H./ SAFFORD, G.J.
LOW-FREQUENCY MOLECULAR VIBRATIONS IN SOLID HEXANE BY NEUTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.41, P.3649-P.3650 (1964)
POLYETHYLENE ..EXPERIMENT/ FREQUENCY DISTRIBUTION ..TOF / 125, 178 AND 293DK
- 64-DE-01 DE-WAMES, R.E./ LEHMAN, G.W.
RE-EXAMINATION OF THE LATTICE DYNAMICS OF WHITE TIN USING A MODIFIED AXIALLY SYMMETRIC MODEL
PHYS. REV., V.135A, P.170 (1964)
SN ..THEORY/ SOLID/ LATTICE DYNAMICS
- 64-DO-01 DOLLING, G./ GILAT, G.
ON THE TEMPERATURE DEPENDENCE OF PHONONS IN BETA-BRASS SOLID STATE COMMUN., V.2, P.79 (1964)
CU-ZN ..EXPERIMENT/ DISPERSION RELATION
- 64-DO-02 DORNER, B./ STILLER, H.
FREQUENCY SPECTRUM IN SOLID METHANE AT 6.5DK
PHYS. STATUS SOLIDI, V.5, P.511-P.514 (1964)
METHANE ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ..6.5DK/ BE DETECTOR METHOD
- 64-EG-01 EGELSTAFF, P.A.
THE THERMAL MOTION OF SIMPLE LIQUIDS
- AERE-R-4641 (1964)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING LAW/ MEAN SQUARE DISPLACEMENT/ DIFFUSION PARAMETER/ LIQUID/ THEORY
- 64-EG-02 EGELSTAFF, P.A./ HAYWOOD, B.C./ WOOD, F.J./ BASTON, A.H.
MOLECULAR MOTIONS IN LIQUID AND SOLID ORTHO-HYDROGEN
PHYS. LETT., V.12, P.188-P.189 (1964)
H ..EXPERIMENT/ SOLID/ LIQUID ..12, 15, 18 AND 21DK
- 64-FU-01 FULINSKI, A.
ON THE STATISTICAL MECHANICAL EVALUATION OF THE SLOW NEUTRON SCATTERING FUNCTION
ACTA PHYS. POL., V.26, P.19 (1964)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY
- 64-FU-02 FULLWOOD, R.R./ CAERTNER, E.R./ SLOVACEK, R.E.
THE EFFECTS OF COHERENT SCATTERING ON THE THERMALIZATION OF NEUTRON IN BERYLLIUM
RPI-328-22 (1964)
BE ..NEUTRON SPECTRUM/ EXPERIMENT ..TIME AND BUCKLING DEPENDENT NEUTRON SPECTRUM
- 64-GL-01 GLAESER, W./ BECURTS, K.H.
INELASTIC NEUTRON SCATTERING BY SOME HOMOGENEOUS MODERATORS
NUCL. SCI. ENG., V.20, P.236-P.238 (1964)
BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ SOLID/ LIQUID ..2ND MOMENT OF ENERGY TRANSFER
- 64-HA-01 HAYWOOD, B.C.
A COMPILATION OF THE SCATTERING LAW FOR HEAVY WATER AT 22DC AND 150DC
AERE-R4582 (1964)
D2.O ..LIQUID/ EXPERIMENT/ SCATTERING LAW
- 64-HA-02 HAYWOOD, B.C./ SINCLAIR, R.N.
A COMPILATION OF THE SCATTERING LAW FOR GRAPHITE, BERYLLIUM AND BERYLLIUM OXIDE AT 22DC
AERE-R-4732 (1964)
GRAPHITE/ BE/ BE.O ..COMPILATION/ SCATTERING FUNCTION
- 64-HO-01 HONECK, H.C./ HOUSTON, D.H./ NALIBOFF, Y.D.
MUSE, A COMPUTER CODE FOR MULTIPLE SCATTERING CORRECTIONS
GA-5968 (1964)
COMPUTER-CODES ..MULTIPLE SCATTERING/ THEORY
- 64-JA-01 JANIK, J.A./ JANIK, J.M./ MELLOR, J./ PALEVSKY, H.
STUDY OF MOLECULAR ROTATION IN SOLIDS AND LIQUIDS BY THERMAL NEUTRON SCATTERING
E INELASTIC SCATTERING OF COLD NEUTRONS
J. PHYS. CHEM, SOLIDS, V.25, P.1091-P.1098 (1964)

- C. H₄/ C. H₃. I/ DIMETHYLACETYLENE/ N. H₄. CL. O₄/ N. H₄. P. F₆/ H₃. O. CL. O₄/ DIMETHOXYAZOXYBENZENE ..SOLID/ LIQUID/ EXPERIMENT/ BE FILTER/ TOF
- 64-KE-01 KELLY, B.T.
THE ELASTIC CONSTANTS OF POLYCRYSTALLINE CARBONS AND GRAPHITES
PHIL. MAG., V.9, P.721-P.737 (1964)
GRAPHITE ..THEORY/ SOLID/ LATTICE DYNAMICS
- 64-KO-01 KOMATSU, K.
INTERPRETATION OF THE SPECIFIC HEAT OF VARIOUS GRAPHITES AT VERY LOW TEMPERATURE
J. PHYS. CHEM. SOLIDS, V.25, P.707-P.712 (1964)
GRAPHITE ..THEORY/ LATTICE DYNAMICS ..SPECIFIC HEAT
- 64-KO-02 KOPPEL, J.U./ YOUNG, J.A.
NEUTRON SCATTERING BY WATER TAKING INTO ACCOUNT THE ANISOTROPY OF THE MOLECULAR VIBRATIONS
NUCL. SCI. ENG., V.19, P.412-P.417 (1964)
H₂O ..THEORY/ MOLECULAR DYNAMICS ..SCATTERING KERNEL/ ANISOTROPIC MODEL
- 64-KR-01 KROO, N./ BORGONOV, G./ SKOELD, K./ LARSSON, K.E.
INELASTIC SCATTERING OF COLD NEUTRONS BY CONDENSED ARGON
PHYS. REV. LETT., V.12, P.721 (1964)
AR ..EXPERIMENT/ LIQUID/ SOLID
- 64-LA-01 LARSSON, K.E./ DAHLBORG, U.
PROTON MOTIONS IN SOME HYDROGENEOUS LIQUIDS STUDIED BY COLD NEUTRON SCATTERING
PHYSICA, V.30, P.1561-P.1599 (1964)
H₂O/ D₂O/ PENTANE/ GLYCELINE ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION
- 64-MA-01 MARADUDIN, A.A./ AMBEGAOKAR, V.
CALCULATION OF THE SCATTERING FUNCTION S(KAPPA, OMEGA) FOR THE INELASTIC SCATTERING OF NEUTRONS BY ANHARMONIC CRYSTALS
PHYS. REV., V.135, P.1071 (1964)
NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ SCATTERING FUNCTION/ LATTICE DYNAMICS/ SCATTERING LAW/ THEORY/ SOLID ..INELASTIC SCATTERING
- 64-MA-02 MARTIN, D.G.
AN INVESTIGATION INTO THE NUMBER OF NEIGHBOURING ATOMS TO BE INCLUDED IN CALCULATIONS OF THE SLOW NEUTRON SCATTERING CROSS SECTION OF DEFECTS IN SOLIDS
AERE-R-4527 (1964)
NEUTRON-SCATTERING-IN-SOLIDS ..SOLID/ THEORY
- 64-MA-03 MATESCU, N./ TEUTSH, H./ NAHORNIK, V./ DIACONESCU, P./ TIMIS, P.
THE TEMPERATURE DEPENDENCE OF NEUTRON INELASTIC SCATTERING IN HEAVY WATER
PROC. 3RD INTERN. CONF. PEACEFUL USES ATOMIC ENERGY, GENEVA, V.2, P.403-P.409 (1964)
D₂O ..LIQUID/ SOLID/ EXPERIMENT/ FREQUENCY DISTRIBUTION/ SIGMA (E-E-PRIME, THETA)/ DIFFUSION PARAMETER ..-100 DC/ 24DC/ 73DC
- 64-MC-01 McMURRY, H.L./ GANNON, L.J.
A MACHINE PROGRAM FOR CALCULATING SLOW NEUTRON SCATTERING CROSS SECTIONS WITH APPLICATION TO WATER
IDO-16984 (1964)
COMPUTER-CODES/ H₂O ..THEORY/ SCATTERING LAW/ SIGMA (E-E-PRIME, THETA)/ MOLECULAR DYNAMICS
- 64-MO-01 MOSTOVOY, V.I./ DIKAREV, V.S./ EREMEEV, I.P./ ISHMAEV, S.P./ SADIKOV, I.P./
EXPERIMENTAL STUDIES OF NEUTRON THERMALIZATION
PROC. 3RD INTERN. CONF. PEACEFUL USES ATOMIC ENERGY, GENEVA, V.2, P.280 (1964)
H₂O/ BIPHENYL ..FREQUENCY SPECTRUM/ EXPERIMENT
- 64-NA-01 NALIBOFF, Y.D./ KOPPEL, J.U.
HEXSCAT - COHERENT ELASTIC SCATTERING OF NEUTRONS BY HEXAGONAL LATTICES
GA-6026, P.1-P.20 (1964)
COMPUTER-CODES ..THEORY/ COHERENT/ ..POLYCRYSTAL/ FORTRAN LIST
- 64-NE-01 NELKIN, M./ GHATAK, A.
SIMPLE BINARY COLLISION MODEL FOR VAN-HOVE-S G(R,T)
PHYS. REV., V.135A, P.4-P.9 (1964)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING FUNCTION ..DILUTE FLUID
- 64-NI-01 NIJBOER, B.R.A./ KOKKEDEE, J.J.J.
THE SCATTERING OF SLOW NEUTRONS BY CRYSTALS AND LIQUIDS
AERE-TRANS-1004 (1964)
SCATTERING-THEORIES ..THEORY/ LIQUID/ SOLID/ SCATTERING THEORY
- 64-NI-02 NIJBOER, B.R.A./ KOKKEDEE, J.J.J.
THE SCATTERING OF SLOW NEUTRONS BY CRYSTALS AND LIQUIDS
AERE-TRANS-1004 (1964)
REVIEW-ARTICLES ..SCATTERING THEORY/ SOLID/ LIQUID ..(THIS IS TRANSLATED FROM NED. TIJDSCHR. NATUUR, V.29 P.61 -P.79 AND P.93-P.109, 1963)
- 64-NO-01 NOSSAL, R.

- TIME-RELAXED PROBABILITY DENSITIES AND CORRELATION FUNCTIONS FOR MODERATELY DENSE FLUIDS
PHYS. REV., V.135A, P.1579-P.1589 (1964)
THEORY-OF-FLUIDS ..THEORY/ LIQUID
- 64-OT-01 OTNES, K./ MELLOR, J./ PALEYSKY, H.
SPECTRA OF SCATTERED COLD NEUTRON FROM GASEOUS, LIQUID AND SOLID METHANE
BULL. AMER. PHYS. SOC., V.9, P.421 (1964)
C.H4 ..EXPERIMENT/ LIQUID
- 64-PA-01 PAGE, D.I.
SCATTERING LAW SCALING VALUES FOR H₂O AT 550DK
CRRP-1196 (1964)
H₂O ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..550DK/ 1200 PSI
- 64-PE-01 PERETTI, P./ JOUANIN, C.
SCATTERING OF SLOW NEUTRONS BY A CRYSTAL WITH POINT DEFECTS
EUR-1020 (1964)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY ..POINT DEFECT
- 64-PE-02 PERETTI, J./ JOUANIN, C.
SCATTERING OF SLOW NEUTRONS BY A CRYSTAL WITH POINT DEFECTS
NUOVO CIMENTO, V.34, P.293-P.302 (1964)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING FORMULA/ CRYSTAL/ POINT DEFECT
- 64-PR-01 PRYOR, A.W.
THE ELECTRICAL CONDUCTIVITY OF BERYLLIUM OXIDE
J. NUCL. MATER., V.14, P.258 (1964)
BE₂O ..THEORY/ SOLID ..ELECTRICAL CONDUCTIVITY
- 64-PR-02 PRYOR, A.W./ SABINE, T.M.
THERMAL VIBRATIONS IN BE₂O
J. NUCL. MATER., V.14, P.275 (1964)
BE₂O ..EXPERIMENT ..NEUTRON DIFFRACTION MEASUREMENTS/ DEBYE PARAMETER
- 64-RA-01 RAHMAN, A.
CORRELATIONS IN MOTION OF ATOMS IN LIQUID ARGON
PHYS. REV., V.136A, P.405 (1964)
AR ..THEORY/ MOLECULAR DYNAMICS ..LIQUID DYNAMICS/ DIGITAL COMPUTER SIMULATION
- 64-RA-02 RANDOLPH, P.D.
SLOW NEUTRON INELASTIC SCATTERING FROM SODIUM
PHYS. REV., V.134A, P.1238 (1964)
NA ..SCATTERING LAW / STRUCTURE FACTOR/ LIQUIDS
- 64-RU-01 RUSH, J.J./ TAYLOR, T.I.
ROTATIONAL MOTIONS IN HEXAMETHYLBENZENE AND AMMONIUM PERCHLORATE BY CROSS SECTION MEASUREMENTS WITH SLOW NEUTRONS
J. PHYS. CHEM. SOLIDS, V.68, P.2534 (1964)
HEXAMETHYLBENZENE/ AMMONIUM PERCHLORATE ..EXPERIMENT/ ROTATIONAL MOTION
- 64-SA-01 SAFFORD, G.J./ DANNER, H.R./ BOUTIN, H./ BERGER, M.
INVESTIGATION OF THE LOW-FREQUENCY MOTIONS IN ISOTACTIC AND ATACTIC POLYPROPYLENE
J. CHEM. PHYS., V.40, P.1426-P.1432 (1964)
POLYPROPYLENE ..EXPERIMENT/ TOF SPECTRA/ FREQUENCY SPECTRA/ LATTICE DYNAMICS
- 64-SC-01 SCHMUNK, R.E.
SLOW NEUTRON INELASTIC SCATTERING FROM BERYLLIUM POWDER
PHYS. REV., V.136A, P.1303 (1964)
BE ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION ..COHERENT SCATTERING LAW/ ROOM TEMP.
- 64-SI-01 SINGWI, K.S.
COHERENT SCATTERING OF SLOW NEUTRONS BY A LIQUID
PHYS. REV. A, V.136, P.969-P.980 (1964)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID DYNAMICS ..COHERENT SCATTERING/ WIDTH FUNCTION/ QUASI-CRYSTALLINE MODEL
- 64-SJ-01 SJOELANDER, A.
LECTURES ON PHONONS AND EXTERNAL RADIATION
PHONONS AND PHONON INTERACTIONS (ED. BY A.BAK), W. A. BENJAMIN INC., P.76-P.101 (1964)
REVIEW-ARTICLES ..SCATTERING THEORY
- 64-SP-01 SPRINGER, T./ HOFMYER, C./ KORNBICHLER, S./ LEMMEL, H.D.
ON THE DETERMINATION OF THE DIFFUSION CONSTANTS OF H₂O, POLYPHENYLS, ZR-H_{1,92} AND D₂O BY NEUTRON SINGLE SCATTERING EXPERIMENTS
PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY-UNITED NATIONS, GENEVA., V.2, P.351 (1964)
H₂O/ D₂O/ PHENYL/ ZR-H ..EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER ..AVE-MU
- 64-ST-01 STEHN, J.R./ GOLDBERG, M.D./ MAGURNO, B.A./ WIENER, CHASMAN, R.
NEUTRON CROSS SECTIONS
BNL-325 (2ND ED., SUPPL. 2), V.1 (1964)
H/ D/ H₂O/ D₂O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ M

- G/ AL/ SI/ AR/ K/ COMPILATIONS ..SIGMA(E)/ EXPERIMENT
- 64-SU-01 SUMMERFIELD, G.C.
ON THE FERMI APPROXIMATION IN THERMAL NEUTRON SCATTERING
6
ANN. PHYS., N.Y., V.26, P.72-P.80 (1964)
SCATTERING-THEORIES ..THEORIES/ FERMI-APPROXIMATION
- 64-TE-01 TEUTSCH, H./ MATEESCU, N./ NAHORNIK, V./ DIACONES
CU, A./ TIMIS, P.
COLD NEUTRON SCATTERING BY LIGHT AND HEAVY WATER
REV. ROUM. PHYS., V.9, P.737 (1964)
H2.O/ D2.O ..LIQUID/ EXPERIMENT/ NEUTRON SCATTERING
- 64-VA-01 VAN-DINGENEN, W./ NEVEDE-MEVERGNIES, M.
TOTAL CROSS SECTION FOR SCATTERING OF COLD NEUTRONS BY
PROTONS IN SOME COOLED HYDROGENOUS COMPOUNDS
PHYSICA, V.30, P.237-P.243 (1964)
ACETYLENE/ AMMONIA/ METHANE ..TOTAL CROSS SECTION/ EXPE
RIMENT/ SOLID ..LONG WAVE LENGTH/ 300DK-4DK
- 64-VE-01 VENKATARAMAN, G./ DENIZ, K.U./ IYENGAR, P.K./ VIJA
YARAGHAVAN, P.R./ ROY, A.P.
ANHARMONICITY OF THE TORSIONAL OSCILLATIONS OF THE AMMO
NIUM ION IN N.H4.CL
SOLID STATE COMMUN., V.2, P.17-P.19 (1964)
N.H4.CL ..EXPERIMENT ..300, 228 AND 135DK
- 64-VI-01 VINTAIKIN, E.Z./ GORBACHEV, U.V./ GRUZIN, P.L.
INVESTIGATION OF THE THERMAL VIBRATIONS OF THE ATOMS IN
COPPER BY NEUTRON SPECTROMETRY
FIZ, TVERD. TELA (SOV. PHYS.-SOLID STATE), V.7 (V,
7), P.367-P.371 (P.296-P.299) (1964 (1965))
CU ..DISPERSION RELATION/ SOLID/ EXPERIMENT
- 64-WH-01 WHITTEMORE, W.L.
INELASTIC NEUTRON SCATTERING IN LIQUID METHANE AND LIQU
ID PARAHYDROGEN
NUCL. SCI. ENG., V.18, P.182 (1964)
C,H4/ H ..EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS ..NEUT
RON SPECTRA/ TOTAL CROSS SECTION
- 64-WI-01 WIKNER, N.F./ JOANOU, G.D./ PARKS, D.E.
NEUTRON THERMALIZATION IN GRAPHITE
NUCL. SCI. ENG., V.19, P.108-P.129 (1964)
GRAPHITE ..EXPERIMENT/ LATTICE VIBRATION/ FREQUENCY DIS
TRIBUTION/ SCATTERING FUNCTION/ NEUTRON SPECTRUM
- 64-WI-02 WILSON, J.V.
LATTICE VIBRATION FREQUENCY SPECTRUM OF GRAPHITE
ORNL-P-585 (1964)
GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBU
- TION
- 64-WO-01 WOODS, A.D.B./ CHEN, S.H.
LATTICE DYNAMICS OF MOLYBDENUM
SOLID STATE COMMUN., V.2, P.233 (1964)
MO ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 64-WO-02 WOODS, A.D.B.
LATTICE DYNAMICS OF TANTALUM
PHYS. REV., V.136A, P.781 (1964)
TA ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 64-YA-01 YARNELL, J.L./ WARREN, J.L./ WENZEL, R.G.
LATTICE VIBRATIONS IN DIAMOND
PHYS. REV. LETT., V.13, P.13 (1964)
DIAMOND ..EXPERIMENT/ DISPERSION RELATION
- 64-YA-02 YARNELL, J.L./ WARREN, J.L./ WENZEL, R.G./ KOENIG,
S.H.
PHONON DISPERSION CURVES IN BISMUTH
IBM J. RES. DEVELOP., V.8, P.234 (1964)
BI ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RE
LATION
- 64-YI-01 YIP, S./ NELKIN, M.
APPLICATION OF KINETIC MODEL TO TIME-DEPENDENT DENSITY
CORRELATIONS IN FLUIDS
PHYS. REV., V.135A, P.1241-P.1247 (1964)
NEUTRON-SCATTERING-IN-FLUIDS ..CORRELATION FUNCTION/ LI
QUID
- 64-YO-01 YOUNG, J.A./ KOPPEL, J.U.
SLOW NEUTRON SCATTERING BY MOLECULAR HYDROGEN AND DEUTE
RIUM
PHYS. REV., V.135A, P.603-P.611 (1964)
H2/ D2 ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING CROSS S
ECTION ..20,4DK
- 64-YO-02 YOUNG, J.A./ KOPPEL, J.U.
LATTICE VIBRATIONAL SPECTRA OF BERYLLIUM, MAGNESIUM AND
ZINC
PHYS. REV., V.134A, P.1476-P.1479 (1964)
BE/ MG/ ZN ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DY
NAMICS ..ROOT SAMPLING METHOD
- 64-YO-03 YOUNG, J.C./ HUFFMAN, D.
EXPERIMENTAL AND THEORETICAL NEUTRON SPECTRA
GA-5319 (1964)
H2.O ..EXPERIMENT/ LIQUID/ NEUTRON SPECTRUM/ THEORY
- 64-YO-04 YOUNG, J.A./ KOPPEL, J.U.
SLOW NEUTRON SCATTERING BY MOLECULAR HYDROGEN AND DEUTE

- RIUM
 H2/D2 THEORY/ MOLECULAR DYNAMICS/ LIQUID SCATTERING
 G CROSS SECTION
- PHYS. REV., V.135A, P.603-P.611 (1964)
- 64-ZW-01 ZWANZIG, R.
 INCOHERENT INELASTIC NEUTRON SCATTERING AND SELF-DIFFUSION
 ION
 PHYS. REV. A, V.133, P.50-P.51 (1964)
- NEUTRON-SCATTERING-IN-FLUIDS INCOHERENT APPROXIMATION
 / SCATTERING THEORY/ SCATTERING LAW GENERALIZED SELF-DIFFUSION
 COEFFICIENT/ FLUCTUATION DISSIPATION THEOREM
- 65-AK-01 AKCASU, A.Z./ OSBORN, P.K.
 A STUDY OF INELASTIC NEUTRON SCATTERING BY ANHARMONIC CRYSTALS
 WITH THE DAMPING THEORY
 INELASTIC SCATTERING OF NEUTRON. IAEA, V.1, P.261 (1965)
- NEUTRON-SCATTERING-IN-SOLIDS THEORY/ ANHARMONICITY
- 65-AK-02 AKCASU, A.Z./ OSBORN, P.K.
 DAMPING THEORY AND ITS APPLICATION TO NEUTRON SCATTERING
 G BY ANHARMONIC CRYSTALS
 NUOVO CIM., V.38, P.175-P.196 (1965)
- THEORY-OF-SOLIDS/ SCATTERING-THEORIES DAMPING THEORY/ SCATTERING
 CROSS-SECTION/ ANHARMONIC CRYSTAL
- 65-AR-01 ARMSTRONG, S.B.
 THE ENERGY-DEPENDENT TOTAL NEUTRON CROSS SECTION OF POLYETHYLENE
 NUCL. SCI. ENG., V.23, P.192 (1965)
- POLYETHYLENE EXPERIMENT/ SOLID
- 65-BA-01 BAJOREK, A./ MACHEKHINA, T.A./ PARLINSKI, K.
 INVESTIGATION OF THE DYNAMICS OF N₂ AND H₂O MOLECULAR
 GROUPS IN CRYSTALS
 INELASTIC SCATTERING OF SLOW NEUTRONS. IAEA, V.2, P.355-P.382 (1965)
- N₂, CL₂, N₂, BR₂, N₂, I₂, N₂, F₂, N₂, N₂, O₂, N₂, C₂, N₂, S₂
 / (N₂)₂, S₂, O₂ / (N₂)₂, S₂, O₂ / (N₂)₂, S₂, O₂ ..EXPERIMENT/
 NEUTRON SPECTRUM/ SOLID
- 65-BA-02 BALLY, D./ TODIREANU, S./ TARINA, V.
 INELASTIC SCATTERING OF NEUTRONS IN ETHYLENE
 INELASTIC SCATTERING OF NEUTRONS. IAEA, V.2, P.421-P.429 (1965)
- ETHYLENE ..EXPERIMENT/ SCATTERING LAW ..GAS TARGET/ TRI-AXIS
 SPECTROMETER
- 65-BA-03 BATA, L./ KOSZO, E./ KROG, N./ PAL, L.
 INELASTIC SCATTERING OF COLD NEUTRONS IN ETHER NEAR THE
 CRITICAL POINT
- PHYS. LETT., V.19, P.15 (1965)
- ETHYL ETHER ..INELASTIC SCATTERING SPECTRA
- 65-BE-01 BEYSTER, J.R./ KOPPEL, J.U.
 INTEGRAL NEUTRON THERMALIZATION
 GA-6096 (1965)
- D₂O/ H₂O/ POLYETHYLENE/ BE ..THEORY/ EXPERIMENT/ LIQUID/
 ID/ SOLID/ CROSS SECTION EVALUATION
- 65-BE-02 BEYSTER, J.R./ YOUNG, J.C./ NEILL, J.M./ MOWRY, W.
 DIFFERENTIAL NEUTRON SCATTERING FROM HETEROGENEOUS MODERATORS
 PULSED NEUTRON RESEARCH. IAEA, V.1, P.407-P.421 (1965)
- H₂O/ D₂O/ ZR-H ..EXPERIMENT/ DIFFUSION PARAMETER ..AV
 E-MU
- 65-BL-01 BLECH, I.A./ AVERBACH, B.L.
 MULTIPLE SCATTERING OF NEUTRONS IN VANADIUM AND COPPER
 PHYS. REV., V.137A, P.113 (1965)
- V/ CU ..THEORY/ MULTIPLE SCATTERING
- 65-BO-01 BORGONOV, G./ CAGLIOTTI, G./ ANTONINI, M.
 RECENT RESULTS ON THE CRYSTAL PHYSICS OF WHITE TIN
 INELASTIC SCATTERING OF NEUTRONS. IAEA, V.1, P.117 (1965)
- SN ..EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RELATION
 ION ..ROOM TEMPERATURE/ BODY CENTERED TETRAGONAL
- 65-BO-02 BORST, L.B.
 THE DISPERSION RELATION IN LIQUID HELIUM
 BNL-940 (C-45), P.173 (1965)
- HE ..THEORY
- 65-BO-03 BOUTIN, H./ PRASK, H./ TREVINO, S.F./ DANNER, H.
 STUDY OF THE LOW-FREQUENCY MOLECULAR MOTIONS IN POLYETHYLENE
 AND THE N-PARAFFINS BY SLOW NEUTRON INELASTIC SCATTERING
 INELASTIC SCATTERING OF NEUTRONS. IAEA, V.2, P.407 (1965)
- POLYETHYLENE/ PARAFFINE ..FREQUENCY SPECTRUM/ EXPERIMENT/
 SOLID
- 65-BO-04 BOUTIN, H./ SAFFORD, G.J.
 STUDIES OF THE SOLID AND LIQUID PHASES OF H₂F, H₂CL AND
 H₂BR BY SLOW NEUTRON INELASTIC SCATTERING
 INELASTIC SCATTERING OF NEUTRONS. IAEA, V.2, P.393-P.406 (1965)
- H₂F/ H₂CL/ H₂BR ..EXPERIMENT/ LATTICE VIBRATION/ TOF SPECTRUM

- 65-BO-05 BOUTIN, H./ PRASK, H./ SAFFORD, G.J.
LOW-FREQUENCY MOTION OF H₂O MOLECULES IN BERYL FROM NE
UTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.42, P.1469 (1965)
H₂O ..TOF
- 65-BO-06 BOUTIN, H./ PRASK, H./ SAFFORD, G.J.
LOW-FREQUENCY MOTIONS OF H₂O MOLECULES IN BERYL FROM N
EUTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.42, P.1469-P.1470 (1965)
WATER-BERYL ..EXPERIMENT/ TOF SPECTRA/ ADSORBED WATER
- 65-BR-01 BREDOV, M.M./ KOTOV, B.A./ OKUNEVA, N.M./ SHAKH-BU
DAGOV, A.L.
INVESTIGATION OF THE PHONON SPECTRUM OF ALUMINUM
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.7 (V.
7), P.1138-P.1145 (P.1413-P.1422) (1965 (1965))
AL ..PHONON SPECTRUM/ EXPERIMENT
- 65-BR-02 BRODSKY, M.H./ BURSTEIN, E.
APPLICATION OF THE SHELL MODEL TO THE LATTICE VIBRATION
OF LI-H
LATTICE DYNAMICS, PERGAMON PRESS, P.175 (1965)
LI,H ..THEORY/ SOLID/ LATTICE DYNAMICS
- 65-BR-03 BROVMAN, E.G./ KAGAN, Y.
THE VIBRATION SPECTRUM OF THE WHITE TIN LATTICE
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.131
(1965)
SN ..SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
- 65-BR-04 BRUGGER, R.M./ STRONG, K.A./ PUGMIRE, R.J./ GRANT,
D.M.
OBSERVATION OF THE LEAST-ENERGETIC E(SUB U) VIBRATION O
F CYCLOHEXANE
J. CHEM. PHYS., V.50, P.1030 (1965)
CYCLOHEXANE ..EXPERIMENT
- 65-CA-01 CASPERS, M.H./ MURPHY, R.A./ BUCHANAN, R.A.
LATTICE VIBRATIONS OF LA.CL₃
LATTICE DYNAMICS (ED. BY WALLIS, R.F.) PERGAMON PRE
SS, P.109 (1965)
LA.CL₃ ..LATTICE DYNAMICS
- 65-CH-01 CHAMPIER, G./ TOUSSAINT, G.
DYNAMICS OF HEXAGONAL CLOSE PACKED LATTICE. SPECTRA OF
VIBRATIONAL FREQUENCIES (IN FRENCH)
LATTICE DYNAMICS (ED. BY WALLIS, R.F.) PERGAMON PR
ESS, P.119 (1965)
THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/
LATTICE DYNAMICS
- 65-CH-02 CHEN, S.H./ EDER, O.J./ EGELSTAFF, P.A./ HAYWOOD,
B.C.G./ WEBB, F.J.
CO-OPERATIVE MODES OF MOTION IN SIMPLE LIQUIDS
PHYS. REV. LETT., V.19, P.269-P.271 (1965)
NEON/ ARGON/ DEUTERIUM/ CARBON TETRAFLUORIDE ..EXPERIME
NT/ LIQUID/ SIGMA(THETA,E)
- 65-CH-03 CHERNOPLEKOV, N.A./ ZEMLYANOV, M.G.
INVESTIGATION OF THE QUASILocal LEVEL IN THE VIBRATION
SPECTRUM OF A LATTICE WITH HEAVY IMPURITY ATOMS
ZH. EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.49 (V.22
) , P.449-P.451 (P.315-P.316) (1965 (1966))
PB-MG ..EXPERIMENT/ IN-BAND MODE/ FREQUENCY SPECTRUM
- 65-CH-04 CHERNOPLEKOV, N.A./ ZEMLYANOV, M.G.
INVESTIGATION OF THE QUASILocal LEVEL IN THE VIBRATION
SPECTRUM OF A LATTICE WITH HEAVY IMPURITY ATOMS
ZH. EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.49 (V.22
) , P.449-P.451 (P.315-P.316) (1965 (1966))
MG-PB ..EXPERIMENT/ LOCAL MODE/ PHONON SPECTRA
- 65-CO-01 COCHRAN, W.
INTERPRETATION OF PHONON DISPERSION CURVES
LATTICE DYNAMICS (ED. BY WALLIS, R.F.) PERGAMON PRE
SS, P.75 (1965)
THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID
- 65-CO-02 COCHRAN, W.
THEORETICAL ASPECTS OF PHONON DISPERSION CURVES FOR MET
ALS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.3 (1965)
NEUTRON-SCATTERING-IN-SOLIDS ..DISPERSION RELATION/ THE
ORY/ SOLID/ LATTICE DYNAMICS ..METAL
- 65-CO-03 COCKING, S.J./ EGELSTAFF, P.A.
FREQUENCY-WAVE NUMBER RELATIONSHIP FOR COOPERATIVE MODE
S OF MOTION IN LIQUID LEAD AND TIN
PHYS. LETT., V.16, P.130 (1965)
PB/ SN ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
- 65-CO-04 COWLEY, E.R./ COWLEY, R.A.
ANHARMONIC INTERACTIONS IN ALKALI HALIDES. I
PROC. ROY. SOC., LONDON, SER. A, V.287, P.1409 (19
65)
THEORY-OF-SOLIDS ..ANHARMONICITY/ THEORY ..ALKALI HALID
E
- 65-CO-05 COWLEY, R.A.
ANHARMONIC EFFECTS AND THE SCATTERING OF NEUTRON FROM A
CRYSTAL
INELASTIC SCATTERING OF NEUTRON, IAEA, V.1, P.297

- (1965)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ LATTICE D
YNAMICS/ SCATTERING THEORY
- 65-CZ-01 CZACHOR, A.
LATTICE DYNAMICS OF THE HEXAGONAL CLOSE-PACKED STRUCTUR
E
E INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.181
(1965)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ DISPERSION RELATIO
N/ THEORY/ SOLID ..HEXAGONAL CLOSED PACKED CRYSTAL
- 65-DA-01 DASANNACHARYA, B.A./ RAO, K.R.
NEUTRON SCATTERING FROM LIQUID ARGON
PHYS. REV., V.137A, P.417 (1965)
AR ..EXPERIMENT/ LIQUID/ SCATTERING LAW
- 65-DA-02 DASANNACHARYA, B.A./ VENKATARAMAN, G./ USHA-DENIZ,
K.
COLD NEUTRON SCATTERING BY METHANE
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.157
(1965)
C.H4 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ LIQUID ..E=
4.87 MILLI-V/ 97.5DK
- 65-DE-01 DE-GENNES, P.G.
QUASI-ELASTIC SCATTERING OF NEUTRONS BY DILUTE POLYMER
SOLUTIONS. 1, FREE-DRAINING LIMIT
PHYSICS, V.3, P.37-P.45 (1965)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ QUASI-ELASTIC/ D
ILUTE POLYMER SOLUTIONS
- 65-DE-02 DE-GRAAF, L.A.
INELASTIC NEUTRON SCATTERING BY SOLID AND LIQUID CYCLOH
EXANE
BNL-940(C-45), P.138 (1965)
CYCLOHEXANE ..INELASTIC SCATTERING SPECTRA/ LIQUID AND
SOLID
- 65-DE-03 DE-WAMES, R.E./ WOLFRAM, T./ LEHMAN, G.W.
LATTICE DYNAMICS, HEAT CAPACITIES, AND DEBYE-WALLER FOR
BE AND ZN USING A MODIFIED AXIALLY SYMMETRIC MODEL
PHYS. REV., V.138A, P.717 (1965)
BE/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION BELATION
- 65-DI-01 DICK, B.G.
SHELL AND EXCHANGE CHARGE MODELS OF INTERATOMIC INTERAC
TIONS IN SOLIDS
LATTICE DYNAMICS (ED. BY WALLIS, R.F.) PERGAMON PR
ESS, P.159 (1965)
THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/
LATTICE DYNAMICS
- 65-DO-01 DOLLING, G./ COWLEY, R.A./ WOODS, A.D.B.
THE CRYSTAL DYNAMICS OF URANIUM DIOXIDE
CAN, J. PHYS., V.43, P.1397-P.1413 (1965)
U.02 ..EXPERIMENT/ THEORY/ DISPERSION RELATION ..296DK/
7-PARAMETER RIGID ION MODEL/ TRIPLE AXIS SPECTROMETER
- 65-DO-02 DOLLING, G./ GILAT, G.
THERMAL VIBRATIONS OF BETA-BRASS AND THE ORDER-DISORDER
TRANSITION
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.343
(1965)
CU-ZN ..EXPERIMENT/ DISPERSION RELATION ..296DK/ PHASE
TRANSITION
- 65-DO-03 DOLLING, G./ WAUGH, J.L.T.
NORMAL VIBRATIONS IN GALLIUM ARSENIDE
LATTICE DYNAMICS, PERGAMON PRESS, P.19 (1965)
GA,AS ..EXPERIMENT/ DISPERSION RELATION
- 65-DO-04 DOLLING, G.
INELASTIC NEUTRON SCATTERING FROM DOPED GERMANIUM AND S
ILICON
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.249
(1965)
GE/ SI ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSIO
N RELATION
- 65-DO-05 DONALDSON, R.E./ PASSELL, L./ BARTOLINI, W./ GROVE
S, D.
DETERMINATION OF THE COHERENT NEUTRON SCATTERING AMPLIT
UDES OF BORON, NITROGEN, AND OXYGEN BY MIRROR REFLECTIO
N
PHYS. REV., V.138B, P.1116 (1965)
B/ N/ O ..MIRROR REFLECTION/ SCATTERING AMPLITUDE
- 65-DO-06 DORNER, B./ STILLER, H.
LATTICE DYNAMICS OF SOLID METHANE
INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ
UIDS, IAEA, V.2, P.291 (1965)
C.H4 ..SIGMA(E-E-PRIME,THETA)/ EXPERIMENT/ SOLID/ MOLEC
ULAR DYNAMICS
- 65-DO-07 DORNER, B./ PLESSER, T./ STILLER, H.
HIGH FREQUENCY WAVES IN LIQUID LEAD
PHYSICA, V.31, P.1537-P.1539 (1965)
PB ..EXPERIMENT
- 65-EG-01 EGELSTAFF, P.A.
THERMAL NEUTRON SCATTERING
ACADEMIC PRESS, LONDON AND NEW YORK (1965)
REVIEW-ARTICLES ..THEORY/ EXPERIMENT ..BOOK

- 65-EG-02 EDELSTAFF, P.A.
THE THERMAL MOTION OF SIMPLE LIQUIDS
BRIT. J. APPL. PHYS., V.16, P.1219 (1965)
REVIEW-ARTICLES ..LIQUID
- 65-EG-03 EDELSTAFF, P.A./ SCHOFIELD, P.
STRUCTURE AND THERMAL MOTION OF SIMPLE LIQUIDS, II
CONTEMP. PHYS., V.6, P.453 (1965)
REVIEW-ARTICLES ..LIQUID/ THEORY/ FREQUENCY SPECTRUM/ CORRELATION FUNCTION/ SCATTERING LAW
- 65-EG-04 EDELSTAFF, P.A./ SCHOFIELD, P.
STRUCTURE AND THERMAL MOTION OF SIMPLE LIQUIDS - 2
CONTEMP. PHYS., V.6, P.453-P.464 (1965)
REVIEW-ARTICLES ..REVIEW/ PHYSICAL PROPERTY/ TIME-DEPENDENT DISTRIBUTION/ NEUTRON EXPERIMENT
- 65-EL-01 ELLIOTT, R.J./ MARADUDIN, A.A.
THEORY OF NEUTRON SCATTERING BY LATTICE VIBRATIONS IN IMPERFECT CRYSTALS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.231 (1965)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ DISPERSION RELATION/ SOLID/ LATTICE DYNAMICS ..IMPERFECT CRYSTAL/ NEUTRON SCATTERING
- 65-FU-01 FULINSKI, A.
STATISTICAL-MECHANICAL THEORY OF INCOHERENT VAN-HOVE-S
SCATTERING FUNCTION FOR THERMODYNAMIC SYSTEMS
ACTA PHYS. POL., V.27, P.245-P.258 (1965)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY ..INCOHERENT SCATTERING FUNCTION
- 65-GA-01 GANNON, L.G./ MCMURRY, H.L.
A MACHINE PROGRAM FOR CALCULATING SLOW NEUTRON SCATTERING CROSS SECTION WITH EXACT AVERAGING OVER MOLECULAR ORIENTATION
ID0-17087 (1965)
C.H4/ C2.H6/ COMPUTER-CODES ..THEORY/ MOLECULAR DYNAMICS / SCATTERING FUNCTION
- 65-GI-01 GIBBS, A.G./ FERZIGER, J.H.
MODELS FOR THE MOTION OF MOLECULE IN A LIQUID AND THEIR APPLICATION TO SLOW-NEUTRON SCATTERING
PHYS. REV., V.138A, P.701 (1965)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ MOLECULAR DYNAMICS ..KINETIC MODEL/ CORRELATION FUNCTION
- 65-GI-02 GILAT, G./ DOLLING, G.
NORMAL VIBRATIONS OF BETA-BRASS
PHYS. REV., V.138A, P.1053 (1965)
- CU-ZN ..EXPERIMENT/ DISPERSION RELATION/ LATTICE VIBRATION ..296DK/ ALLOYS
- 65-GI-03 GILAT, G.
PHONON DENSITY STATES IN LEAD
SOLID STATE COMMUN., V.3, P.101 (1965)
PB ..PHONON FREQUENCY DISTRIBUTION
- 65-GI-01 GLAESER, W./ CARVALLO, F./ EHRET, G.
PHONON FREQUENCY DISTRIBUTION OF VANADIUM
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.99 (1965)
V ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION/ TOF/ ROTATING CRYSTAL SPECTROMETER ..ROOM TEMP.
- 65-GL-02 GLAESER, W.
DETERMINATION OF THE SCATTERING LAWS OF SOME ORGANIC SUBSTANCES WITH SLOW NEUTRONS
NUKLEONIK, V.7, P.64 (1965)
BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING LAW/ SIGMA (E-E-PRIME, THETA)/ FREQUENCY SPECTRUM
- 65-GL-03 GLAESER, W./ EHRET, G./ MERKEL, A.
RECENT MEASUREMENTS OF THE SCATTERING LAWS OF SOME HYDROGENOUS MODERATORS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.167 (1965)
C6.H6/ H2.O/ ZR-H ..SCATTERING LAW/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID ..20DC FOR C6.H6/ 241DC FOR H2.O/ 210DC FOR ZR-H
- 65-GL-04 GLASSGOLD, A.E.
LOW TEMPERATURE PROPERTIES OF LIQUID HE (ISO, A=3)
BNL-940 (C-45), P.69 (1965)
HE ..THEORY
- 65-GO-01 GOLIKOV, V.V./ ZHOKORSKJA, I./ SHAPIRO, F.L./ SHKATULA, A./ JANIK, E.
SLOW NEUTRON SCATTERING IN WATER AND SOME ORGANIC SUBSTANCES
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.201 (1965)
C2.H6.O2/ H2.O/ C2.H4.O2/ C6.H6 ..EXPERIMENT/ LIQUID/ SOLID
- 65-GR-01 GRIFFING, G.W.
ON THE USE OF THE LANGEVIN EQUATION OF BROWNIAN MOTION FOR THE ANALYSES OF COLD AND SLOW NEUTRON SCATTERING BY LIQUID METHANE
J. CHEM. PHYS., V.43, P.3328-P.3336 (1965)
C.H4 ..THEORY/ LIQUID ..LANGEVIN EQUATION/ COMPARED WITH

- H EXPERIMENT
- 65-GR-02 GRIFFING, G.W.
APPLICATION OF THE LANGEVIN EQUATION TO THE SCATTERING
OF NEUTRONS FROM LIQUID METHANE
BNL-940(C-45), P.149 (1965)
METHANE ..THEORY/ LIQUID METHANE
- 65-GR-03 GRIFFING, G.W.
SCATTERING OF SLOW NEUTRONS BY DEUTERATED METHANE
PHYS. REV. A, V.136, P.1053 (1965)
METHANE ..GAS DYNAMICS/ C.D4
- 65-GR-04 GRINDLAY, J./ HOWARD, R.
ON THE LATTICE DYNAMICS AND SPECIFIC HEAT OF THE RARE-G
AS SOLIDS
LATTICE DYNAMICS, PERGAMON PRESS, P.129 (1965)
AR ..THEORY/ SOLID/ LATTICE DYNAMICS
- 65-HA-01 HAHN, H.
LATTICE VIBRATIONS IN MOLECULAR CRYSTALS AND NEUTRON SC
ATTERING
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.279
-P.289 (1965)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ MOLECULAR CRYSTA
L DYNAMICS/ SCATTERING FUNCTION
- 65-HA-02 HARDY, J.R./ KARO, A.M.
LATTICE DYNAMICS OF RUBIDIUM IODIDE IN RELATION TO THE
NA,CL-CS,CL PHASE TRANSITION
LATTICE DYNAMICS, PERGAMON PRESS, P.195 (1965)
RB,I ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNA
MICS
- 65-HA-03 HARKER, Y.D./ BRUGGER, R.M.
SLOW-NEUTRON INELASTIC SCATTERING FROM LOW-TEMPERATURE
GASEOUS METHANE, LIQUID METHANE AND SOLID METHANE
J. CHEM. PHYS., V.42, P.275-P.284 (1965)
METHANE ..SOLID/ LIQUID/ GAS/ SCATTERING LAW/ EXPERIMEN
T/ TOF/ MOLECULAR DYNAMICS ..125DK/ 99DK/ 83DK
- 65-HA-04 HARLING, O.K./ LEONARD-JR, B.R.
A MULTIPHONON NEUTRON SCATTERING STUDY OF HYDROGEN BOUN
DING IN ZIRCONIUM HYDRIDE
BNL-940(C-45), P.96-P.104 (1965)
ZR-H ..EXPERIMENT/ LATTICE DYNAMICS ..INCOHERENT/ TOF/
295DK
- 65-HA-05 HARRISON, W.A.
THEORY OF PHONON DISPERSION IN METAL
LATTICE DYNAMICS (ED. BY WALLIS, R.F) PERGAMON PRE
SS, P.85 (1965)
- THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/
LATTICE DYNAMICS
- 65-HA-06 HAUTECLER, S./ VAN-DINGEN, W.
LATTICE DYNAMICS OF NICKEL AND KREBS-S MODEL
BROOKHAVEN SYMPOSIUM, BNL-970(C-45), P.83 (1965)
NI ..PHONON DISPERSION
- 65-HO-01 HOFMEYER, C.H.
DETERMINATION OF THE DIFFUSION CONSTANTS DCE(T) AND DVC
T) OF THERMAL NEUTRONS IN H₂O, PHENYLENE, ZR-H₁,99 AND
D₂O BY MEASUREMENT OF SCATTERING ANGULAR DISTRIBUTION
3, BENZENE, DIPHENYL,
0- M- P- TERPHEYL
NUKLEONIK, V.7, P.286 (1965)
BENZENE/ BIPHENYL/ TERPHEYL ..EXPERIMENT ..21DC-150DC
- 65-HO-02 HOLAS, A.
NOTE ON DISPERSION CURVE CALCULATIONS IN ZINC
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.205
(1965)
ZN ..LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION
- 65-HO-03 HONECK, H.C./ NALIBOFF, Y.D.
FLANGE
GA-6824 (1965)
COMPUTER-CODES
- 65-HO-04 HORSLEY, A.
NEUTRON CROSS SECTIONS OF THE PROTON IN THE ENERGY RANG
E 0.0001EV-20MEV
AWRE 0-23/65 (1965)
H ..CROSS SECTION EVALUATION ..SIGMA TOTAL
- 65-HU-01 HULIN, M.
LATTICE DYNAMICS OF TELLURIUM
LATTICE DYNAMICS, PERGAMON PRESS, P.135 (1965)
TE ..THEORY/ SOLID/ LATTICE DYNAMICS
- 65-11-01 IIJIMA, S./ TOKIZAWA, M.
UNCLE, AN IBM-7090 PROGRAM FOR CALCULATING THE SCATTERI
NG KERNELS FOR ANISOTROPIC CRYSTAL (IN JAPANESE)
JAERI-1087 (1965)
COMPUTER-CODES
- 65-1M-01 IMRY, Y./ PELAH, I./ WIENER, E.
PROTON DYNAMICS IN HYDROGEN-BONDED FERROELECTRICS
J. CHEM. PHYS., V.43, P.2332-P.2340 (1965)
K.H₂P.O₄/ K₂H.P.O₄/ K₃P.O₄ ..EXPERIMENT/ LATTICE DYN
AMICS ..TOF
- 65-1Y-01 IYENGER, P.K./ VENKATARAMAN, G./ VIJAYARAGHAVAN, P

- R./ ROY, A.P.
LATTICE DYNAMICS OF MAGNESIUM
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.15
3 (1965)
MG ..LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION
- 65-IV-02 IVENGER, P.K./ VENKATARAMANN, G./ VIJAYARAGHAVAN,
P.R./ ROY, A.P.
DISPERSION RELATIONS FOR PHONONS IN MAGNESIUM
LATTICE DYNAMICS (ED. BY WALLIS, R.F.), PERGAMON P
RESS, P.223 (1965)
MG ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMI
CS
- 65-JA-01 JANIK, J.A.
MOLECULAR DYNAMICS INVESTIGATED BY NEUTRON SCATTERING
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.243
-P.278 (1965)
H₂O ..SOLID/ LIQUID/ FREQUENCY DISTRIBUTION/ SIGMA,E
-PRIME,THETA
- 65-JO-01 JOSHI, S.K./ SHARMA, K.C.
THE NATURE OF THE PHONON SPECTRUM AND THE ANALYSIS OF L
ATTICE THERMAL CONDUCTIVITY
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.285
(1965)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
- 65-KA-01 KAGAN, J./ ZHERNOV, A.P.
EFFECT OF ANHARMONICITY ON THE PHONON SPECTRUM NEAR ITS
DISCONTINUITY
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.391
(1965)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
- 65-KI-01 KITAGAWA, T./ MIYAZAWA, T.
FREQUENCY DISTRIBUTION OF CRYSTAL VIBRATIONS AND SPECIF
IC HEAT OF POLYETHYLENE
REP, PROGR. POLYMER PHYS., V.8, P.53-P.56 (1965)
POLYETHYLENE ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE
DYNAMICS/ MOLECULAR DYNAMICS ..SPECIFIC HEAT
- 65-KL-01 KLEY, W./ PERETTI, J./ RUBIN, R./ VERDAN, G.
HYDROGEN MOTION IN PRIMARY SOLUTIONS OF HYDROGEN IN SOM
E TRANSITION ELEMENTS
BNL-940(C-45), P.105 (1965)
V-H/ NB-H/ PD-H ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBU
TION ..50DC FOR V-H/ 33DC FOR NB-H, PD-H
- 65-KO-01 KOPPEL, J.U./ YOUNG, J.A.
THE ROLE OF INTERFERENCE SCATTERING IN NEUTRON THERMAL I
ZATION BY HEAVY WATER
- NUKLEONIK, V.7, P.408-P.415 (1965)
D₂O ..LIQUID/ THEORY/ SIGMA (E)/ SIGMA (THETA,E)/ SCAT
TERING LAW/ NEUTRON SPECTRUM
- 65-KO-02 KORNBICHLER, S.
DETERMINATION OF THE DIFFUSION CONSTANTS D(E,T) AND AVE
-D(VKT) OF THERMAL NEUTRONS IN H₂O, PHENYLENE, ZR-H1.92
AND D₂O BY MEASUREMENT OF THE ANGULAR DISTRIBUTION OF
SCATTERED NEUTRONS, PART 2. ZIRCONIUM HYDRIDE AND HEAV
Y WATER (IN GERMANY)
NUKLEONIK, V.7, P.281 (1965)
D₂O/ ZR-H ..EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER
- 65-KR-01 KREBS, K.
DISPERSION CURVES AND LATTICE FREQUENCY DISTRIBUTION OF
METALS
PHYS. REV., V.138A, P.143-P.147 (1965)
LI/ NA/ K ..THEORY/ SOLID/ DISPERSION RELATION
- 65-KR-02 KROO, N./ BORGONOVI, G./ SKOELD, K./ LARSSON, K.R.
INELASTIC SCATTERING OF COLD NEUTRONS BY CONDENSED ARGO
N
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.101
(1965)
AR ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
- 65-LA-01 LARSSON, K.E./ DAHLBERG, U./ JOVIC, D.
COLLECTIVE ATOMIC MOTIONS IN LIQUID ALUMINIUM STUDIED B
Y COLD NEUTRON SCATTERING
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.117
(1965)
AL ..EXPERIMENT/ LIQUID/ DISPERSION RELATION/ FREQUENCY
DISTRIBUTION
- 65-LA-02 LARSSON, K.E.
LIQUID DYNAMICS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.3 (1
965)
REVIEW-ARTICLES ..LIQUID/ MOLECULAR DYNAMICS
- 65-LA-03 LAX, M.
COMMENTS ON THE SHELL MODEL FOR LATTICE VIBRATIONS
LATTICE DYNAMICS (ED. BY WALLIS, R.F.) PERGAMON PR
ESS, P.179 (1965)
THEORY-OF-SOLIDS ..THEORY
- 65-LE-01 LEHMAN, G.W./ WOLFRAM, T./ DE-WAMES, R.E.
STUDIES IN LATTICE DYNAMICS OF METALS USING THE A-S MOD
EL
LATTICE DYNAMICS, PERGAMON PRESS, P.101 (1965)
THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/
LATTICE DYNAMICS

- 65-LE-02 LEMMEL, H.
DETERMINATION OF THE DIFFUSION CONSTANTS D(E,T) AND AVE
-DV(T) OF THERMAL NEUTRONS IN H₂O, PHENYLENE, ZR-H1.92
AND D₂O BY MEASUREMENT OF THE ANGULAR DISTRIBUTION OF
SCATTERED NEUTRONS, PART 1. H₂O (IN GERMANY)
NUKLEONIK, V.7, P.266-P.280 (1965)
- H₂O ..EXPERIMENT/ LIQUID/ DISPERSION PARAMETER/ SIGMA
THETA,E
- 65-LO-01 LOMER, W.M.
NEUTRON SPECTROSCOPY OF SOLIDS - PART 1
CONTEMP. PHYS., V.7, P.278-P.293 (1965)
- REVIEW-ARTICLES ..REVIEW/ NEUTRON SCATTERING/ LATTICE D
YNAMICS
- 65-LO-02 LONG-PRICE, D.
PHONON IN WHITE TIN
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.109
(1965)
- SN ..EXPERIMENT/ TOF/ DISPERSION RELATION ..ROOM TEMPER
ATURE/ BODY CENTERED TETRAGONAL
- 65-MA-01 MATOKOV, L.V.
ASYMPTOTIC FORM OF THE SCATTERING LAW FOR SLOW NEUTRONS
AT. ENERG., USSR (SOV. AT. ENERGY), V.19 (V.19), P
.67-P.69 (P.940-P.943) (1965 (1965))
- SCATTERING-THEORIES ..SCATTERING FUNCTION
- 65-MA-02 MALISZEWSKI, E./ ROSULAWSKI, J.H./ SLEDZIEWSKA, D.
LATTICE DYNAMICS OF ZINC
LATTICE DYNAMICS, EDITED BY WALLIS, R.F., PERGAMON
PRESS, P.33 (1965)
- ZN ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 65-MA-03 MARADUDIN, A.A.
A SIMPLE EXPRESSION FOR THE QUARTIC ANHARMONIC CONTRIBU
TION TO THE HELMHOLTZ FREE ENERGY OF A SPECIAL MODEL OF
AN F.C.C. CRYSTAL
LA-3379-MS (1965)
- THEORY-OF-SOLIDS ..ANHARMONICITY/ THEORY ..HELMHOLTZ FR
EE ENERGY
- 65-MA-04 MATSUOKA, K./ ARAI, K.
MANUAL OF EGELSTAFF-SCHOFIELD MODEL CODE (E.S. CODE)
JAE RI-1094 (1965)
- COMPUTER-CODES
- 65-MI-01 MIKKE, K./ DOBRZYNSKI, L.
STUDIES OF AMMONIUM ION MOTIONS IN SOLID SOLUTIONS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.383
(1965)
- N.H4.1/ K.I ..FREQUENCY SPECTRA/ SOLID SOLUTION
- 65-MO-01 MOELLER, H.B./ MACKINTOSH, A.R.
INELASTIC SCATTERING OF NEUTRONS IN CHROMIUM
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.95
(1965)
- CR ..EXPERIMENT/ SOLID/ DISPERSION RELATION ..TRIPLE AX
IS SPECTROMETER
- 65-MO-02 MOELLER, H.B./ MACKINTOSH, A.R.
OBSERVATION OF RESONANT LATTICE MODES BY INELASTIC NEUT
RON SCATTERING
PHYS. REV. LETT., V.15, P.623 (1965)
- CH-W ..DISPERSION RELATION/ EXPERIMENT/ LATTICE DYNAMIC
S ..DISORDERED ALLOY
- 65-MO-03 MOZER, B./ OTNES, K./ PALEVSKY, H.
MEASURED VIBRATIONAL FREQUENCY DISTRIBUTION OF NI, V, T
I AND TI67-ZR33
LATTICE DYNAMICS, EDITED BY WALLIS, R.F., PERGAMON
PRESS, P.63 (1965)
- NI/ V/ TI/ TI-ZR ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIB
UTION
- 65-MU-01 MUSGRAVE, M.J.P.
LATTICE DYNAMICAL MODEL FOR GRAY AND WHITE TIN AND THEI
R RELEVANCE TO TRANSITIONS AT HIGH PRESSURE
LATTICE DYNAMICS, PERGAMON PRESS, P.189 (1965)
- SN ..THEORY/ SOLID/ LATTICE DYNAMICS
- 65-MY-01 MYERS, W./ DONOVAN, J.L./ KING, J.S.
POLYETHYLENE FREQUENCY SPECTRUM FROM WARM-NEUTRON SCATTE
RING
J. CHEM. PHYS., V.42, P.4299 (1965)
- POLYETHYLENE ..SIGMA(E,E-PRIME,THETA)/ FREQUENCY SPECTR
UM/ EXPERIMENT/ SOLID
- 65-MY-02 MYERS, W./ SUMMERFIELD, G.C./ KING, J.S.
NEUTRON SCATTERING IN STRETCH-ORIENTED POLYETHYLENE
BROOKHAVEN SYMPOSIUM, BNL-940 (C-45), P.126 (1965)
- POLYETHYLENE ..FREQUENCY SPECTRA
- 65-NA-01 NAKAGAWA, Y./ WOODS, A.D.B.
LATTICE DYNAMICS OF NIOBIUM
LATTICE DYNAMICS, EDITED BY WALLIS, R.F., PERGAMON
PRESS, P.39 (1965)
- NB ..EXPERIMENT/ SOLID/ DISPERSION RELATION
- 65-NA-02 NALIBOFF, Y.D.
LHK - AN IBM 7044 PROGRAM TO CALCULATE CROSS SECTIONS A
ND KERNELS FOR LIQUID PARA- AND ORTHO-HYDROGEN
GA-5652 (1965)

- COMPUTER-CODES/ HYDROGEN ..THEORY/ LIQUID
- 65-NE-01 NELKIN, M./ VAN-LEEUEWEN, J.M.J./ YIP, S.
A KINETIC DESCRIPTION OF THE VAN-HOVE CORRELATION FUNCT
IONS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.35-
P.58 (1965)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..KINETIC THEORY
- 65-NU-01 NUSIMOVICI, M.A./ BIRMAN, J.L.
LATTICE DYNAMICS OF WURTZITE, CD.S
PHYS. REV., V.156, P.925 (1965)
CD,S ..LATTICE DYNAMICS
- 65-OT-01 OTTEWITTE, E.H.
THE EFFECT OF TEMPERATURE, MICROSTRUCTURE OF SINTERED B
ERYLLIUM OXIDE ON THE SCATTERING CROSS SECTIONS FOR A S
NAP REACTOR
NAA-SR-MEMO-11604 (1965)
BE,O ..SIGMA(E)/ EXPERIMENS/ SOLID ..290DK/ 800DK/ 1300
DK/ 1500DK
- 65-PA-01 PAL, S./ SHARMA, P.K.
DISPERSION OF LATTICE WAVES IN TUNGSTEN
PHYS. LETT., V.19, P.105 (1965)
W ..THEORY/ PHONON DISPERSION
- 65-PA-02 PALEVSKY, H.
A STUDY OF THE DIFFUSIVE MOTIONS OF LIQUIDS BY MEANS OF
COLD-NEUTRON SCATTERING EXPERIMENTS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.265
(1965)
PB/ H2.O/ SN ..EXPERIMENT/ LIQUID
- 65-PA-03 PALEVSKY, H.
SLOW NEUTRON STUDIES OF MOLECULAR MOTIONS IN CONDENSED
MATTER
BNL-9297. (1965)
REVIEW-ARTICLES ..EXPERIMENT/ MOLECULAR DYNAMICS
- 65-PA-04 PATHAK, K.N.
THEORY OF ANHARMONIC CRYSTALS
PHYS. REV., V.139, P.1569 (1965)
THEORY-OF-SOLIDS ..ANHARMONICITY/ DISPERSION RELATION/
THEORY ..GREEN FUNCTION
- 65-PE-01 PECKHAM, G.
PHONON DISPERSION RELATIONS IN MAGNESIUM OXIDE
LATTICE DYNAMICS (ED. BY B.F.WALLIS), P.49 (1965)
MG.O ..LATTICE DYNAMICS
- 65-PE-02 PELAH, I./ KREBS, K./ IMRY, Y.
- INELASTIC NEUTRON SPECTRA AND THE VIRRATIONAL MODES OF
THE HYDROGEN LAYER IN ALKALI, AND ALKALINE-EARTH HYDROXID
ES
J. CHEM. PHYS., V.43, P.1864-P.1869 (1965)
CA.(O,H)2/ LI.O.H ..EXPERIMENT/ LATTICE DYNA
MICS ..TOF
- 65-PE-03 PELAH, I./ WIENER, E./ IMRY, J.
INDICATION OF PROTON TUNNELLING IN K.H2.P.O4 BY COMPARI
NG NEUTRON INELASTIC SCATTERING AND INFRARED MEASUREMEN
TS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.325
-P.331 (1965)
K.H2.P.O4/ K2.H.P.O4/ K3.P.O4 ..EXPERIMENT/ LATTICE DYN
AMICS ..TOF
- 65-PO-01 POPE, N.K./ NATION, R.
THE VAN HOVE SCATTERING FUNCTION FOR WATER
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.141
-P.146 (1965)
H2.O ..SCATTERING LAW/ CORRELATION FUNCTION
- 65-PO-02 POPE, N.K.
THE FORCE CONSTANTS OF GERMANIUM
LATTICE DYNAMICS, PERGAMON PRESS, P.147 (1965)
GE ..LATTICE DYNAMICS/ SOLID/ THEORY
- 65-PR-01 PRAKASH, S./ JOSHI, S.K.
FORCE CONSTANTS OF SODIUM
PHYS. REV., V.140A, P.1754 (1965)
NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 65-RA-01 RAHMAN, A.
NORMARIZATION OF DIFFRACTION DATA FROM LIQUIDS
J. CHEM. PHYS., V.42, P.3540 (1965)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID
- 65-RA-02 RANDOLPH, P.D.
SLOW NEUTRON SCATTERING STUDIES OF LIQUID AND SOLID ARG
ON
IDO-17089 (1965)
AR ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION
..LIQUID AND SOLID
- 65-RO-01 ROGALSKA, Z.
ROTATIONAL DYNAMICS OF SOLID METHANE MOLECULES BY SLOW
NEUTRON CROSS-SECTION MEASUREMENTS
ACTA PHYS. POL., V.27, P.581-P.586 (1965)
METHANE ..EXPERIMENT/ SOLID/ LIQUID/ TOTAL CROSS SECTIO
N ..105DK/ 80DK/ 1.5MEV-4.5MEV
- 65-RO-02 ROSENBAUM, M./ ZWEIFEL, P.F.

- QUASICLASSICAL THEORY OF NEUTRON SCATTERING
 PHYS. REV., V.137B, P.271-P.284 (1965)
 SCATTERING-THEORIES ..SCATTERING THEORY
- 65-RO-03 ROSENSTOCK, H.B.
 APPLICATION OF A SUM RULE TO THE STUDY OF INTERATOMIC F
 ORCES
 LATTICE DYNAMICS, P.205 (1965)
 THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/
 LATTICE DYNAMICS
- 65-RO-04 ROWE, J.M./ BROCKHOUSE, B.N./ SVENSSON, E.C.
 LATTICE DYNAMICS OF WHITE TIN
 PHYS. REV. LETT., V.14, P.554 (1965)
 SN ..EXPERIMENT/ DISPERSION RELATION ..BODY CENTERED TE
 TRAGONAL
- 65-RU-01 RUBIN, R./ PERETTI, J./ VERDAN, G./ KLEY, W.
 INELASTIC SCATTERING OF COLD NEUTRONS BY LOCALIZED MODE
 S IN VANADIUM HYDRID SYSTEM
 PHYS. LETT., V.14, P.100-P.102 (1965)
 V/ V-H ..EXPERIMENT/ SOLID/ ..ROOM TEMP, FOR V/ 150 DC
 FOR V-H/ LOCALIZED MODE IN V DUE TO H
- 65-RU-02 RUSH, J.J./ TAYLOR, T.I.
 STUDY OF LOW-FREQUENCY MOTIONS IN SEVERAL FERROELECTRIC
 SALTS BY THE INELASTIC SCATTERING OF COLD NEUTRONS
 INELASTIC SCATTERING OF NEUTRONS, V.2, P.333-P.345
 (1965)
 K4.FE.(C.N)6/ (N.H4)2.S.O4/ (N.H4.H.S.O4/ (N.H4)2.BE.F4
 ..EXPERIMENT/ MOLECULAR LATTICE DYNAMICS/ NEUTRON SPECT
 ROSCOPY ..TOF/ 296, 177 AND 125DK
- 65-SA-01 SAFFORD, G.J./ LOSACCO, F.
 STUDY OF LOW-FREQUENCY MOTIONS IN NYLON-6
 J. CHEM. PHYS., V.43, P.3404-P.3405 (1965)
 NYLON ..EXPERIMENT/ TOF SPECTRA/ FREQUENCY DISTRIBUTION
 / LATTICE DYNAMICS
- 65-SC-01 SCHMUNK, R.E./ BRUGGER, R.M./ RANDOLPH, P.D.
 INTERFERENCE EFFECTS IN SLOW NEUTRON INELASTIC SCATTERI
 NG FROM POLYCRYSTALLINE SOLIDS
 INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.379
 (1965)
 AL/ BE ..EXPERIMENT/ SCATTERING FUNCTION/ TOF/ FREQUENC
 Y DISTRIBUTION ..POLYCRYSTAL/ COHERENT SCATTERER
- 65-SC-02 SCHMUNK, R.E./ GAUIN, W.H.
 DISPERSION RELATIONS OF WHITE TIN
 PHYS. REV. LETT., V.14, P.44 (1965)
 SN ..EXPERIMENT/ DISPERSION RELATION ..BODY CENTERED TE
 TRAGONAL CRYSTAL
- 65-SE-01 SEARS, V.F.
 THE ITINERANT OSCILLATOR MODEL OF LIQUIDS
 PROC. PHYS. SOC., LONDON, V.86, P.953-P.964 (1965)
 NEUTRON-SCATTERING-IN-FLUIDS/ AR ..LIQUID/ CORRELATION
 FUNCTION
- 65-SE-02 SEARS, V.F.
 THEORY OF COLD NEUTRON SCATTERING BY HYDROGEN IN LIQUID
 ARGON
 PROC. PHYS. SOC., LONDON, V.86, P.965 (1965)
 H ..SCATTERING LAW
- 65-SH-01 SHAM, L.T.
 A CALCULATION OF THE PHONON FREQUENCIES IN SODIUM
 PROC. ROY. SOC., LONDON, SER. A, V.283, P.33 (1965)
- NA ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATI
 ON
- 65-SH-02 SHIMADA, S.
 NELKER, A CODE OF SCATTERING KERNEL CALCULATION FOR BOU
 ND HYDROGEN (IN JAPANESE)
 JAERI-1085 (1965)
 COMPUTER-CODES
- 65-SI-01 SIGMAR, D.J.
 THE SELF-CORRELATION FUNCTION OF REAL GASES
 INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.59-
 P.84 (1965)
 NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ GAS ,
 .SELF-CORRELATION FUNCTION
- 65-SI-02 SINGH, R.P./ MANI, K.K./ KELKAR, V.M.
 PHONON DISPERSION RELATIONS IN ALKALI METALS
 INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.77
 (1965)
 THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/
 LATTICE DYNAMICS ..ALKALI METAL
- 65-SI-03 SINGWI, K.S./ FELDMANN, G.
 COHERENT SCATTERING OF SLOW NEUTRONS BY LIQUID SODIUM
 INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.85-
 P.99 (1965)
 NA ..THEORY/ SCATTERING FUNCTION/ LIQUID ..PHONON IN LI
 QUID
- 65-SI-04 SINGWI, K.S.
 COHERENT SCATTERING OF SLOW NEUTRONS BY LIQUID ARGON
 PHYSICA, V.31, P.1257-P.1285 (1965)
 ARGON ..THEORY/ LIQUID/ SCATTERING LAW ..COHERENT SCATT
 ERING/ ONE-PHONON APPROXIMATION

- 65-SI-05 SINGWI, K.S./ ANDERSON, L.
KHON ANOMALY AND COHERENT SCATTERING OF SLOW NEUTRONS IN
N LIQUID METALS
PHYS. LETT., V.15, P.693 (1965)
NEUTRON-SCATTERING-IN-FLUIDS ..KOHN EFFECT
- 65-SI-06 SINHA, S.K./ SQUIRES, G.L.
THE FREQUENCIES OF THE NORMAL MODES OF COPPER
LATTICE DYNAMICS. (ED. BY WALLIS, R.F.), PERGAMON
PRESS, P.53 (1965)
CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/
TOF
- 65-SJ-01 SJOELANDER, A./ JOHNSON, R.
INTERPRETATION OF SLOW NEUTRON SCATTERING DATA IN METAL
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.61
(1965)
NEUTRON-SCATTERING-IN-SOLIDS ..DISPERSION RELATION/ THE
ORY/ SOLID/ LATTICE DYNAMICS ..METAL/ NEUTRON SCATTERIN
G
- 65-SL-01 SLATER, L.S.
THE TEMPERATURE VARIATION OF THE SCATTERING PROPERTIES
OF CRYSTALS
ADV. PHYS., V.14, P.1 (1965)
V/ SI/ CU/ NEUTRON-SCATTERING-IN-SOLIDS ..HARMONIC APPR
OXIMATION/ DEBYE APPROXIMATION
- 65-SO-01 SQUIRES, G.L.
MAASUREMENTS OF THE FREQUENCIES OF THE NORMAL MODES OF
MAGNESIUM
BROOKHAVEN SYMPOSIUM, BNL-970 (C-45), P.78 (1965)
MG ..PHONON DISPERSION/ EXPERIMENT
- 65-SR-01 SRINIVASAN, R./ RAO, R.R.
STRAIN DEPENDENCE OF THE FREQUENCIES AND THERMAL EXPANS
ION OF THE HEXAGONAL CLOSE-PACKED LATTICE
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.325
(1965)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
- 65-SR-02 SRIVASTAVA, P.L.
A COMPARISON BETWEEN THE ELECTRON-PHONON INTERACTIONS O
F TOYA AND BAILLY
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.49
(1965)
THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/
LATTICE DYNAMICS ..ELECTRON-PHONON INTERACTION
- 65-ST-01 STEDMAN, R./ NILSSON, G.
OBSERVATIONS ON THE FERMI SURFACE OF ALUMINUM BY NEUTRO
- N SPECTROMETRY
PHYS. REV. LETT., V.15, P.634 (1965)
AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
- 65-ST-02 STEDMAN, A.T./ NILSSON, G.
PHONON IN ALUMINIUM AT 80DK
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.211
(1965)
AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
..CRYSTAL SPECTROMETER/ 80DK
- 65-ST-03 STEELE, W.A./ PECORA, R.
SCATTERING FROM FLUIDS OF NONSPHERICAL MOLECULES. I. X-
RAY AND NEUTRONS, II. LIGHT
J. CHEM. PHYS., V.42, P.1863-P.1879 (1965)
SCATTERING-THEORIES ..THEORY/ STATISTICAL MECHANICS/ DI
FFERENTIAL CROSS SECTION/ CORRELATION FUNCTION ..ELASTI
C AND INELASTIC SCATTERING
- 65-ST-04 STILLER, H.
PROTON MOTIONS IN ACID AQUEOUS SOLUTIONS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.179
-P.189 (1965)
H,F-H2.O/ N,H4.F-H2.O ..EXPERIMENT/ SOLUTION/ BE-FILTER
DETECTOR SPECTRUM
- 65-ST-05 STRAKER, E.A.
INELASTIC NEUTRON SCATTERING FROM PRESSURIZED ETHANE
J. CHEM. PHYS., V.43, P.4134 (1965)
C2.H6 ..SCATTERING LAW
- 65-ST-06 STRAKER, E.A./ KING, J.S./ CARPENTER, J.M./ VINCEN
T, D.H.
INELASTIC SCATTERING OF THERMAL NEUTRONS FROM PRESSURIZ
ED ETHANE
BNL-940(C-45), P.142 (1965)
ETHANE ..EXPERIMENT/ PRESSURIZED ETHANE
- 65-ST-07 STRONG, K.A./ HARKER, Y.D./ BRUGGER, R.M.
SCATTERING OF SLOW NEUTRONS FROM AMMONIA AND HYDROGEN S
ULFIDE
J. CHEM. PHYS., V.42, P.1568-P.1572 (1965)
AMMONIA/ HYDROGEN SULFIDE ..EXPERIMENT/ GAS/ CROSS SECT
ION EVALUATION ..MTR-PHASE-CHOPPER
- 65-SU-01 SUMMERFIELD, G.C.
DETERMINATION OF THE PHONON SPECTRUM OF POLYETHYLENE BY
NEUTRON SCATTERING
J. CHEM. PHYS., V.43, P.1079-P.1080 (1965)
POLYETHYLENE ..THEORY ..SCATTERING CROSS SECTION FOR PO
LYETHYLENE

- 65-SU-02 SUNAKAWA, S. / FUKUI, Y.
THE PSEUDOPOTENTIAL FOR THE HARD-CORE INTERACTION
PROGR. THEOR. PHYS., KYOTO, V.34, P.693 (1965)
THEORY-OF-SOLIDS ..PSEUDOPOTENTIAL
- 65-SV-01 SVENSSON, E.C./ BROCKHOUSE, B.N./ ROWE, J.M.
'IN-BAND' MODES OF VIBRATIONS OF A DILUTE DISORDERED AL
LOYS CU(AU)
SOLID STATE COMMUN., V.3, P.245 (1965)
CU-AU ..EXPERIMENT/ DISPERSION RELATION ..3-AXIS-SPECTR
OMETER/ DISORDERED ALLOYS
- 65-TA-01 TASUMI, M./ SHIMANOCHI, T.
CRYSTAL VIBRATIONS AND INTERMOLECULAR FORCES OF POLYMET
HYLENE CRYSTALS
J. CHEM. PHYS., V.43, P.1245-P.1258 (1965)
POLYETHYLENE ..THEORY/ MOLECULAR DYNAMICS/ DISPERSION R
ELATION
- 65-TO-01 TOYA, T.
LATTICE DYNAMICS OF LEAD
LATTICE DYNAMICS, PERGAMON PRESS, P.91 (1965)
PB ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATI
ON
- 65-TO-02 TOYA, T.
ELECTRON-PHONON INTERACTIONS AND LATTICE DYNAMICS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.25
(1965)
NEUTRON-SCATTERING-IN-SOLIDS ..DISPERSION RELATION/ THE
ORY/ SOLID/ LATTICE DYNAMICS ..ELECTRON-PHONON INTERACT
ION
- 65-TU-01 TURCHIN, V.F.
CALCULATION OF DIFFERENTIAL SCATTERING CROSS SECTION OF
SLOW NEUTRON BY TIME INTEGRATION (IN RUSSIAN)
AT. ENERG., USSR (SOV. AT. ENERGY), V.19, P.428-P.
432 (1965)
H2.O ..LIQUID/ SOLID/ SCATTERING LAW/ FREQUENCY DISTRIB
UTION
65-TU-02 TURCHIN, V.F.
SLOW NEUTRONS
ISRAEL PROGRAM FOR SCIENTIFIC TRANSLATIONS (1965)
REVIEW-ARTICLES ..BOOK
- 65-TU-03 TURCHIN, V.F./ TARASOV, V.A.
ASYMPTOTIC FORMULAE FOR SLOW NEUTRON SCATTERING BY BOUN
D ATOMS
AT. ENERG., USSR (SOV. AT. ENERGY), V.18 (V.18), P
.118-P.121 (P.146-P.150) (1965 (1965))
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY ..(ENG
- LISH TRANSLATION FOR THIS PAPER IS ALSO PRESENTED IN J.
NUCL. ENERGY, V.20, P.319-P.317, 1966)
- 65-VA-01 VAN-LEEUWEN, J.M.J./ YIP, S.
DERIVATION OF KINETIC EQUATIONS FOR SLOW-NEUTRON SCATTE
RING
PHYS. REV. A, V.139, P.1138-P.1151 (1965)
SCATTERING-THEORIES ..THEORY ..KINETIC EQUATIONS/ DENSE
GAS
- 65-VE-01 VENKATARAMAN, G./ DENIZ, K.U./ IYENGAR, P.K./ VIJA
YARAGHAVAN, P.R./ ROY, A.P.
STUDY OF ELASTIC INCOHERENT SCATTERING BY AMMONIUM SALT
S
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.347
-P.353 (1965)
V/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN
.BR6 ..EXPERIMENT/ ELASTIC SCATTERING/ ANGULAR DISTRIBU
TION
- 65-VE-02 VERTEBNI, V.P./ DZYUB, I.P./ MAISTRENKO, A.N./ PA
SECHNIK, M.V.
COHERENT EFFECTS DURING THE INTERACTION OF SLOW NEUTRON
S WITH LIQUIDS
AT. ENERG., USSR (SOV. AT. ENERGY), V.18 (V.18), P
.452-P.455 (P.585-P.589) (1965 (1965))
N2/ O2 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID/ SOLID
S
- 65-WA-01 WALLER, I.
THEORETICAL INVESTIGATIONS OF THE INFLUENCE OF ANHARMON
ICITY AND IMPURITIES ON NEUTRON SCATTERING BY CRYSTALS
AND ON THE MOESSBAUER EFFECT
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.225
(1965)
NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ THEORY/ S
OLID ..IMPURITY/ NEUTRON/ CRYSTAL/ MOESSBAUER EFFECT
- 65-WA-02 WARREN, J.L./ WENZEL, R.G./ YARNELL, J.L.
DISPERSION CURVES FOR PHONONS IN DIAMOND
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.361
(1965)
DIAMOND ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNA
MICS
- 65-WA-03 WARREN, J.L.
CHARGED BOND CORRECTION TO THE DISPERSION CURVES OF DIA
MOND
BNL-940(C-45), P.88 (1965)
DIAMOND ..THEORY/ PHONON DISPERSION
- 65-WE-01 WEINSTOCK, J.

- NONANALYTICITY OF TRANSPORT COEFFICIENTS AND THE COMPLETE DENSITY EXPANSION OF MOMENTUM CORRELATION FUNCTIONS
PHYS. REV., V.140A, P.460-P.465 (1965)
THEORY-OF-FLUIDS ..AUTOCORRELATION FUNCTION
- 65-WH-01 WHITTEMORE, W.L.
DIFFERENTIAL NEUTRON THERMALIZATION
GA-6583 (1965)
POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION ..300DK/ 90DK
- 65-WH-02 WHITTEMORE, W.L.
INELASTIC SCATTERING OF NEUTRONS BY REACTOR TYPE GRAPHITE
BNL 940(C-45), P.94 (1965)
GRAPHITE ..EXPERIMENT
- 65-WH-03 WHITTEMORE, W.L.
THE NATURE OF HYDROGEN MOTION IN ZR-H DETERMINED FROM AN EXPERIMENTAL NEUTRON STUDY OF LARGE, BOUND ENERGY LEVELS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.305-P.315 (1965)
ZR-H ..EXPERIMENT ..HIGH-ENERGY INCIDENT NEUTRONS
- 65-WO-01 WOODS, A.D.B.
LATTICE DYNAMICS OF TRANSITION METALS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.87 (1965)
NB/ TA/ MO/ W ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
- 65-WO-02 WOODS, A.D.B./ POWELL, B.M.
PHONONS IN DISORDERED NIOBIUM-MOLYBDENUM ALLOYS
PHYS. REV. LETT., V.15, P.778 (1965)
NB-MO ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..DISORDERED ALLOYS
- 65-WO-03 WOODS, A.D.B.
LIQUID HELIUM DISPERSION CURVE AT LARGE MOMENTUM
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.191 (1965)
HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
- 65-WO-04 WOODS, A.D.B./ DOLLING, G./ COWLEY, R.A.
THE CRYSTAL DYNAMICS OF URANIUM DIOXIDE
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.1, P.373 (1965)
U.02 ..CRYSTAL DYNAMICS/ DISPERSION RELATION/ EXPERIMENT
- 65-YA-01 YARNELL, J.L./ WARREN, J.L./ KOENIG, S.H.
EXPERIMENTAL DISPERSION CURVES FOR PHONONS IN ALUMINUM LATTICE DYNAMICS. (ED. BY WALLIS, R.F.). PERGAMON PRESS, P.57 (1965)
AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
- 65-YJ-01 YIP, S./ RANGANATHAN, S.
DYNAMIC STRUCTURE FACTOR OF DILUTE GASES IN THE FOKKER-PLANCK APPROXIMATION
PHYS. FLUIDS, V.8, P.1956-P.1963 (1965)
NEUTRON-SCATTERING-IN-FLUIDS ..DILUTE GAS/ SCATTERING FUNCTION
- 65-YO-01 YOUNG, J.A./ KOPPEL, J.U.
CALCULATION OF THERMAL SCATTERING KERNELS
GA-6281 (1965)
BE/ C/ H₂O/ D₂O/ C.H₂/ H₂/ D₂ ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION
- 65-YO-02 YOUNG, J.A./ KOPPEL, J.U.
PHONON SPECTRUM OF GRAPHITE
J. CHEM. PHYS., V.42, P.357-P.364 (1965)
GRAPHITE ..THEORY/ FREQUENCY SPECTRUM/ BORN-VON KARMAN MODEL
- 65-YO-03 YOUNG, J.A./ WIKNER, N.F./ PARKS, D.E.
NEUTRON THERMALIZATION IN GRAPHITE 2
NUKLEONIK, V.7, P.295-P.300 (1965)
GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ NEUTRON SPECTRUM ..SCATTERING KERNEL/ 300DK
- 65-YO-04 YOUNG, J.A./ KOPPEL, J.U.
COHERENT INELASTIC SCATTERING FROM POLYCRYSTALLINE BERYLLIUM
PHYS. LETT., V.16, P.235 (1965)
BE ..POLYCRYSTAL/ SCATTERING LAW
- 65-ZE-01 ZEMLYANOV, M.G./ BROVMAN, E.G./ CHERNOPLKOV, N.A./ SHITIKOV, I.L.
STUDY OF DYNAMICS OF LITHIUM HYDRIDE AND DEUTERIDE BY INELASTIC SCATTERING OF COLD NEUTRONS
LA-TR-65-35 (1965)
LI.H ..THEORY/ BORN VON KARMAN MODEL/ SIGMA(E,E-PRIME,T HETA)
- 65-ZE-02 ZEMLYANOV, M.G./ CHERNDLEKOV, U.A./ SHITIKOV, J.L.
COLD NEUTRON SCATTERING BY POLYPHENYLS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.221 (1965)
C6,H6 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ LIQUID ..290DK

- 65-ZE-03 ZEMLYANOV, M.G./ BROVMAN, E.G./ CHERNOPEKOV, N.A.,
/ SHITIKOV, Y.L.
STUDY OF THE DYNAMICS OF LITHIUM HYDRIDE AND DEUTERIDE
IN THE INELASTIC SCATTERING OF COLD NEUTRONS
INELASTIC SCATTERING OF NEUTRONS, IAEA, V.2, P.431
(1965)
LI, H. .EXPERIMENT/ CALCULATION/ FREQUENCY DISTRIBUTION
- 65-ZY-01 JAPANESE NUCLEAR DATA COMMITTEE
SURVEY AND PROBLEMS IN THE STUDY OF THERMAL NEUTRON SCAT-
TERING (IN JAPANESE)
JAERI-REPORT-1086 (1965)
REVIEW-ARTICLES .CROSS SECTION EVALUATION
- 65-ZY-02 JAPANESE NUCLEAR DATA COMMITTEE
THEORETICAL CALCULATION FOR THERMAL NEUTRON SCATTERING
KERNEL
JAERI-1095 (1965)
REVIEW-ARTICLES .EVALUATION/ SCATTERING LAW
- 66-AD-01 ADKINS, C.R./ PERSIANI, P.J./ HWANG, R.N./ KAGANOV
E, J.J.
THE CHEMICAL BINDING EFFECTS ON THE RESONANCE LINE SHAP-
ES OF URANIUM-238 IN A U.O2 LATTICE
CONF-660303, P.134 (1966)
U.O2 .THEORY/ LATTICE DYNAMIC/ FREQUENCY DISTRIBUTION
.ROSONANCE LINE SHAPES
- 66-AH-01 AHLERS, G.
HEAT CAPACITY OF BERYLLIUM BELOW 30DK
PHYS. REV., V.145, P.419 (1966)
BE .EXPERIMENT/ DEBYE TEMPERATURE .HEAT CAPACITY/ FRO-
M 1,4 DK TO 30 DK
- 66-AN-01 ANIMALU, A.O.E./ BONSIGNORI, F./ BORTOLANI, V.
THE PHONON SPECTRA OF ALKALI METALS AND ALUMINIUM
NUOVO CIM., B, V.44, P.159-P.171 (1966)
NA/ K/ AL/ LI/ RB/ CS .THEORY/ PHONON DISPERSION/ MODE
L POTENTIAL
- 66-AN-02 ANTONINI, B./ PAOLETTI, A./ GAMBETTA, V.
TOTAL NEUTRON CROSS SECTION OF SOME POLYPHENYLS IN SOLI-
D AND LIQUIDPHASE
PHYSICA, V.32, P.119-P.126 (1966)
BENZENE/ BIPHENYL .EXPERIMENT/ SOLID/ LIQUID/ SIGMA(E)
- 66-AN-03 ANTUNEZ, H./ BEYSTER, J.R./ BROUWER, W./ CARRIVEAU
, G./ KOPPEL, J.U./
INEGRAL NEUTRON THERMALIZATION
GA-7091 (1966)
BE.O/ H2.O/ D2.O/ ZR-H .EXPERIMENT/ THEORY/ SCATTERING
- FUNCTION/ CROSS SECTION EVALUATION
- 66-AR-01 ARDENTE, V./ NARDELLI, G.F./ REATTO, L.
SLOW-NEUTRON SCATTERING BY LIQUIDS, A HINDERED-TRANSLAT-
OR MODEL
PHYS. REV., V.148, P.124-P.148 (1966)
NEUTRON-SCATTERING-IN-FLUIDS .THEORY/ CORRELATION FUNC-
TION/ SCATTERING FUNCTION .HINDERED-TRANSLATOR MODEL
- 66-AR-02 ARDENTE, A./ NARDELLI, G.F./ REATTO, L.
INCOHERENT SCATTERING OF SLOW NEUTRONS BY LIQUID, A HIN-
DERED-TRANSLATOR MODEL
REACTOR PHYSICS IN THE RESONANCE AND THERMAL REGIO-
NS, MIT PRESS, V.1, P.73 (1966)
NEUTRON-SCATTERING-IN-FLUIDS .MOLECULAR DYNAMICS/ LIQUID
ID/ THEORY/ FREQUENCY DISTRIBUTION
- 66-BA-01 BAJOREK, A./ JANIK, J.A./ JANIK, J.M./ PARLINSKI,
K./ SUKNIK-HRYNKIEWICZ, M.,
MOLECULAR DYNAMICS STUDY BY THE NEUTRON INELASTIC SCATT-
ERING METHOD, 2. METHYL IODIDE
JIUR-E3-3057 (1966)
METHYL IODIDE .MOLECULAR DYNAMICS/ EXPERIMENT
- 66-BA-02 BATA, L./ KROO, N.
INELASTIC NEUTRON SCATTERING BY DENSITY FLUCTUATIONS IN
C.O2 NEAR THE CRITICAL POINT
PHYS. LETT., V.24A, P.57 (1966)
C.O2 .EXPERIMENT .NEUTRON SCATTERING/ DENSITY FLUCTUA-
TION/ CRITICAL POINT
- 66-BE-01 BENTLE, G.G.
ELASTIC CONSTANTS OF SINGLE-CRYSTAL BE.O AT ROOM TEMPER-
ATURE
J. AMER. CERAM. SOC., V.2, P.201 (1966)
BE.O .EXPERIMENT/ LATTICE DYNAMICS
- 66-BE-02 BERNE, B.J./ BOON, N.P./ RICE, S.A.
ON THE CALCULATION OF AUTOCORRELATION FUNCTIONS OF DYNA-
MICAL VARIABLES
MISCELLANEOUS .AUTOCORRELATION FUNCTION
J. CHEM. PHYS., V.45, P.1086-P.1096 (1966)
- 66-BE-03 BESHAI, S.F.
TOTAL CROSS SECTIONS OF U, U.O2 AND TH.O2 FOR THERMAL A-
ND SUBTHERMAL NEUTRONS
AE-222 (1966)
U/ U.O2/ TH.O2 .EXPERIMENT/ TOTAL CROSS SECTION/ TOF
- 66-BE-04 BEVINGTON, P.R./ PETITT, G.A.
MANIAC, A COMPUTER CODE FOR CORRECTING NEUTRON SCATTERI-
NG ANGULAR DISTRIBUTIONS

- NUCL. INSTRUM. METHODS, V.44, P.341 (1966)
COMPUTER-CODES ..CODE/ NEUTRON SCATTERING/ ANGULAR DISTRIBUTION
- 66-BE-05 BEYSTER, J.R./ CARRIVEAN, G.
DIFFERENTIAL NEUTRON SCATTERING CROSS SECTION MEASUREMENTS
WASH-1068 (EANDC(US)85U), P.62 (1966)
H₂O ..LIQUID/ THEORY/ EXPERIMENT/ SIGMA (THETA,E) ..MULTIPLE SCATTERING CORRECTION
- 66-BE-06 BEYSTER, J.R./ NEILL, J.M./ YOUNG, J.C.
RECENT DEVELOPMENTS IN INTEGRAL NEUTRON THERMALIZATION REACTOR PHYSICS IN THE RESONANCE AND THERMAL REGIONS, MIT PRESS, V.1, P.151 (1966)
H₂O/ D₂O/ ZR-H/ GRAPHITE/ BE.O ..NEUTRON SPECTRUM/ COMPILATION/ LIQUID/ GAS
- 66-BL-01 BLANK, A.Y./ KANER, E.A.
THE PHONON SPECTRUM OF METALS IN MAGNETIC FIELD
ZH. EKSP. TEOR. FIZ. (SOV. PHYS. JETP), V.50 (V.23), P.1013-P.1023 (P.673-P.680) (1966)
THEORY-OF-SOLIDS ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS/ SOLID ..METAL
- 66-BO-01 BOFFI, V.C./ MARSICO, B./ MOLINARI, V.G./ SCOZZAFAVA, R.
NEUTRON DIFFUSION PARAMETERS IN BENZENE
NUCL. SCI. ENG., V.20, P.236 (1966)
BENZENE ..SIGMA-TRANSPORT(E)/ SIGMA(E,E-PRIME,THETA)/ THEORY/ GAS/ LIQUID/ DIFFUSION PARAMETER/ CROSS SECTION EVALUATION ..MU-BAR
- 66-BO-02 BOUTIN, H./ TREVINO, S./ PRASK, H.
LOW-FREQUENCY MOLECULAR MOTIONS IN AMMONIUM AZIDE
J. CHEM. PHYS., V.45, P.401-P.402 (1966)
N,H₄N₃ ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
- 66-BO-03 BOUTIN, H./ WHITTEMORE, W.L.
INVESTIGATION OF THE ALPHA-HELIX-RANDOM-COIL TRANSITION IN POLYGLUTAMIC ACID BY SLOW NEUTRON SCATTERING
J. CHEM. PHYS., V.44, P.3127-P.3128 (1966)
POLYGLUTAMIC ACID ..EXPERIMENT/ FREQUENCY SPECTRUM/ MOLECULAR DYNAMICS
- 66-BR-01 BREDOV, M.M./ KOTOV, B.A./ OKUNEVA, N.M./ OSKOTSKI, I. V.S./ SHAKH-BUDAGOV, A.L.
POSSIBILITY OF MEASURING THE THERMAL VIBRATION SPECTRUM G(OMEGA), USING COHERENT INELASTIC NEUTRON SCATTERING FROM A POLYCRYSTALLINE SAMPLE
FIZ. TVERD. TELA (SOV. PHYS. SOLID STATE), V.9 (V.9), P.287-P.293 (P.214-P.218) (1966)
- NEUTRON-SCATTERING-IN-SOLIDS ..FREQUENCY SPECTRUM/ SCATTERING THEORY
- 66-BR-02 BROECKER, B.
TOTAL NEUTRON CROSS SECTION MEASUREMENT IN HYDROGENEOUS COMPOUNDS
EANDC(E) 66 U (1966)
N,H₄CL/ N,H₄BR/ N,H₄I/ ZR-H/ TI-H ..SIGMA(E)/ EXPERIMENT/ CRYSTAL SPECTROMETER
- 66-BR-03 BROVMAN, E.G./ KAGAN, Y.
PHONON SPECTRUM OF WHITE TIN
FIZ. TVERD. TELA (SOV. PHYS. SOLID STATE), V.8 (V.8), P.1402-P.1416 (P.1120-P.1129) (1966) (1966)
SN ..THEORY/ PHONON DISPERSION AND STATE DENSITIES/ HEAT CAPACITY/ DEBYE TEMPERATURE/ WHITE TIN
- 66-BR-04 BRUGGER, R.M./ STRONG, K.A./ CARPENTOR, J.M.
BE.O DISPERSION RELATIONS
WASH-1068(EANDC(US)85U) (1966)
BE.O ..EXPERIMENT/ DISPERSION RELATION/ ROTATING CRYSTAL SPECTROMETER ..ROOM TEMPERATURE
- 66-BR-05 BRUGGER, R.M.
INTERPRETATION OF SCATTERING-LAW DATA REACTOR PHYSICS IN THE RESONANCE AND THERMAL REGION
NS, MIT PRESS, V.1, P.91 (1966)
METHANE/ ETHANE/ AL/ NA/ PB/ AR ..COMPILATION/ SCATTERING FUNCTION
- 66-BU-01 BUHRER, W./ SCHNEIDER, T./ GLASER, W.
PHONON DISPERSION IN COPPER
SOLID STATE COMMUN., V.4, P.443 (1966)
CU ..EXPERIMENT/ PHONON DISPERSION
- 66-CA-01 CANDELORE, N.R./ CAST, R.C.
A METHOD OF INCLUDING EPITHERMAL NEUTRON SCATTERING BY BOUND PROTONS IN COMBINED SLOWING-DOWN/ THERMAL CALCULATION BY MONTE CARLO
WAPD-TM-617 (1966)
MISCELLANEOUS ..SCATTERING THEORY
- 66-CO-01 COCHRAN, W./ COWLEY, R.A./ DOLLING, G./ ELCOMBE, M.M.
THE CRYSTAL DYNAMICS OF LEAD TELLURIDE
PROC. ROY. SOC., LONDON, SER. A, V.293, P.433-P.451 (1966)
Pb,Te ..EXPERIMENT/ MODEL CALCULATION/ PHONON DISPERSION/ FREQUENCY SPECTRA/ SPECIFIC HEAT/ THERMAL EXPANSION/ LIFE TIME
- 66-CO-02 COWLEY, R.A./ WOODS, A.D.B./ DOLLING, G.

- CRYSTAL DYNAMICS OF POTASSIUM, 1. PSEUDOPOTENTIAL ANALYSIS OF PHONON DISPERSION CURVES AT 9DK
 PHYS. REV., V.150, P.487 (1966)
 K ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION .
 .9DK
- 66-CO-03 COWLEY, E.R./ COWLEY, R.A.
 ANHARMONIC INTERACTION IN ALKALI HALIDES, II.
 PROC. ROY. SOC., LONDON, SER. A, V.292, P.209 (1966)
- 6) K.BR/ NA, I/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY/ PHONON DISPERSION
- 66-CZ-01 CZACHOR, A.
 LATTICE VIBRATIONS IN METALS OF A NON-BRAVAIS STRUCTURE
 INR-709-II (1966)
 THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY/ SOLID/ DISPERSION RELATION ..METAL
- 66-DE-01 DE-WETTE, F.W./ COTTERILL, R.M.J./ DOYAMA, M.
 LATTICE DYNAMICS OF COPPER WITH A MORSE POTENTIAL
 PHYS. LETT., V.23, P.309 (1966)
 CU ..THEORY/ PHONON DISPERSION
- 66-DE-02 DELTOUR, J.
 A NEW METHOD OF OBTAINING THE FREQUENCY SPECTRUM MOMENTS OF DISORDERED LATTICES BY A MONTE CARLO PROCESS
 PHYSICA, V.32, P.762 (1966)
 THEORY-OF-SOLIDS ..BORN-VON KARMAN MODEL/ FREQUENCY SPECTRUM/ THEORY ..MOMENT METHOD/ MONTE CARLO METHOD
- 66-DE-03 DESAI, R.C.
 ATOMIC MOTIONS IN MONATOMIC FLUIDS
 NYO-3326-13 (1966)
 AR ..THEORY/ LIQUID/ INTERMEDIATE SCATTERING FUNCTION
- 66-DE-04 DESAI, R.C./ NELKIN, M.
 ATOMIC MOTIONS IN A RIGID SPHERE GAS AS A PROBLEM IN NEUTRON TRANSPORT
 NUCL. SCI. ENG., V.24, P.142-P.152 (1966)
 NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ GAS/ CORRELATION FUNCTION ..NEUTRON DIFFUSION
- 66-DE-05 DESAI, R.C./ NELKIN, M.
 COLLECTIVE MOTION IN LIQUID ARGON
 PHYS. REV. LETT., V.16, P.839-P.841 (1966)
 AR ..THEORY/ LIQUID ..COLLECTIVE MOTION IN LIQUID
- 66-DE-06 DESAI, R.C.
 NON-GAUSSIAN CORRECTIONS TO VAN HOFES-GS(R,T) FOR A MONATOMIC GAS
 J. CHEM. PHYS., V.44, P.77-P.86 (1966)
- THEORY-OF-FLUIDS ..GAS/ CORRELATION FUNCTION/ THEORY ..NON-GAUSSIAN CORRECTION/ MONATOMIC GAS
- 66-DI-01 DIEDERICH, M.E./ TRIVISONNO, J.
 TEMPERATURE DEPENDENCE OF THE ELASTIC CONSTANTS OF SODIUM
 J. PHYS. CHEM. SOLIDS, V.27, P.637 (1966)
 NA ..EXPERIMENT ..SINGLE CRYSTAL/ 78 DK TO 195 DK/ ULTRASONIC PULSE ECHO TECHNIQUE
- 66-DJ-02 DIMITRIJEVIC, Z./ KRASNICKI, S./ RZANY, H./ TODOROVIC, J./ WANIC, A.
 NEUTRON INVESTIGATION OF TEMPERATURE EFFECTS IN THE MAGNON SPECTRUM OF MAGNETITE
 PHYS. STATUS SOLIDI, V.15, P.119-P.122 (1966)
 MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ DIFFUSE SCATTERING
- 66-DO-01 DOLLING, G./ COWLEY, R.A./ SCHITTENHELM, C.
 NORMAL VIBRATIONS OF POTASSIUM IODIDE
 PHYS. REV., V.147, P.577 (1966)
 K.I ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS
- 66-DO-02 DOLLING, G./ COWLEY, R.A.
 THE THERMODYNAMIC AND OPTICAL PROPERTIES OF GERMANIUM, SILICON, DIAMOND AND GALLIUM ARSENIDE
 PROC. PHYS. SOC., LONDON, V.88, P.463 (1966)
 GE/ SI/ DIAMOND/ G.A.S ..COHERENT INELASTIC SCATTERING STUDIES/ PHONON DISPERSION
- 66-DO-03 DORNER, B.
 MEASUREMENTS OF DISPERSION CURVES IN POLYCRYSTAL AND LIQUID AT TAU=0 (IN GERMANY)
 JUL-412-NP (1966)
 NEUTRON-SCATTERING-IN-FLUIDS ..EXPERIMENT/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ DISPERSION RELATION
- 66-DO-04 DORNER, B./ STILLER, H.H.
 INTERNAL DYNAMICS IN LOW TEMPERATURE PHASE OF MOLECULAR CRYSTAL C.H4
 JUL-476-NP (1966)
 C.H4 ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ SOLID ..6.5DK/ 2.7DK/ INVERSE-FILTER-METHOD
- 66-DO-05 DORNER, B./ STILLER, H.H.
 THE INTERNAL DYNAMICS IN LOW-TEMPERATURE PHASE OF MOLECULAR CRYSTAL C.H4
 PHYS. STATUS SOLIDI, V.18, P.795-P.806 (1966)
 C.H4 ..EXPERIMENT/ 6.5, 2.7, 18DK/ INVERTED FILTER METHOD

- 66-DO-06 DOWNES, J.S./ WHITE, J.W./ EGELSTAFF, P.A./ RAINEY, V.
LOCALIZED VIBRATIONS OF TRAPPED MOLECULES
PHYS. REV. LETT., V.17, P.533-P.536 (1966)
METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/
WATER-QUINOL/ AMMONIA-ZEOLITE ..EXPERIMENT/ TOF SPECTRUM/
TRAPPED MOLECULES
- 66-ED-01 EDER, O.J./ CHEN, S.H./ EGELSTAFF, P.A.
MOLECULAR MOTION OF HYDROGEN IN LIQUID ARGON AND NEON
PROC. PHYS. SOC., LONDON, V.89, P.833 (1966)
AR/ NE ..EXPERIMENT/ H IN LIQUID AR AND NE
- 66-EF-01 EFROS, A.L.
THEORY OF THERMAL DIFFUSION OF BROWNIAN PARTICLES
ZH. EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.50 (V.23),
P.809-P.817 (P.536-P.541) (1966) (1966)
THEORY-OF-FLUIDS ..THEORY/ LIQUID ..SELF-DIFFUSION
- 66-EG-01 EGELSTAFF, P.A./ DUFFILL, C./ RAINEY, V./ ENDERBY, J.E./ NORTH, D.M.
THE STRUCTURE FACTOR FOR LIQUID METALS AT LOW ANGLES
PHYS. LETT., V.21, P.286-P.288 (1966)
PB/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
- 66-EG-02 EGELSTAFF, P.A.
MICROSCOPIC TRANSPORT PHENOMENA IN LIQUIDS
REP. PROGR. PHYS., V.29, P.333-P.371 (1966)
REVIEW-ARTICLES ..LIQUID/ CORRELATION FUNCTION/ TRANSPORT PHENOMENA
- 66-GI-01 GILAT, G./ RAUBENHEIMER, L.J.
ACCURATE NUMERICAL METHOD FOR CALCULATING FREQUENCY DISTRIBUTIONS IN SOLIDS
PHYS. REV., V.144, P.390 (1966)
THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ SOLID/ THEORY ..EXTRAPOLATION METHOD
- 66-GI-02 GILAT, G./ NICKLOW, R.M.
NORMAL VIBRATIONS IN ALUMINUM AND DERIVED THERMODYNAMIC PROPERTIES
AL ..PHONON DISPERSION/ PHONON SPECTRA
SLOW NEUTRON SCATTERING IN A SUPERCONDUCTOR
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.8 (V.8),
P.1852-P.1855 (P.2320-P.2325) (1966) (1967)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY ..NEUTRON SCATTERING BY CONDUCTION ELECTRON/ SUPERCONDUCTOR
- 66-GL-01 GLAUBERMAN, A.E./ RUVINSKII, M.A.
EFFECT OF EXCITONS ON THE SCATTERING OF NEUTRONS BY CRYSTALS
PHYS. STATUS SOLIDI, V.13, P.233-P.238 (1966)
NEUTRON-SCATTERING-IN-SOLIDS/ MAGNETIC-SCATTERING ..THEORY/ SCATTERING BY EXCITONS
- 66-GO-01 GOLDBERG, M.D./ MUGHABGHAB, S.F./ PUROMIT, S.N./ M. AGURNO, B.A./ MAY, S.M.
NEUTRON CROSS SECTIONS VOLUME 2B, Z=41 TO 60
BNL-325 (2ND ED. SUPPL. 2) (1966)
COMPILATIONS ..SIGMA(E)
- 66-GR-01 GRAFFSTEIN, A./ RZESSOT, T./ WARDA, E.
THE NEUTRON DIFFUSION PARAMETERS OF EPOXYRESIN
INR-731-IXA-R (1966)
RESIN ..EXPERIMENT ..NEUTRON DIFFUSION PARAMETER
- 66-GU-01 GUPTA, N.P./ DAYAL, B.
THEORETICAL PHONON SPECTRA AND HEAT CAPACITIES OF SOLIDIFIED ARGON AND KRYPTON
PHYS. STATUS SOLIDI, V.15, P.465-P.472 (1966)
AR/ KR ..THEORY/ PHONON SPECTRA/ SPECIFIC HEAT
- 66-GU-02 GUPTA, R.P./ DAYAL, B.
LATTICE DYNAMICS OF ZINC
PHYS. STATUS SOLIDI, V.13, P.519-P.527 (1966)
ZN ..THEORY/ PHONON DISPERSION/ SIXTH-NEIGHBOUR MODEL
- 66-GU-03 GUPTA, R.P./ KISHORE, B.
VIBRATIONAL SPECTRUM AND SPECIFIC HEAT OF POTASSIUM ON SHARMA AND J/SHI'S ELECTRON GHS MODEL
PHYS. STATUS SOLIDI, V.13, P.261-P.264 (1966)
K ..THEORY/ PHONON SPECTRUM/ SPECIFIC HEAT
- 66-GU-04 GUPTA, R.P./ DAYAL, B.
LATTICE DYNAMICS OF ZINC
PHYS. STATUS SOLIDI, V.13, P.519 (1966)
ZN ..THEORY/ PHONON DISPERSION/ A TENSOR FORCE MODEL INCLUDING UP TO SIXTH-NEIGHBOUR INTERACTION
- 66-HA-01 HARKER, Y.D.
SOLID METHANE
WASH-1068 (EANDC (US) 85U), P.171 (1966)
METHANE ..SIGMA(E, E-PRIME, THETA)/ EXPERIMENT/ SOLID ..5 DK, 9DK, 18DK, 22DK/ E=34.7MV, THETA=48.1D, E=8 TO 45MV
- 66-HA-02 HARLING, O.K.
SLOW-NEUTRON WIDTH OF 200MEV VIBRATION LEVEL IN LIQUID H₂O
PHYS. LETT., V.22, P.15-P.16 (1966)

- H₂O .. EXPERIMENT/ SIGMA (E,E-PRIME,THETA)/ LIQUID
- 66-HA-03 HARLING, O.K.
SLOW NEUTRON SCATTERING FROM H₂O
WASH-1068 (EANDC(US) 85U), P.152 (1966)
- H₂O .. LIQUID/ EXPERIMENT/ SCATTERING LAW .. ROOM TEMP.
- 66-II-01 IJIMA, S.
ONE-PHONON COHERENT SCATTERING OF SLOW NEUTRONS FROM POLYCRYSTALLINE ALUMINUM
J. NUCL. SCI., TECHNOL., TOKYO, V.3, P.161-P.164 (1966)
- AL .. CALCULATION/ PHONON SPECTRUM/ SCATTERING FUNCTION/ COHERENT
- 66-IS-01 ISHMAEV, S.N./ MOSTOVOI, V.I./ NOZIK, N.V./ SADIKO V, I.P./ CHENYSHOV, A.A./
A STUDY OF THE TRANSIENT NEUTRON SPECTRA IN ZIRCONIUM HYDRIDE
AEC-TR-6805 (1966)
- ZR-H .. THEORY/ SOLID/ NEUTRON SPECTRUM
- 66-IV-01 IVANOV, G.K.
ELASTIC AND QUASI-ELASTIC SCATTERING OF NEUTRONS BY MOLECULES
ZH, EKSP. TEOR, FIZ. (SOV. PHYS.-JETP), V.50 (V.23), P.726-P.737 (P.481-P.488) (1966 (1966))
NEUTRON-SCATTERING-IN-FLUIDS .. THEORY/ MOLECULAR DYNAMICS .. QUASI-ELASTIC SCATTERING
- 66-IV-02 IVANOV, G.K.
THE ROLE OF DIFFUSION PROCESSES IN THE SCATTERING OF SLOW NEUTRONS IN LIQUIDS
ZH, EKSP. TEOR, FIZ. (SOV. PHYS.-JETP), V.51 (V.24), P.1120-P.1126 (P.749-P.753) (1966 (1967))
NEUTRON-SCATTERING-IN-FLUIDS .. GENERAL-THEORIES
- 66-KI-01 KIROUAC, G.J./ MOORE, W.E./ SEEMAN, K.W.
INELASTIC SCATTERING CROSS SECTIONS FOR POLYETHYLENE AND WATER IN THE GAS TRANSITION REGION
NUCL. SCI. ENG., V.25, P.300 (1966)
- H₂O/ POLYETHYLENE .. EXPERIMENT/ DOUBLE DIFFERENTIAL CROSS SECTION
- 66-KI-02 KIROUAC, G.J./ MOORE, W.E./ SEEMAN, K.W.
DOUBLE DIFFERENTIAL SCATTERING CROSS SECTIONS AND SCATTERING LAW FOR H₂O AT 300DK
KAPL-M-6536 (1966)
- H₂O .. SCATTERING LAW/ SIGMA (E-E-PRIME,THETA)/ EXPERIMENT .. 300DK
- 66-KI-03 KIROUAC, G.J./ MOORE, W.E./ SEEMANN, M.L.
POLYETHYLENE DOUBLE DIFFERENTIAL INELASTIC SCATTERING CROSS SECTIONS FOR EPITHERMAL NEUTRONS
CONF-660303, P.122 (1966)
- POLYETHYLENE .. EXPERIMENT/ SCATTERING FUNCTION .. 29DC
- 66-KI-04 KITAGAWA, T./ MIYAZAWA, T.
INTERCHAIN POTENTIAL, FREQUENCY DISTRIBUTION AND SPECIFIC HEAT OF POLYOXYMETHYLENE CRYSTAL
REP. PROGR. POLYMER PHYS., V.9, P.175-P.176 (1966)
- POLYOXYMETHYLENE .. THEORY/ FREQUENCY DISTRIBUTION/ SOLID .. SPECIFIC HEAT
- 66-KO-01 KOPPEL, J.U.
NEUTRON SCATTERING BY HYDROGENEOUS MODERATORS
GA-7055 (1966)
- POLYETHYLENE/ ZR-H/ H₂O .. SCATTERING FUNCTION/ SCATTERING CROSS SECTION/ NEUTRON SPECTRUM
- 66-KO-02 KOPPEL, J.U./ YOUNG, J.A.
SLOW NEUTRON SPECTRA IN MOLECULAR HYDROGEN AT LOW TEMPERATURE
NUKLEONIK, V.8, P.40-P.45 (1966)
- H₂ .. THEORY/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION .. 20.5DK
- 66-KO-03 KOPPEL, J.U./ TRIPLETT, J.R./ NALIBOFF, Y.D.
GASKET, A UNIFIED CODE FOR THERMAL NEUTRON SCATTERING
GA-7417 (1966)
- COMPUTER-CODES .. SCATTERING FUNCTION/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ SCATTERING THEORY
- 66-KO-04 KOPPEL, J.U.
NEUTRON SCATTERING BY HYDROGENEOUS MODERATORS
REACTOR PHYSICS IN THE RESONANCE AND THERMAL REGION
NS. MIT PRESS, V.1, P.3 (1966)
- H₂O/ POLYETHYLENE/ ZR-H/ H .. CROSS SECTION EVALUATION/ SCATTERING FUNCTION/ THEORY/ LIQUID/ SOLID/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS
- 66-KO-05 KOSALY, G./ SULT, G.
SLOW NEUTRON SCATTERING BY SOLID C.H₄ AND N.H₄.I
PHYSICA, V.32, P.1571 (1966)
- C.H₄/ N.H₄.I .. THEORY/ DIFFERENTIAL CROSS SECTION .. 86DK FOR C.H₄/ ROOM TEMP. FOR N.H₄.I
- 66-KO-06 KOSALY, G./ SULT, G.
ON THE MASS TENSOR APPROXIMATION OF SLOW NEUTRON SCATTERING
PHYSICA, V.32, P.16-P.26 (1966)
- SCATTERING-THEORIES .. THEORY .. MODIFICATION OF KRIEGER-NELKIN THEORY

- 66-KR-01 KRIVOGLAZ, M.A./ TIKHONOVA, E.A.
THE EFFECT OF GEOMETRICAL DISTORTIONS OF THE CRYSTAL LATTICE ON X-RAY AND THERMAL NEUTRON SCATTERING BY MULTICONSTITUENT UNORDERED SOLID SOLUTION
BNL-TR-104 (1966)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY
- 66-KU-01 KUCHER, T.I./ NECHIPORUK, V.V.
LATTICE VIBRATION FREQUENCIES OF DIAMOND
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.8 (V.8), P.317-P.320 (P.261-P.263) (1966)
DIAMOND ..THEORY/ PHONON DISPERSION
- 66-KU-02 KURI, P./ SAUER, P.
NOTE ON CALCULATING ENERGY VALUES OF ROTATIONALLY HINDERED LINEAR MOLECULES
Z. PHYS., V.194, P.478-P.481 (1966)
NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS ..LINEAR MOLECULES
- 66-LA-01 LARON, K./ BERGSTEDT, L.
PROTON MOTIONS IN COMPLEX HYDROGENEOUS LIQUID 1.A CROSS SECTION FOR QUASI-ELASTIC SCATTERING OF SLOW NEUTRONS
PHYS. REV., V.151, P.117 (1966)
ALCOHOL/ PENTANE ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ NEUTRON SPECTRA/ DIFFERENTIAL CROSS SECTION
- 66-LA-02 LARSSON, K.E./ AMARAL, L.O./ IVANCHEV, N./ RIPEANU, S./ BERGSTEDT, L./
PROTON MOTIONS IN COMPLEX HYDROGENEOUS LIQUIDS.2. RESULTS GAINED FROM SOME NEUTRON-SCATTERING EXPERIMENTS
PHYS. REV., V.151, P.126 (1966)
ALCOHOL/ PENTANE ..EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION ..153DK-333DK
- 66-LE-01 LECHNER, R./ QUITTNER, G.
PRESSURE-INDUCED PHONON FREQUENCY SHIFTS IN LEAD MEASURED BY INELASTIC NEUTRON SCATTERING
PHYS. REV. LETT., V.17, P.1259 (1966)
PB ..PHONON DISPERSION/ PRESSURE EFFECT
- 66-LO-01 LOMER, W.M.
NEUTRON SPECTROSCOPY OF SOLIDS - PART 2
CONTEMP. PHYS., V.7, P.401-P.438 (1966)
REVIEW-ARTICLES ..REVIEW/ MAGNETIC SCATTERING/ SPIN WAVES/ CRITICAL SCATTERING/ DEFECT SCATTERING
- 66-MA-01 MAHAN, G.D.
PHONON-BROADENED OPTICAL SPECTRA, URBACH-S RULE
PHYS. REV., V.145, P.602 (1966)
THEORY-OF-SOLIDS ..THEORY ..ELECTRON-PHONON INTERACTION
- 66-MA-02 MAHESH, P.S./ DAYAL, B.
LATTICE DYNAMICS AND SPECIFIC HEATS OF SOME TRANSITION METALS ON KREBS-S MODEL
PHYS. REV., V.143, P.443 (1966)
FE/ MO/ W ..THEORY/ PHONON DISPERSION AND FREQUENCY DISTRIBUTION
- 66-MC-01 MCMURRY, H.L./ RUSSELL, G.J./ BRUGGER, R.M.
SLOW-NEUTRON SCATTERING BY WATER
NUCL. SCI. ENG., V.25, P.248-P.260 (1966)
H2.O ..EXPERIMENT
- 66-MC-02 MCMURRY, H.L.
MODEL FOR CALCULATING THE SLOW NEUTRON SCATTERING BY LIQUID D2.O
IN-1020 (1966)
D2.O ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY SPECTRUM / SIGMA(E)/ SIGMA-TRANSPORT(E)/ SIGMA(E-E-PRIME, THETA)/ SCATTERING LAW ..295DK/ 423DK
- 66-MC-03 MCMURRY, H.L.
SLOW NEUTRON SCATTERING KERNELS FOR H2.O AT 423DK AND 500DK
IN-1019 (1966)
H2.O ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ SIGMA(E)/ SCATTERING LAW ..423DK/ 500DK
- 66-ME-01 MEERS, J.T.
EFFECTS OF NEUTRON DAMAGE ON THE MECHANICAL PROPERTIES OF PYROLYTIC AND SINGLE-CRYSTAL GRAPHITE
TID-22733 (1966)
GRAPHITE ..EXPERIMENT/ LATTICE DYNAMICS
- 66-MI-01 MINTS, M.Y.
ENERGY SPECTRUM OF A DISORDERED LINEAR CHAIN
ZH. EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.50 (V.23), P.1156-P.1166 (P.768-P.774) (1966) (1966)
THEORY-OF-SOLIDS ..SOLID/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS ..DISORDERED LINEAR CHAIN
- 66-MO-01 MOZER, B./ OTNES, K./ THAPER, C.
EXPERIMENTAL STUDY OF THE LATTICE DYNAMICS OF DISORDERED VANADIUM ALLOYS
PHYS. REV., V.152, P.535-P.539 (1966)
V-BE/ V-NI/ V-PT ..EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ ALLOY
- 66-MY-01 MYERS, W./ SUMMERFIELD, G.C./ KING, J.S.
NEUTRON SCATTERING IN STRETCH-ORIENTED POLYETHYLENE
J. CHEM. PHYS., V.44, P.184-P.187 (1966)
POLYETHYLENE ..MOLECULAR DYNAMICS/ EXPERIMENT/ SIGMA (E

-)/ FREQUENCY SPECTRUM
- 66-NA-01 NAKAHARA, Y./ TAKAHASHI, H.
ON THE ITINERANT OSCILLATOR MODEL OF LIQUIDS
PROC. PHYS. SOC., LONDON, V.89, P.747 (1966)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
- 66-NA-02 NAKAHARA, Y./ TAKAHASHI, H.
ON THE ITINERANT OSCILLATOR MODEL OF LIQUIDS
JAERI-MEMO-2311 (1966)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS
- 66-NE-01 NELKIN, M. / YIP, S.
BRILLOUIN SCATTERING BY GASES AS A TEST OF THE BOLTZMAN
N EQUATION
PHYS. FLUIDS, V.9, P.380 (1966)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING-LAW
- 66-NI-01 NIJBOER, B.R.A./ RAHMAN, A.
TIME EXPANSION OF CORRELATION FUNCTIONS AND THE THEORY
OF SLOW NEUTRON SCATTERING
PHYSICA, V.32, P.415-P.432 (1966)
SCATTERING-THEORIES ..SCATTERING FUNCTION/ CORRELATION
FUNCTION/ THEORY
- 66-NO-01 NOSSAL, R.
VALIDITY OF THE CONVOLUTION APPROXIMATION FOR THE VAN H
OVE G(K,T) FUNCTION
PHYS. REV., V.143, P.74 (1966)
SCATTERING-THEORIES ..CORRELATION FUNCTION/ SCATTERING
FUNCTION
- 66-NU-01 NUSIMOVICI, M.A./ BIRMAN, J.L.
SUM RULE FOR LATTICE VIBRATION OF WURTZITE STRUCTURES
J. PHYS. CHEM. SOLIDS, V.27, P.701 (1966)
THEORY-OF-SOLIDS ..DISPERSION RELATION/ BORN-VON KARMAN
MODEL/ THEORY ..SUM RULE/ WURTZITE STRUCTURE
- 66-OE-01 OEHME, H./ RICHTER, H.
MEASUREMENTS OF COHERENT SCATTERING OF NEUTRONS BY MOLT
EN SODIUM, CESIUM AND BISMUTH AT VARIOUS TEMPERATURES
NATURWISSENSCHAFTEN, V.53, P.16 (1966)
CS/ BI/ NA ..STRUCTURE FACTOR
- 66-PA-01 PALEVSKI, H.
SLOW NEUTRON STUDIES OF MOLECULAR MOTIONS IN CONDENSED
MATTER
J. CHIM. PHYS., V.63, P.157-P.167 (1966)
REVIEW-ARTICLES ..FILTER-CHOPPER METHOD/ DISPERSION REL
ATION/ FREQUENCY DISTRIBUTION FUNCTION/ QUASI-ELASTIC P
- EAK/ TIME OF FLIGHT TECHNIQUES
- 66-PA-02 PASKIN, A./ RAHMANN, A.
EFFECT OF A LONG-RANGE OSCILLATORY POTENTIAL ON THE RAD
IAL DISTRIBUTION FUNCTION AND THE CONSTANT OF SELF-DIFF
USION IN LIQUID NA
PHYS. REV. LETT., V.21, P.300-P.303 (1966)
NA ..THEORY/ LIQUID ..MOLECULAR POTENTIAL/ RADIAL DENSI
TY FUNCTION
- 66-PA-03 PASKIN, A.
THE DYNAMIC STRUCTURE OF LIQUIDS
BNL-50080(T-475) (1966)
REVIEW-ARTICLES/ AR/ NA/ CE/ RB ..LIQUID/ THEORY/ STRUC
TURE FACTOR/ VELOCITY AUTOCORRELATION FUNCTION..LIQUID
METAL
- 66-PA-04 PAWLEY, G.S./ COCHRAN, W./ COWLEY, R.A./ DOLLING,
G.
DIATOMIC FERROELECTRICS
PHYS. REV. LETT., V.17, P.753-P.755 (1966)
SN,TE ..EXPERIMENT/ PHONON DISPERSION/ TEMPERATURE DEPE
NDENCE
- 66-PA-05 PAYTON, D.N.
DYNAMICS OF DISORDERED HARMONIC LATTICES
LA-3510 (1966)
THEORY-OF-SOLIDS ..HARMONIC APPROXIMATION/ THEORY
- 66-PA-06 PAYTON, D.N./ VISSCHER, W.M.,
DYNAMICS OF DISORDERED HARMONIC LATTICES IN ONE, TWO AN
D THREE DIMENSIONS
LA-3471 (1966)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FREQUENCY DISTRIBU
TION/ THEORY ..DISORDERED HARMONIC LATTICE
- 66-PE-01 PELAH, I./ IMRY, J.
A SIMPLE INTERPRETATION OF THE QUASIELASTIC SCATTERING
OF SLOW NEUTRONS IN WATER
PHYS. LETT., V.21, P.248 (1966)
H2.O ..THEORY
- 66-PR-01 PRASK, H.J./ BOUTIN, H.
LOW-FREQUENCY MOTIONS OF H2.O MOLECULES IN CRYSTAL, 3
J. CHEM. PHYS., V.45, P.3284 (1966)
H2.O ..EXPERIMENT/ MOLECULAR DYNAMICS/ DIFFERENTIAL CRO
SS SECTION ..H2.O MOLECULES IN CRYSTAL
- 66-PU-01 PUROHIT, S.N.
ANALYSIS OF THE QUASI-ELASTIC SCATTERING OF NEUTRONS IN
HYDROGENEOUS LIQUIDS
AE-259 (1966)

- NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING LAW/ THEORY/
LIQUID/ INCOHERENT APPROXIMATION ..QUASI-ELASTIC SCATTE
RING
- 66-RA-01 RAHMAN, A.
LIQUID STRUCTURE AND SELF-DIFFUSION
J. CHEM. PHYS., V.45, P.2585 (1966)
NEUTRON-SCATTERING-IN-FLUIDS/ AR ..LIQUID/ FREQUENCY DI
STRIBUTION ..COMPUTER EXPERIMENT/ 85.5DK
- 66-RA-02 RAHMAN, A.
THE VELOCITY AUTOCORRELATION FUNCTION IN LIQUIDS FROM A
NEW POINT OF VIEW
REACTOR PHYSICS IN THE RESONANCE AND THERMAL REGIO
NS, MIT PRESS, V.1, P.123 (1966)
AR ..FREQUENCY DISTRIBUTION/ THEORY/ LIQUID/ MOLECULE D
YNAMICS ..COMPUTER EXPERIMENT
- 66-RA-03 RANDOLPH, P.D.
LIQUID LEAD
WASH-1068 (EANDC-US-85U), P.175 (1966)
LEAD ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..352DC
- 66-RA-04 RANDOLPH, P.D./ SINGWI, K.S.
SLOW NEUTRON SCATTERING AND COLLECTIVE MOTIONS IN LIQUID
D LEAD
PHYS. REV., V.152, P.99 (1966)
PB ..SCATTERING LAW/ LIQUID/ CRYSTAL SPECTROMETER/ EXPE
RIMENT ..COLLECTIVE MOTION
- 66-RA-05 RASHBA, E.I.
THEORY OF VIBRON SPECTRA OF MOLECULAR CRYSTALS
ZH. EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.50 (V.23
) P.1064-P.1080 (P.708-P.718) (1966 (1966))
THEORY-OF-SOLIDS ..THEORY/ MOLECULAR DYNAMICS
- 66-RO-01 ROSENSTOCK, H.B./ BLANKEN, G.
INTERATOMIC FORCES IN VARIOUS SOLIDS
PHYS. REV., V.145, P.546 (1966)
NA/ NB/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELAT
ION ..FORCE CONSTANTS FOR BORN-VON KARMAN MODEL
- 66-RU-01 RUSH, J.J./ TAYLOR, T.I.
NEUTRON-SCATTERING STUDY OF HINDERED ROTATIONAL MOTIONS
AND PHASE TRANSITIONS IN HEXAMETHYLBENZENE
J. CHEM. PHYS., V.44, P.2749 (1966)
HEXAMETHYLBENZENE ..EXPERIMENT/ SOLID/ FREQUENCY DISTRI
BUTION ..LOW-FREQUENCY MOTION/ NEAR 110DK/ NEAR 383DK
- 66-RU-02 RUSH, J.J./ FERRARO, J.R.
NEUTRON AND INFRARED SPECTRA OF H,CR,02 AND D,CR,02
J. CHEM. PHYS., V.44, P.2496-P.2498 (1966)
- H,CR,02 ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ MOLECULAR
CRYSTAL DYNAMICS ..TOF/ H,CR,02 AND D,CR,02
- 66-RU-03 RUSH, J.J./ FLOTOW, H.E./ CONNOR, D.W./ THAPER, C.
L.
VIBRATION SPECTRA OF YTTRIUM AND URANIUM HYDRIDES BY TH
E INELASTIC SCATTERING OF COLD NEUTRON
J. CHEM. PHYS., V.45, P.3817-P.3825 (1966)
Y-H/ U-H ..EXPERIMENT/ HYDROGEN VIBRATION/ OPTICAL BAND
SPECTRA
- 66-RU-04 RUSH, J.J./ LEUNG, P.S./ TAYLOR, T.I.
MOTIONS OF WATER MOLECULES IN POTASSIUM FERROCYANIDE TR
HYDRATE, WATER, AND ICE: A NEUTRON SCATTERING STUDY
J. CHEM. PHYS., V.45, P.1312 (1966)
H2.O ..INELASTIC SCATTERING SPECTRA
- 66-RU-05 RUSH, J.J./ LEUNG, P.S./ TAYLOR, T.I.
MOTIONS OF WATER MOLECULES IN POTASSIUM FERROCYANIDE TR
HYDRATE, WATER, AND ICE. A NEUTRON SCATTERING STUDY
J. CHEM. PHYS., V.45, P.1312-P.1317 (1966)
WATER-POTASSIUM FERROCYANIDE TRIHYDRATE ..EXPERIMENT/ M
OLECULAR MOTION/ FERROELECTRIC TRANSITION
- 66-SA-01 SAFFORD, G.J./ HAUMANN, A.W./ SIMON, F.T.
NEUTRON-SCATTERING STUDY OF THE INTERMOLECULAR AND CRYST
ALLINE MODES OF POLYETHYLENE
J. CHEM. PHYS., V.45, P.3787 (1966)
POLYETHYLENE ..FREQUENCY SPECTRUM/ NEUTRON SPECTRUM/ EX
PERIMENT/ LIQUID ..NEUTRON SCATTERING
- 66-SA-02 SAFFORD, G.J./ LOSACCO, F.J.
STUDY OF THE LOW-FREQUENCY OH(-) MOTIONS OF LI,OH BY N
EUTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.44, P.345-P.348 (1966)
LI,OH ..EXPERIMENT/ TOF SPECTRUM/ MOLECULAR DYNAMICS
- 66-SA-03 SAHM, V.C./ VENKATARAMAN, G./ ROY, A.P.
PHONON DISPERSION RELATIONS IN BERYLLIUM USING THE PSUE
DO POTENTIAL APPROACH
PHYS. LETT., V.23, P.633-P.634 (1966)
BE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 66-SA-04 SAUER, P.
ON HINDERED ROTATION OF LINEAR MOLECULES
Z. PHYS., V.194, P.360-P.372 (1966)
THEORY-OF-SOLIDS ..MOLECULAR DYNAMICS/ SOLID
- 66-SA-05 SAUNDERSON, D.H.
PRESSURE DEPENDENCE OF THE TA-(100) ZONE-BOUNDARY PHONO
N FREQUENCY IN RUBIDIUM IODIDE
PHYS. REV. LETT., V.17, P.530-P.533 (1966)

- RB.1 ..EXPERIMENT/ PHONON FREQUENCY/ PRESSURE EFFECT
- 66-SC-01 SCHLEMPER, E.O./ HAMILTON, W.C.
TOF/ 293DK/ 175DK/ 123DK
J. CHEM. PHYS., V.44, P.2499-P.2505 (1966)
(N,H₂)₂.SI.F6 ..EXPERIMENT/ NEUTRON SPECTROSCOPY
- 66-SC-02 SCHMIDT, U./ SAAD, M.
USE OF TOTALLY REFLECTED COLD NEUTRONS FOR MEASUREMENT
OF THE TEMPERATURE DEPENDENCE OF THE (N,P) CROSS SECTION
FOR CHEMICALLY BOUND PROTONS
EANDC(E) 66 U (1966)
BENZENE/ BIPHENYL/ TERPHENYL/ CYCLOHEXANE ..EXPERIMENT
- 66-SC-03 SCHMUNK, R.E.
BE DISPERSION RELATIONS
WASH-1068/ EANDC(US) 85U, P.164 (1966)
BE ..THEORY/ SOLID/ DISPERSION RELATION ..TEST OF SUM R
ULE
- 66-SC-04 SCHMUNK, R.E.
EXTENSION OF DISPERSION-RELATION MEASUREMENTS OF BERYLL
IUM
PHYS. REV., V.149, P.450-P.456 (1966)
BE ..EXPERIMENT/ DISPERSION RELATION ..(0001), (0110),
(1120) DIRECTION/ DATA GIVEN IN GRAPHICAL FORM
- 66-SE-01 SEARS, V.F.
THEORY OF GOLD NEUTRON SCATTERING BY HOMONUCLEAR DIATOM
IC LIQUIDS
CAN. J. PHYS., V.44, P.1279 (1966)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ MOLEC
ULAR ROTATIONS/ LIQUID/ THEORY ..HOMONUCLEAR DIATOMIC LI
QUID/ FREE ROTATION
- 66-SE-02 SEARS, V.F.
THEORY OF COLD NEUTRON SCATTERING BY HOMONUCLEAR DIATOM
IC LIQUIDS, 2 HINDERED ROTATION
CAN. J. PHYS., V.44, P.1299 (1966)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ MOLEC
ULAR ROTATION/ LIQUID/ THEORY ..HOMONUCLEAR DIATOMIC LI
QUID/ HINDERED ROTATION
- 66-SE-03 SEARS, V.F.
THE LAW OF CORRESPONDING STATES AND COLD NEUTRON SCATTE
RING BY LIQUID
CAN. J. PHYS., V.44, P.867 (1966)
NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LIQUID
D/ THEORY ..LAW OF CORRESPONDING STATES
- 66-SH-01 SHUKLA, M.M./ DAYAL, B.
LATTICE VIBRATIONS OF ALUMINIUM ON THE BASIS OF KREBS'S
- MODEL
PHYS. STATUS SOLIDI, V.16, P.513-P.516 (1966)
AL ..THEORY/ PHONON DISPERSION/ KREBS MODEL
- 66-SI-01 SIMPSON, O.D./ MOORE, M.S./ BERRETH, J.R.
TABULATION OF THE TOTAL NEUTRON CROSS SECTION OF U-232
IN-1015 (1966)
U ..EXPERIMENT/ SIGMA(E) ..0.01EV-10000EV
- 66-SI-02 SINHA, S.K.
LATTICE DYNAMICS OF COPPER
PHYS. REV., V.143, P.143 (1966)
CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/
TOF ..ROOM TEMPERATURE
- 66-SI-03 SINHA, S.K./ VENKATARAMAN, G.
EFFECT OF NUCLEAR SPIN CORRELATIONS ON THE SCATTERING O
F NEUTRONS BY MOLECULES
PHYS. REV., V.149, P.1 (1966)
NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..MOLECULAR DYNAM
ICS ..DIFFERENTIAL CROSS SECTION/ NUCLEAR SPIN CORRELAT
ION/ SPHERICAL-TOP MOLECULES
- 66-SK-01 SKOELD, K./ NELIN, G.
NEUTRON STUDY OF THE DIFFUSION OF HYDROGEN IN PALLADIUM
SOLID STATE COMMUN., V.4, P.303-P.306 (1966)
PD-H ..EXPERIMENT/ DIFFUSION BROADNING
- 66-SL-01 SLATER, J.C.
GREEN'S-FUNCTION METHOD IN THE ENERGY-BAND PROBLEM
PHYS. REV., V.145, P.599 (1966)
THEORY-OF-SOLIDS ..THEORY ..ELECTRON BAND/ GREEN FUNCTI
ON
- 66-SO-01 SOLOVEV, S.P./ KUKHTO, O.L./ CHERNOPLEKOV, N.A./ Z
ETLYANOV, M.G.
SCATTERING OF COLD NEUTRONS BY POLYCRYSTALLINE BARIUM,
STRONTIUM, AND LEAD TITANATES
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.8 (V.
8), P.2699-P.2708 (P.2156-P.2162) (1966 (1967))
SR, TI.03/ BA, TI.03/ PB, TI.03 ..EXPERIMENT/ LATTICE VIBR
ATION ..POLYCRYSTAL/ ROOM TEMP/ 470DC AND 520DC FOR PB,
TI.03
- 66-SP-01 SPARCK, S.D.
XLIBIT, ANL CROSS-SECTION LIBRARY CODE
ANL-7112 (TID-4500) (1966)
COMPUTER-CODES ..CDC-3600 PROGRAM
- 66-SQ-01 SQUIRES, G.L.
MEASUREMENTS OF THE FREQUENCIES OF THE NORMAL MODES IN
MAGNESIUM

- PROC. PHYS. SOC., LONDON, V.88, P.919 (1966)
MG .. PHONON DISPERSION
- 66-ST-01 STEDMAN, R./ NILSSON, G.
DISPERSION RELATIONS FOR PHONONS IN ALUMINUM AT 80 AND
300DK
PHYS. REV., V.145, P.492 (1966)
AL .. EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
.. 3-AXIS SPECTROMETER/ 80DK/ 300DK
- 66-SU-01 SUICH, J.E.
THE SENSITIVITY OF D2O MODERATE REACTOR PARAMETERS TO THE
RMAL NEUTRON SCATTERING LAW
CONF-660303, P.151 (1966)
D2.O .. NEUTRON SPECTRUM
- 66-SU-02 SUNAKAWA, S./ FUKUI, Y./ NISHIGORI, T.
MULTIPLE SCATTERING OF NEUTRONS AND CORRELATION FUNCTIO
NS
PROGR. THEORET. PHYS., KYOTO, V.35, P.228-P.240 (1
966)
SCATTERING-THEORIES .. DIFFERENTIAL CROSS SECTION/ MULTI
PLE SCATTERING
- 66-SZ-01 SZKATULA, A./ FULINSKI, A.
DYNAMICAL AND THERMODYNAMICAL STRUCTURE OF WATER FROM T
HE SCATTERING OF COLD NEUTRONS
INP-501-PS (1966)
H2.O .. LIQUID/ MOLECULAR DYNAMICS
- 66-TE-01 TEUTSCH, H./ MATEESCU, N./ NAHORNIAC, V./ DIACONES
CU, A.
COLD NEUTRON SCATTERING BY LIQUID NITROGEN
PHYS. LETT., V.22, P.558 (1966)
N2 .. EXPERIMENT/ LIQUID DYNAMICS
- 66-TR-01 TREVINO, S.F.
NEUTRON SCATTERING FROM ORIENTED POLYETHYLENE
J. CHEM. PHYS., V.45, P.757-P.759 (1966)
POLYETHYLENE .. EXPERIMENT/ NEUTRON SPECTROSCOPY .. TOF/
ORIENTED SAMPLE
- 66-TR-02 TREVINO, S./ BOUTIN, H.
LOW-ENERGY VIBRATIONAL MODES OF POLYOXYMETHYLENE BY NEU
TRON SCATTERING
J. CHEM. PHYS., V.45, P.2700-P.2702 (1966)
POLYOXYMETHYLENE .. EXPERIMENT/ FREQUENCY SPECTRA/ LATI
CE DYNAMICS
- 66-VE-01 VENKATARAMAN, G./ DASANNACHARYA, B.A./ RAO, K.R.
COLD NEUTRON SCATTERING FROM LIQUID C.D4
PHYS. LETT., V.23, P.226-P.227 (1966)
- METHANE .. LIQUID/ EXPERIMENT/ MOLECULAR DYNAMICS/ TOF
.. COHERENT
- 66-VE-02 VENKATARAMAN, G.
RECENT ADVANCES IN THE STUDY OF ATOMIC MOTIONS IN LIQUI
DS
PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE
PHYSICS SYMPOSIUM, DAE, BOMBAY, P.109-P.126 (1966)
REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS .. LIQUID
DYNAMICS
- 66-VE-03 VENKATARAMAN, G./ RAO, K.R./ DASANNACHARYA, B.A./
DAYANIDHI, P.K.
NEUTRON SCATTERING FROM GASEOUS METHANE AND AMMONIA
PROC. PHYS. SOC., LONDON, V.89, P.379-P.383 (1966)
AMMONIA/ METHANE .. THEORY/ CALCULATION/ CROSS SECTION/
GAS PHASE
- 66-VE-04 VENKATARAMAN, G./ DENIZ, K.U./ IYENGAR, P.K./ ROY,
A.P./ VIJAYARAGHAVAN, P.R.
STUDY OF THE ROTATIONAL BEHAVIOUR OF THE AMMONIUM ION I
N SEVERAL SALTS BY NEUTRON SPECTROMETRY
J. PHYS. CHEM. SOLIDS, V.27, P.1103-P.1123 (1966)
N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR
6 .. EXPERIMENT/ ROTATIONAL MODE/ N.H4 ION
- 66-WF-01 WEST, R.E./ BRUGGER, R.M./ GRIFFING, G.W.
COHERENT SCATTERING FROM C.D4 GAS
WASH-1068 (EANDC (US) 85U), P.171 (1966)
METHANE .. SCATTERING LAW/ EXPERIMENT/ THEORY/ GAS .. 306
DK/ C.D4
- 66-WF-02 WEST, R.E./ BRUGGER, R.M./ GRIFFING, G.W.
INTRAMOLECULAR COHERENT SCATTERING OF NEUTRONS BY C.D4
GAS
PHYS. REV., V.148, P.163-P.169 (1966)
C.H4 .. EXPERIMENT/ SCATTERING FUNCTION/ GAS/ MOLECULAR
DYNAMICS .. 306DK/ TOF
- 66-WH-01 WHITTEMORE, W.L.
SCATTERING OF NEUTRONS BY POLYETHYLENE. (GA-6456, 1966
)
NUCL. SCI, ENG., V.24, P.394 (1966)
POLYETHYLENE .. EXPERIMENT
- 66-WH-02 WHITTEMORE, W.L.
DIFFERENTIAL NEUTRON THERMALIZATION
GA-7287 (1966)
- D2.O/ GRAPHITE .. EXPERIMENT/ SCATTERING FUNCTION .. 24DC

- 66-WI-01 WILLIAMS, M.M.R.
THE SLOWING DOWN AND THERMALIZATION OF NEUTRONS
NORTH-HOLLAND, AMSTERDAM (1966)
REVIEW-ARTICLES ..BOOK
- 66-WO-01 WORDEN, J.R./ PURCELL, W.L./ LIKALA, R.C.
SENSITIVITY OF THERMAL REACTOR PARAMETERS TO SCATTERING
MODEL
CONF-660303, P.146 (1966)
H2.O/ D2.O/ GRAPHITE ..NEUTRON SPECTRUM/ SIGMA(E,E-PRIM
E)
- 66-YO-01 YOUNG, J.A.
ATOMIC MOTION IN MODERATORS
REACTOR PHYSICS IN THE RESONANCE AND THERMAL REGIO
NS, MIT PRESS, V.1, P.3 (1966)
BE/ C/ BE.O ..SCATTERING FUNCTION/ THEORY/ LATTICE DYNA
MICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
- 66-YO-02 YOUNG, J.A./ KOPPEL, J.U.
PHONON SPECTRUM OF BERYLLIUM OXIDE
GA-6862 (1966)
BE.O ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQ
UENCY SPECTRUM ..(THIS IS A PREPRINT OF A PAPER SUBMITT
ED FOR PUBLICATION IN NUCL. SCI. ENG.)
- 66-ZE-01 ZEMLYANOV, M.G./ SOMENKOV, V.A./ CHERNOPLKOV, N.A
AN INVESTIGATION OF INELASTIC NEUTRON SCATTERING BY A
CRYSTAL DOPED WITH LIGHT IMPURITY ATOMS
ZH. EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.52 (V.25
) , P.665-P.669 (P.436-P.438) (1966 (1977))
NI-BE ..EXPERIMENT/ LOCAL MODE/ PHONON SPECTRA
- 66-ZW-01 ZWANZIG, R.
APPROXIMATE EIGENFUNCTIONS OF THE LIOUVILLE OPERATOR IN
CLASSICAL MANY-BODY SYSTEMS
PHYS. REV., V.144, P.170 (1966)
THEORY-OF-FLUIDS ..STATISTICAL MECHANICS/ GAS/ LIQUID/
SOLID/ THEORY ..LIOUVILLE OPERATOR
- 66-ZY-01 JAPANESE NUCLEAR DATA COMMITTEE
HOW TO USE THE UNCLE CODE, SUPPLEMENT TO JAERI-1087
JAERI-MEMO-2354 (1966)
COMPUTER-CODES
- 66-ZY-02 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
INELASTIC SCATTERING OF NEUTRONS
JAERI-1113 (1966)
REVIEW-ARTICLES ..DYNAMICS OF SOLIDS AND LIQUIDS
- 67-AG-01 AGGARWAL, K.G.
LATTICE DYNAMICS OF DIAMOND
PROC. PHYS. SOC., LONDON, V.91, P.381-P.389 (1967)
DIAMOND ..THEORY/ PHONON DISPERSION/ TNO-NEIGHBOUR BORN
-VON KARMAN MODEL
- 67-AG-02 AGRAWAL, A.K./ YIP, S.
CORRELATION OF INFRARED AND INELASTIC NEUTRON SCATTERIN
G SPECTRA
J. CHEM. PHYS., V.46, P.1999-P.2000 (1967)
C.H4 ..THEORY/ LIQUID/ CROSS SECTION EVALUATION
- 67-AL-01 ALDRED, B.K./ EDEN, R.C./ WHITE, J.W.
NEUTRON SCATTERING SPECTROSCOPY OF LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.169 (1967)
ACETIC ACID/ ALCOHOL ..MOLECULAR DYNAMICS/ LIQUID/ EXPE
RIMENT
- 67-AL-02 ALDRED, B.K./ EDEN, R.C./ WHITE, J.W.
NEUTRON SCATTERING SPECTROSCOPY OF LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.169-P.191 (1967)
ACETIC ACID/ METHANOL ..EXPERIMENT/ TOF SPECTRUM/ QUASI
-ELASTIC PEAK WIDTH
- 67-AL-03 ALDRED, B.K./ EDEN, R.C./ WHITE, J.W.
NEUTRON SCATTERING SPECTROSCOPY OF LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.169-P.183 (1967)
ACETIC ACID/ METHANOL ..EXPERIMENT/ SUBSTITUTION OF DEU
TERIUM AND FLUORINE
- 67-AL-04 ALS-NIELSEN, J./ DIETRICH, O.W.
LONG RANGE ORDER AND CRITICAL SCATTERING OF NEUTRONS BE
LOW THE TRANSITION TEMPERATURE IN BETA-BRASS
PHYS. REV., V.153, P.717 (1967)
CU-ZN ..CRITICAL SCATTERING/ ALLOY
- 67-AX-01 AXMANN, A./ GISSLER, W.
SLOW NEUTRON SCATTERING BY POLYCRYSTALLINE SELENIUM AND
TELLURIUM (IN GERMANY, JUL-479-NP)
PHYS. STATUS SOLIDI, V.19, P.721-P.727 (1967)
SE/ TE ..EXPERIMENT/ TOF/ POLYCRYSTAL
- 67-BA-01 BAJOREK, A./ NATKANIEC, I./ PARLIMSKY, K./ SUDNIK-
HRYUKIEVICZ, M./ JANIK, J.A./
MOLECULAR DYNAMICS IN GASEOUS AND SOLID METHANE STUDIED
BY THE INELASTIC NEUTRON SCATTERING METHOD
PHYSICA, V.41, P.397 (1967)
METHANE ..EXPERIMENT/ GAS/ SOLID/ CRYSTAL SPECTROMETER
- 67-BA-02 BALLY, D./ TODIREANU, S./ TREPADUS, V./ TARINA, V.
THE NEUTRON DOUBLE DIFFERENTIAL CROSS SECTIONS OF METHA
NE AND ETHYLENE
PHYSICA, V.33, P.523-P.527 (1967)

- METHANE/ ETHYLENE ..GAS/ EXPERIMENT
- 67-BA-03 BARKER-JR, A.S./ VERLESER, H.W.
LONG WAVE OPTICAL PHONON VIBRATIONS IN MIXED CRYSTALS
SOLID STATE COMMUN., V.5, P.695-P.699 (1967)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
- 67-BA-04 BATA, L./ KROO, N.
INELASTIC NEUTRON SCATTERING BY DENSITY FLUCTUATIONS IN
C.O2 NEAR THE CRITICAL POINT
PHYS. LETT., V.24A, P.57 (1967)
C.O2 ..CRITICAL SCATTERING
- 67-BE-01 BERGSMAN, J./ VAN-DIJK, C./ TOCCHETTI, D.
NORMAL VIBRATIONS IN ALPHA-IRON
PHYS. LETT., V.24A, P.270 (1967)
FE ..DISPERSION RELATION/ EXPERIMENT/ SOLID/ LATTICE DY-
NAMICS/ CRYSTAL SPECTROMETER/ BORN-VON KARMAN MODEL ..M
ETAL
- 67-BE-02 BERNE, B./ FRISCH, H.I.
HIGH-FREQUENCY LINEAR RESPONSE OF CLASSICAL FLUIDS TO B
ROWNIAN OSCILLATORS
PHYS. REV., V.47, P.2477-P.2480 (1967)
THEORY-OF-FLUIDS ..LIQUID/ THEORY ..HIGH-FREQUENCY RESP
ONCE
- 67-BE-03 BEYSTER, J.R./ BORGONOV, G.M./ CARRIVEAU, G.W.
ANGULAR SCATTERING BY C.H2
GA-3030 (1967)
C.H2/ C6.H6/ ZR-H ..EXPERIMENT
- 67-BE-04 BEYSTER, J.R./ NEIL, J.M.
STATUS OF THERMAL NEUTRON SPECTRA
GA-7092 (CONF-670707-7) (1967)
REVIEW-ARTICLES
- 67-BI-01 BISCHOFF, F./ BRYANT, W.A./ ESCH, L.J./ LAJEUNESSE
, C./ MOORE, W.E./
EPITHEMAL NEUTRON INELASTIC SCATTERING
WASH-107, P.103 (1967)
POLYETHYLENE/ H2.O/ ZR-H/ NB-H/ U.O2 ..EXPERIMENT
- 67-BI-02 BITTER, M./ GISSLER, W./ SPRINGER, T.
LATTICE DYNAMICS OF SOLID HELIUM AT 2.9DK AND 125ATM BY
NEUTRON SCATTERING
PHYS. STATUS SOLIDI, V.23K, P.155-P.158 (1967)
HE ..EXPERIMENT/ PHONON DISPERSION
- 67-BI-03 BITTER, M./ GISSLER, W./ SPRINGER, T.
LATTICE DYNAMICS OF SOLID HELIUM AT 2.9 K AND 125 ATM B
Y NEUTRON SCATTERING
- HE ..PHONON DISPERSION
PHYS. STATUS SOLIDI, V.23K, P.155 (1967)
- 67-BJ-01 BJOERKMAN, G./ GRIMVALL, G.
POLARIZATION VECTORS FOR LATTICE VIBRATIONS IN SODIUM
PHYS. STATUS SOLIDI, V.19, P.863-P.865 (1967)
NA ..THEORY/ PHONON POLARIZATION/ KREBS MODEL
- 67-BJ-02 BJORKMAN, G./ LUNDQVIST, B.I./ SJOELANDER, A.
DAMPING OF PHONONS IN ALUMINIUM
PHYS. REV., V.159, P.551 (1967)
AL ..THEORY/ LATTICE DYNAMICS
- 67-BL-01 BLANCHARD, R./ VARSHNI, Y.D.
LATTICE DYNAMICS OF DIAMOND
PHYS. REV., V.159, P.599 (1967)
DIAMOND ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION
..SHELL MODEL CALCULATION/ DEBYE TEMP.
- 67-BL-02 BLINC, R./ DIMIC, V./ PETKOVSEK, J./ PIRKMAJER, E.
STUDY OF PROTON DYNAMICS IN PARAELECTRIC K.H2.P.O4 BY W
UASI-ELASTIC COLD NEUTRON SCATTERING
PHYS. LETT., V.26A, P.8-P.9 (1967)
K.H2.P.O4 ..MOLECULAR DYNAMICS/ SOLID/ EXPERIMENT
- 67-BO-01 BOON, J./ RICE, S.A.
MEMORY EFFECTS AND THE AUTOCORRELATION FUNCTION OF A DY-
NAMICAL VARIABLE
J. CHEM. PHYS., V.47, P.2480-P.2490 (1967)
AR/ THEORY-OF-FLUIDS ..THEORY/ LIQUID ..MOMENTUM AUTO-C
ORRELATION FUNCTION
- 67-BO-02 BORGONOV, G./ LOGIJDICE, G./ TOCCHETTI, D.
AN ANALYSIS OF LATTICE VIBRATIONS OF ORDERED FE3.AL
J. PHYS. CHEM. SOLIDS, V.28, P.467 (1967)
FE-AL ..PHONON DISPERSION/ FE3.AL
- 67-BO-03 BOYSTER, J.R./ MCMURRY, H.L.
ADJUSTER, A FORCE CONSTANT ADJUSTER PROGRAM TO OBTAIN L
EAST SQUARES FIT TO OBSERVED FREQUENCIES OF MOLECULES A
ND CRYSTALS
IN-1148 (1967)
COMPUTER-CODES ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DY-
NAMICS ..FORTRAN PROGRAM FOR THE IBM 7040
- 67-BR-01 BROCKHOUSE, B.N./ ABOU-HELAL, H.E./ HALLMAN, E.D.
LATTICE VIBRATION IN IRON AT 296DK
SOLID STATE COMMUN., V.5, P.211 (1967)
FE ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION
- 67-BR-02 BROVMAN, E.G./ KAGAN, Y.
ON THE PHONON SPECTRUM OF METALS

- ZH, EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.52 (V.25), P.557-P.574 (P.365-P.376) (1967 (1967))
 SN/ SN.02 .. DISPERSION RELATION/ FREQUENCY DISTRIBUTION / THEORY/ LATTICE DYNAMICS/ BORN-VON KARMAN MODEL/ CENTRAL-FORCE MODELS ..METAL
- 67-BR-03 BROWN, J.S./ HORTON, G.K.
 MODEL POTENTIALS AND THE DISPERSION LAW IN SOLID KRYPTON
 PHYS. REV. LETT., V.18, P.647 (1967)
- KR ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..73DK
- 67-BR-04 BRUGGER, R.M./ STRONG, K.A.
 LATTICE VIBRATIONS OF BE.O
 J. PHYS. CHEM. SOLIDS, V.28, P.249 (1967)
- BE.O ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..ROOM TEMPERATURE
- 67-BU-01 BUCKLAND, R.J./ SAUNDERSON, D.H.
 LONGITUDINAL OPTIC MODES IN MAGNESIUM OXIDE
 AERE-P-5467 (1967)
- MG.O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..TRIPLE AXIS SPECTROMETER
- 67-BU-02 BUYERS, W.J.L.
 LATTICE DYNAMICS OF SODIUM FLUORIDE
 PHYS. REV., V.153, P.923-P.930 (1967)
- NA.F ..EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
- 67-CA-01 CAGLIOTI, G./ CORCHIA, M./ RIZZI, G.
 NEUTRON DIFFRACTION ANALYSIS OF LIQUID ZINC. 1
 NUOVO CIM., B, V.49, P.222-P.226 (1967)
- ZINC ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
- 67-CA-02 CARBOTTE, J.P./ DYNES, R.C.
 CALCULATIONS OF THE SUPERCONDUCTING TRANSITION TEMPERATURE IN ALUMINIUM
 PHYS. LETT., A, V.25, P.685 (1967)
- AL ..THEORY/ SUPERCONDUCTING TRANSITION/ PHONON SPECTRA
- 67-CA-03 CARPENTER, J.M.
 ORIENTATION-AVERAGED AMPLITUDE OF THE ONE-QUANTUM TERM IN THE NEUTRON SCATTERING LAW FOR MOLECULAR GASES
 J. CHEM. PHYS., V.46, P.465 (1967)
- C2.F6/ BR2 ..SCATTERING LAW/ CORRELATION FUNCTION/ THEORY/ GAS/ MOLECULAR DYNAMICS ..TORSIONAL OSCILLATION
- 67-CA-04 CARRIVEAU, G.W.
 SINGLE DIFFERENTIAL CROSS SECTION OF ZIRCONIUM HYDRIDE
 GA-8345 (1967)
- ZR-H ..ANGULAR DISTRIBUTION/ TEMPERATURE EFFECT
- 67-CH-01 CHEN, S.H.
 GROUP-THEORETICAL ANALYSIS OF LATTICE VIBRATIONS IN METALLIC BETA-TIN
 PHYS. REV., V.163, P.532 (1967)
- SN ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES
- 67-CH-02 CHERNOPEKOV, N.A./ PANOVA, G.K./ ZEMLYANOV, M.G./ SAMOILOV, B.N./ KUTAITSEV, V.I.
 INVESTIGATION OF THE QUASI-LOCAL LEVEL IN THE VIBRATIONAL SPECTRUM OF THE TI LATTICE WITH HEAVY IMPURITY ATOMS
 PHYS. STATUS SOLIDI, V.20, P.767-P.770 (1967)
- TI-U ..EXPERIMENT/ LOCAL MODE/ TI0.95-U0.05
- 67-CL-01 CLENDENIN, W.W.
 CALCULATION OF THERMAL NEUTRON SCATTERING CROSS SECTION S FOR CRYSTALLINE MATERIALS, THE TOR PROGRAM
 LA-3823 (1967)
- COMPUTER-CODES ..CROSS SECTION EVALUATION/ SOLID/ SCATTERING FUNCTION ..FORTRAN LIST
- 67-CO-01 COCKING, S.J.
 HIGH FREQUENCY WAVES IN LIQUIDS METALS
 ADVAN. PHYS., V.16, P.189 (1967)
- AL/ PB/ BI/ RB/ SN ..SOLID/ LIQUID/ DISPERSION RELATION / EXPERIMENT
- 67-CO-02 COLLINS, A.T./ LIGHTOWLERS, E.C./ DEAN, P.J.
 LATTICE VIBRATION SPECTRA OF ALUMINIUM NITRIDE
 PHYS. REV., V.158, P.833 (1967)
- AL,N ..OPTICAL EXPERIMENT
- 67-CO-03 COWLEY, E.R./ OKAZAKI, A.
 THE LATTICE DYNAMICS OF THALLOUS BROMIDE
 PROC. ROY. SOC., LONDON, SER. A, V.300, P.45 (1967)
- TL,BR ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
- 67-CU-01 CURTIS, R.L./ GRIMSEY, R.A.
 INCITE - A FORTRAN-IV PROGRAM TO GENERATE THERMAL NEUTRON SPECTRA AND MULTIGROUP CONSTANTS USING ARBITRARY SCATTERING KERNELS
 IN-1062 (1967)
- COMPUTER-CODES ..NEUTRON SPECTRUM
- 67-CU-02 CUSACK, N.E.
 THE PHYSICS OF LIQUID METALS
 CONTEMP. PHYS., V.8, P.583-P.606 (1967)
- REVIEW-ARTICLES ..LIQUID METAL/ PHYSICAL PROPERTIES

- 67-DA-01 DANIELS, W.B./ SHIRANE, G./ FRAZER, B.C./ UMEBAYASHI, H./ LEAKE, J.A.
PHONON-DISPERSION MEASUREMENTS ON A KRYPTON SINGLE CRYSTAL
PHYS. REV. LETT., V.18, P.548-P.550 (1967)
KR ..EXPERIMENT/ PHONON DISPERSION/ 79DK
- 67-DA-02 DASANNACHARYA, B.A./ VENKATARAMAN, G.
DYNAMICS OF LIQUID C.H4 FROM COLD-NEUTRON SCATTERING
PHYS. REV., V.156, P.43 (1967)
C.H4 ..CROSS SECTION EVALUATION/ LIQUID/ EXPERIMENT/ DIFFUSION PARAMETER/ FREQUENCY DISTRIBUTION ..ROTATING CRYSTAL SPECTROMETER/ 98DK
- 67-DE-01 DEPLANTE, J.L.
PAIR INTERACTIONS AND PHONON SPECTRUM IN METAL (IN FRENCH)
J. PHYS., PARIS, V.28, P.465 (1967)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION ..CUBIC METAL/ KOHN EFFECT
- 67-DE-02 DESAI, R.C./ YIP, S.
SUM RULE CRITERION IN COHERENT SLOW NEUTRON SCATTERING IN LIQUIDS
PHYS. LETT., V.25A, P.211-P.212 (1967)
NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ THEORY ..SUM RULE
- 67-DE-03 DEWETTE, F.W./ NOSANOW, L.H./ WERTHAMER, N.R.
CALCULATION OF PHONON FREQUENCIES AND THERMODYNAMIC PROPERTIES OF CRYSTALLINE BCC HELIUM
PHYS. REV., V.162, P.824-P.834 (1967)
HE ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
- 67-DI-01 DIMITRIJEVIC, Z./ KRASNICKI, S./ TODOROVIC, J./ WANG, A.
NEUTRON INVESTIGATION OF MAGNONS IN MAGNETITE
PHYS. STATUS SOLIDI, V.22K, P.55-P.57 (1967)
MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
- 67-DO-01 DORNER, B./ PLESSER, T./ STILLER, H.
BRILLOUIN SCATTERING OF NEUTRONS FROM LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.160 (1967)
PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..LIQUID DYNAMICS/ METAL
- 67-DO-02 DORNER, B./ PLESSER, T./ STILLER, H.
BRILLOUIN SCATTERING OF NEUTRONS FROM LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.160-P.168 (1967)
- 67-DO-03 DORNER, B./ PLESSER, T./ STILLER, H.
BRILLOUIN SCATTERING OF NEUTRONS FROM LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.160-P.168 (1967)
PB ..EXPERIMENT/ POLYCRYSTAL/ LIQUID/ DISPERSION CURVES
- 67-EG-01 EGELSTAFF, P.A./ HAYWOOD, B.C./ WEBB, F.J.
MOLECULAR MOTIONS IN LIQUID AND SOLID HYDROGEN AND DEUTERIUM
PROC. PHYS. SOC., LONDON, V.90, P.681 (1967)
H2 ..MOLECULAR DYNAMICS/ SOLID/ LIQUID/ EXPERIMENT
- 67-EG-02 EGELSTAFF, P.A.
RADIATION SCATTERING DATA ON LIQUID METALS
ADVAN. PHYS., V.16, P.147 (1967)
REVIEW-ARTICLES ..LIQUID
- 67-EG-03 EGELSTAFF, P.A./ WIGNALL, G.D.
CRITICAL INELASTIC SCATTERING OF SLOW NEUTRONS FROM A BINARY LIQUID METAL MIXTURE (BI-ZN)
AERE-R-5627 (1967)
BI-ZN ..EXPERIMENT/ LIQUID ..QUASI-ELASTIC SCATTERING/ CONCENTRATION FLUCTUATION
- 67-EG-04 EGELSTAFF, P.A.
RADIATION SCATTERING STUDIES OF THE STRUCTURE AND TRANSPORT PROPERTIES OF LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.149-P.159 (1967)
REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING FUNCTION/ TRANSPORT PROPERTIES
- 67-EG-05 EGELSTAFF, P.A.
RADIATION SCATTERING STUDIES OF THE STRUCTURE AND TRANSPORT PROPERTIES OF LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.149-P.159 (1967)
REVIEW-ARTICLES ..LIQUID/ STRUCTURE/ TRANSPORT PROPERTIES/ NEUTRON SCATTERING
- 67-EG-06 EGELSTAFF, P.A.
RADIATION SCATTERING STUDIES OF THE STRUCTURE AND TRANSPORT PROPERTIES OF LIQUIDS
DISCUSS. FARADAY SOC., V.43, P.149-P.159 (1967)
REVIEW-ARTICLES ..THEORETICAL BACKGROUND
- 67-EG-07 EGELSTAFF, P.A./ HAYWOOD, B.C./ WEBB, F.J.
MOLECULAR MOTIONS IN LIQUID AND SOLID HYDROGEN AND DEUTERIUM
PROC. PHYS. SOC., LONDON, V.90, P.681 (1967)
H2 ..EXPERIMENT/ MOLECULAR MOTION/ LIQUID AND SOLID

- 67-EL-01 ELCOMBE, M.M.
SOME ASPECTS OF THE LATTICE DYNAMICS OF QUARTZ
PROC. PHYS. SOC., LONDON, V.91, P.947-P.958 (1967)
QUARTZ ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
- 67-EL-02 ELCOMBE, M.M.
THE CRYSTAL DYNAMICS OF LEAD SULPHIDE
PROC. ROY. SOC., LONDON, SER. A, V.300, P.210-P.217 (1967)
P.B.S ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ MODEL FITTING/ FREQUENCY SPECTRUM
- 67-EL-03 ELLIOTT, R.J./ TAYLOR, D.W.
VIBRATIONS OF RANDOM DILUTE ALLOYS
PROC. ROY. SOC., LONDON, SER. A, V.296, P.161-P.188 (1967)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE DYNAMICS ..IMPURITY EFFECT
- 67-EL-04 ELLIOTT, R.J./ HARTMAN, W.H.
THEORY OF NEUTRON SCATTERING FROM LIQUID AND SOLID HYDROGEN
PROC. PHYS. SOC., LONDON, V.90, P.671-P.680 (1967)
H2 ..MOLECULAR DYNAMICS/ THEORY/ SIGMA(THETA,E)
- 67-EL-05 ELLIOTT, R.J./ THORPE, M.F.
GROUP THEORETICAL SELECTION RULES IN INELASTIC NEUTRON SCATTERING
PROC. PHYS. SOC., LONDON, V.91, P.903-P.916 (1967)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY ..PHONON/ MAGNON/ GROUP THEORY
- 67-EN-01 ENGLMAN, R./ RUPPIN, R.
OPTICAL LATTICE VIBRATIONS IN FINITE IONIC CRYSTALS I. IN THE ABSENCE OF RETARDATION
IA-1117 (1967)
NEUTRON-SCATTERING-IN-SOLIDS ..LATTICE DYNAMICS
- 67-FE-01 FERZIGER, J.H./ FEINSTEIN, D.L.
COLLECTIVE EFFECTS AND THE HYDRODYNAMIC APPROXIMATION IN NEUTRON SCATTERING FROM FLUID
PHYS. REV., V.158, P.1 (1967)
NEUTRON-SCATTERING-IN-FLUIDS/ NA ..SCATTERING THEORY/ GAS/ LIQUID/
- 67-FE-02 FERZIGER, J.H./ FEINSTEIN, D.L.
COLLECTIVE EFFECTS AND HYDRODYNAMIC APPROXIMATION IN NEUTRON SCATTERING FROM FLUIDS
PHYS. REV., V.158, P.97 (1967)
NA/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID DYNAMICS
- 67-GE-01 GEE, A.R./ ROBINSON, G.W.
RAMAN SPECTRUM OF CRYSTALLINE BENZENE
J. CHEM. PHYS., V.46, P.4847-P.4853 (1967)
BENZENE ..MOLECULAR DYNAMICS ..RAMAN SPECTRUM
- 67-GE-02 GEICK, R./ SCHROEDER, U./ STUKE, J.
LATTICE VIBRATIONAL PROPERTIES OF TRIGONAL SELENIUM
PHYS. STATUS SOLIDI, V.24, P.99-P.108 (1967)
SE ..INFRARED EXPERIMENT/ CALCULATION/ PHONON DISPERSION CURVE
- 67-GI-01 GIBBS, A.G./ LINDENMEIER, C.W.
ANALYTICAL EVALUATION OF THE LARGE TIME CONTRIBUTION TO NEUTRON SCATTERING CROSS SECTION
BNWL-SA-1085 (CONF-670707-4) (1967)
SCATTERING-THEORIES ..THEORY/ CROSS SECTION EVALUATION
- 67-GI-02 GILAT, G.
EXISTENCE OF AN INFINITY IN THE FREQUENCY DISTRIBUTION G(NU) OF MONOATOMIC BODY-CENTERED CUBIC CRYSTALS
PHYS. REV., V.157, P.540 (1967)
CR/ FE/ W/ THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRA/ BCC METALS
- 67-GL-01 GLAESER, W.
A REVIEW OF SCATTERING LAW STUDIES FOR MODERATORS
KFK 602 (1967)
REVIEW-ARTICLES/ H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATTERING/ SCATTERING LAW/ FREQUENCY SPECTRUM/ EXPERIMENT/ THEORY/ LIQUID/ SOLID/ SIGMA(E)/ SIGMA(E,THETA)/ NEUTRON SPECTRUM
- 67-GO-01 GOLAND, A.N./ OTNES, K.
QUASI-ELASTIC SCATTERING OF SLOW NEUTRONS BY WATER AND AQUEOUS SOLUTION OF SODIUM CHLORIDE
PHYS. REV., V.153, P.184 (1967)
H2.O ..EXPERIMENT/ LIQUID ..QUASI-ELASTIC SCATTERING
- 67-GU-01 GUPTA, R.P./ SHARMA, P.K.
DEBYE-WALLER FACTORS OF COPPER AND GOLD
J. CHEM. PHYS., V.46, P.1359-P.1361 (1967)
CU/ AU ..LATTICE DYNAMICS/ THEORY
- 67-HA-01 HARKER, T.D./ BRUGGER, R.M.
INVESTIGATION OF THE LOW-TEMPERATURE PHASE TRANSITION IN SOLID METHANE BY SLOW NEUTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.46, P.2201-P.2208 (1967)
METHANE ..EXPERIMENT/ SOLID/ TOF/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..5DK/ 9.1DK/ 18DK/ 22.1DK/ PHASE TRANSITION

- 67-HA-02 HAUTECLER, S./ VAN-DINGENEN, W.
LATTICE DYNAMICS OF NICKEL
PHYSICA, V.34, P.257-P.271 (1967)
NI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
..ROOM TEMP
- 67-HA-03 HAYWOOD, B.C.
THE SPECTRAL DENSITY OF HYDROGEN IN WATER
J. NUCL. ENERGY, V.21, P.249-P.262 (1967)
H2.O ..CROSS SECTION EVALUATION/ LIQUID/ THEORY/ FREQUE
NCY DISTRIBUTION/ SCATTERING FUNCTION/ SIGMA(E) ..ROOM
TEMPERATURE
- 67-HE-01 HENNINGER, E.H./ BUSCHERT, R.C./ HEATON, L.
ATOMIC RADIAL DISTRIBUTION IN AMORPHOUS SELENIUM BY X-R
AY AND NEUTRON DIFFRACTION
J. CHEM. PHYS., V.46, P.586 (1967)
SE ..SIGMA(THETA,E)/ CORRELATION FUNCTION/ EXPERIMENT/
LIQUID/ SOLID/ CROSS SECTION EVALUATION ..NEUTRON DIFFR
ACTION/ RADIAL DISTRIBUTION/ AMORPHOUS SOLID
- 67-HO-01 HO, P.S./ RUOFF, A.L.
A QUASI-HARMONIC CALCULATION OF LATTICE DYNAMICS FOR NA
PHYS. STATUS SOLIDI, V.23, P.489-P.499 (1967)
NA ..THEORY/ PHONON DISPERSION/ QUASI-HARMONIC MODEL
- 67-HO-02 HO, P.S./ RUOFF, A.L.
A QUASI-HARMONIC CALCULATION OF LATTICE DYNAMICS FOR NA
PHYS. STATUS SOLIDI, V.23, P.489-P.499 (1967)
NA ..THEORY/ PHONON DISPERSION/ QUASI-HARMONIC CALCULAT
ION
- 67-HO-03 HOEGBERG, T./ BOHLIN, L.
ANHARMONIC EFFECTS ON PHONONS IN SOLID KRYPTON
SOLID STATE COMMUN., V.5, P.951 (1967)
KR ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 67-HU-01 HUTCHINSON, P./ SCHOFIELD, P.
SCAT AND SLAB, TWO COMPUTER CODES FOR THE COMPUTATION T
HERMAL NEUTRON SCATTERING CROSS-SECTIONS
AERE-R-5536 (1967)
COMPUTER-CODES ..SCATTERING FUNCTION ..INCOHERENT GAUSS
IAN APPROXIMATION
- 67-IB-01 IBARRA-JR, H./ SHER, R.
THERMAL NEUTRON SPECTRUM MEASUREMENTS BY FOIL ACTIVATIO
N
NUCL. SCI. ENG., V.29, P.7 (1967)
H2.O ..EXPERIMENT/ NEUTRON SPECTRUM ..20DC
- 67-IS-01 ISHIKAWA, K.
ON THE QUASI-HARMONIC THEORY OF PHONON
PHYS. STATUS SOLIDI, V.21, P.137-P.144 (1967)
THEORY-OF-SOLIDS ..ANHARMONIC CRYSTAL/ PHONON SHIFT AND
DAMPING/ QUASI-HARMONIC APPROXIMATION
- 67-IV-01 IVERONOVA, U.I./ PARANGTOPO, X./ ZVYAGINA, A.P.
X-RAY DETERMINATION OF DISPERSION CURVES OF THE IONIC C
RYSTALS K.CL AND K.I
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.9 (V.
9), P.1609-P.1612 (P.1265-P.1268) (1967 (1967))
K.CL/ K.I ..LATTICE DYNAMICS/ DISPERSION RELATION ..X-R
AY EXPERIMENT
- 67-JA-01 JAEN, J.K./ KHAN, A.A.
WKB APPROXIMATION OF QUANTUM RADIAL DISTRIBUTION FUNCTI
ON APPLIED TO FLUID NEON
J. CHEM. PHYS., V.49, P.260 (1967)
NE ..THEORY/ LIQUID/ STATISTICAL MECHANICS
- 67-JA-02 JARVIS, R.G.
CALCULATIONS OF THE THERMAL SCATTERING LAW FOR SOLIDS A
ND LIQUIDS
AECL-2705 (1967)
COMPUTER-CODES
- 67-KA-01 KADOTANI, H./ IJIMA, S.
ON THE COHERENT SCATTERING OF SLOW NEUTRONS FROM HEAVY
WATER
J. NUCL. SCI. TECHNOL., TOKYO, V.4, P.625-P.627 (1
967)
D2.O ..THEORY/ PHONON SPECTRUM/ SCATTERING FUNCTION/ 29
5,423DK
- 67-KA-02 KARIMOV, I./ BROVMAN, E.G./ ZEMLYANOV, M.G./ SOMEN
KOV, V.A./ CHERNOPLEKOV, N.A.
BROADENING OF THE OPTICAL BRANCHES OF THE PHONON SPECTR
UM IN METAL HYDRIDES (IN RUSSIAN)
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.9 (V.
9), P.1991-P.1995 (P.1566-P.1568) (1967 (1968))
TH-H/ U-H/ CE-H ..LATTICE DYNAMICS/ THEORY
- 67-KA-03 KARIMOV, I./ ZEMLYANOV, M.G./ KOST, M.E./ SOMENKOV
, V.A./ CHERNOPLEKOV, N.A.
A LATTICE DYNAMICAL INVESTIGATION OF THE HYDRIDES CE-H2
, CE-H3, TH-H2, AND U-H2.7 USING INELASTIC SCATTERING O
F COLD NEUTRONS
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.9 (V.
9), P.1740-P.1743 (P.1366-P.1368) (1967 (1967))
CE-H/ TH-H/ U-H ..EXPERIMENT/ PHONON SPECTRA
- 67-KA-04 KAY, M.I./ RITTER, H.L.
THE COHERENT NEUTRON SCATTERING AMPLITUDES FOR SEVEN IS

- OTOPES OF TIN
ACTA CRYSTALLOGR., V.23, P.868 (1967)
SN ..SCATTERING AMPLITUDE/ EXPERIMENT
- 67-KI-01 KIROUAC, G.J.
A COMPARISON OF SCATTERING LAW DATA AND CALCULATION FOR WATER
KAPL-P-3179 (1967)
H2.O ..LIQUID/ SCATTERING FUNCTION
- 67-KI-02 KITAGAWA, T./ MIYAZAWA, T.
INELASTIC-SCATTERING CROSS SECTION OF NEUTRON BY CRYSTALS
VIBRATIONS OF POLYETHYLENE
J. CHEM. PHYS., V.47, P.337-P.338 (1967)
POLYETHYLENE ..THEORY/ FREQUENCY DISTRIBUTION/ SIGMA (E-E-PRIME.THETA)
- 67-KI-03 KITAGAWA, T./ MIYAZAWA, T.
INELASTIC SCATTERING CROSS SECTION OF NEUTRON BY CRYSTALS
VIBRATIONS OF POLYETHYLENE
REPORTS ON PROGRESS IN POLYMER PHYSICS IN JAPAN, V.10, P.185-P.186 (1967)
POLYETHYLENE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..DIFFERENTIAL CROSS SECTION
- 67-KI-04 KITCHENS, T.A./ MINKIEWICZ, V.J./ LIPSCHULTZ, F.P.
/ SHIRANE, G./ NATHANS, R.
THE PHONON DISPERSION RELATION FOR HCP HE-4 WITH A MOLAR VOLUME OF 21.1CM-3
BNL-12596 (1967)
HE ..SOLID/ EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..THREE CRYSTAL SPECTROMETER/ EO=13.5MEV
- 67-KI-05 KITTELBERGER, J.S./ HORNIG, D.F.
VIBRATIONAL SPECTRUM OF CRYSTALLINE H.F AND D.F
J. CHEM. PHYS., V.46, P.3099 (1967)
H.F ..EXPERIMENT/ LATTICE DYNAMICS ..INFRARED EXPERIMENT
- 67-KO-01 KOEHLER, T.R.
NEW APPROACH TO LATTICE DYNAMICS APPLIED TO SOLID 3-HEAT
AT ODK
PHYS. REV. LETT., V.18, P.654 (1967)
HE ..THEORY/ LATTICE DYNAMICS
- 67-KO-02 KOPPEL, J.U./ MARADUDIN, A.A.
PHONON DISPERSION RELATIONS FOR BERYLLIUM METAL
PHYS. LETT., V.24A, P.244 (1967)
BE ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..METAL
- 67-KO-03 KOPPEL, J.U./ TRIPLETT, J.R./ NALIBOFF, Y.D.
- GASKET, A UNIFIED CODE FOR THERMAL NEUTRON SCATTERING
GA-7417 (REV.) (1967)
COMPUTER-CODES ..SCATTERING FUNCTION ..DIFFERENTIAL CROSS SECTION
- 67-KO-04 KOPPEL, J.U./ YOUNG, J.A.
NEUTRON SCATTERING IN BERYLLIUM
GA-8031 (1967)
BE ..THEORY/ SOLID
- 67-KO-05 KOTOV, B.A./ OKUNEVA, N.M./ REGEL, A.H./ SHAKH-BUDAGOV, A.L.
COMPARISON OF SPECTRA OF COLD NEUTRONS SCATTERED BY AMORPHOUS AND CRYSTALLINE SELENIUM
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.9 (V.9), P.1227-P.1230 (P.955-P.957) (1967 (1967))
SE ..EXPERIMENT/ FREQUENCY SPECTRA/ AMORPHOUS AND CRYSTALLINE
- 67-KR-01 KREBS, K./ HOELZL, K.
INELASTIC NEUTRON SCATTERING AND LATTICE DYNAMICS OF METALS IN QUASI-ION APPROXIMATION
EUR-3621E-PART-1 (1967)
NEUTRON-SCATTERING-IN-SOLIDS ..LATTICE DYNAMICS/ THEORY / DISPERSION RELATION ..METAL
- 67-KU-01 KURKIJARVI, J.
ABOUT A NEXT TERM TO THE CONVOLUTION APPROXIMATION FOR THE TIME DEPENDENT PAIR CORRELATION FUNCTION
PHYSICA, V.35, P.143-P.147 (1967)
SCATTERING-THEORIES ..CORRELATION FUNCTION/ THEORY
- 67-LA-01 LAKATOS, K.
EFFECTS OF IMPURITIES ON LATTICE VIBRATIONS, A MODEL CALCULATION INCLUDING MASS AND FORCE CONSTANT CHANGES, NEUTRON SCATTERING
NYO-2391-45 (1967)
NEUTRON-SCATTERING-IN-SOLIDS/ AL ..LATTICE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION
- 67-LE-01 LEBOWITZ, J.L./ PERCUS, J.K.
KINETIC EQUATIONS AND DENSITY EXPANSIONS, EXACTLY SOLVABLE ONE-DIMENSIONAL SYSTEM
PHYS. REV., V.155, P.122-P.138 (1967)
THEORY-OF-FLUIDS ..LIQUID DYNAMICS
- 67-LE-02 LEVI, A.C.
ON THE MOTIONS OF ATOM IN A LIQUID AS A STOCHASTIC PROCESS
PHYSICA, V.36, P.324-P.344 (1967)
AR ..MOLECULAR DYNAMICS/ LIQUID/ FREQUENCY DISTRIBUTION / THEORY

- 67-LI-01 LIPSCHULTZ, F.P./ MINKIEWICZ, V.J./ KITCHENS, T.A.,
/ SHIRANE, G./ NATHANS, R.
PHONON DISPERSION MEASUREMENTS ON A HCP 4HE SINGLE CRYSTAL AT 27 ATM
PHYS. REV. LETT., V.19, P.1307 (1967)
HE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
- 67-LI-02 LITTON, G.M.
PROGRAM BRAGG, A FORTRAN-IV PROGRAM FOR CALCULATION BRAGG CURVES AND FLUX DISTRIBUTIONS
UCRL-17391 (1967)
COMPUTER-CODES
- 67-LO-01 LORD-JR, A.E.
COUPLING OF MAGNONS AND PHONONS AT HIGH FREQUENCIES
PHYS. STATUS SOLIDI, V.23, P.521-P.526 (1967)
THEORY-OF-SOLIDS ..MAGNON-PHONON COUPLING
- 67-LU-01 LURIE, N.A.
INFLUENCE OF ROTATIONAL LEVELS ON SLOW-NEUTRON SCATTERING BY LINEAR GASES
J. CHEM. PHYS., V.46, P.352 (1967)
NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS/ GAS/THEORY/ CROSS SECTION EVALUATION
- 67-MA-01 MARSTON, R.L./ DICK, B.G.
LATTICE DYNAMICS OF THE EXCHANGE CHARGE MODEL OF ALKALI HALIDES
SOLID STATE COMMUN., V.5, P.731-P.734 (1967)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
- 67-MA-02 MARTIN, D.G.
A STUDY OF VERY SMALL DEFECT CLUSTERS IN IRRADIATED MAGNESIUM OXIDE, USING LONG-WAVELENGTH NEUTRON SCATTERING MEASUREMENTS
AERE-R-5521 (1967)
MG,O ..SOLID/ EXPERIMENT ..DEFECT SCATTERING/ SCATTERING THEORY
- 67-MA-03 MARTIN, D.G.
THE MATHEMATICAL FORMULATION OF THE SCATTERING OF LONG WAVELENGTH NEUTRONS BY DEFECTS IN SOLID
AERE-R-5479 (1967)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID ..DEFECT SCATTERING
- 67-MC-01 MCMURRY, H.L.
PREPARATION OF H₂O AND D₂O SLOW NEUTRON SCATTERING KERNELS FOR ENDF USING MR TYPE MODELS
IN-1065 (1967)
- H₂O/ D₂O ..SIGMA(E-PRIME)/ COMPILATION
- 67-MC-02 MCMURRY, H.L./ SOLBRIG-JR, A.W./ BOYTER, J.K./ NOBLE, C.
THE USE OF VALENCE FORCE POTENTIALS IN CALCULATING CRYSTALL VIBRATIONS
J. PHYS. CHEM. SOLIDS, V.28, P.2359 (1967)
DIAMOND ..LATTICE DYNAMICS/ DISPERSION RELATION/ THEORY
- 67-ME-01 MEYERS, V.W.
INELASTIC SCATTERING OF COLD NEUTRONS IN POLYCRYSTALLINE GRAY TIN
J. PHYS. CHEM. SOLIDS, V.28, P.2207-P.2210 (1967)
SN ..EXPERIMENT/ PHONON SPECTRUM
- 67-MI-01 MIKOLAJ, P.G./ PINGS, C.J.
STRUCTURE OF LIQUIDS, 4. DIRECT CORRELATIONS FUNCTIONS OF LIQUID ARGON
J. CHEM. PHYS., V.46, P.1412-P.1420 (1967)
AR ..LIQUID/ EXPERIMENT
- 67-MI-02 MIKOLAJ, P.G./ PINGS, C.J.
STRUCTURE OF LIQUIDS, 3. AN X-RAY DIFFRACTION STUDY OF FLUID ARGON
J. CHEM. PHYS., V.46, P.1401-P.1411 (1967)
AR ..EXPERIMENT/ LIQUID ..RADIAL DISTRIBUTION/ -130DC--110DC/ X-RAY
- 67-MI-03 MINKIEWICZ, V.J./ SHIRANE, G./ NATHANS, R.
PHONON DISPERSION RELATION FOR IRON
PHYS. REV., V.162, P.528-P.531 (1967)
FE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..ROOM TEMPERATURE/ ALPHA PHASE IRON
- 67-MO-01 MOORE, W.E./ KIROUAC, G.J./ EASCH, L.J./ SEEMANN, K.W./ YEATER, M.L.
EPITHERMAL NEUTRON INELASTIC SCATTERING BY POLYETHYLENE
RPI-328-108 (1967)
POLYETHYLENE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS ..300DK
- 67-MO-02 MORLEY, G.L.
LATTICE DYNAMICS OF SOLID HELIUM
IS-T-206 (1967)
HE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..HCP PHASE/ ODK/ DEBYE TEMPERATURE
- 67-MY-01 MYERS, V.W.
INELASTIC SCATTERING OF COLD NEUTRONS IN POLYCRYSTALLINE

- E GRAY TIN
 J. PHYS. CHEM. SOLIDS, V.28, P.2207 (1967)
 SN ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..COLD NEUTRON FACILITY/ ODC/ GRAY TIN
- 67-NA-01 NAKAHARA, Y./ KATO, O.
 FREDAM-BI, A FORTRAN-IV PROGRAM FOR COMPUTATION OF THE FREQUENCY DISTRIBUTIONS OF BERYLLIUM AND ICE BY ROOT SAMPLING METHOD
 JAERI-1146 (1967)
 BE/ H₂O/ COMPUTER-CODES ..SOLID/ THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
- 67-NA-02 NATKANIEC, I./ PARLINSKI, K./ BAJOREK, A./ SUDNIK-HRYNKIEWICZ, M.
 LOCAL MODES IN LI-MG AND BE-CU ALLOYS
 PHYS. LETT., V.24A, P.517-P.519 (1967)
 MG-LI/ CU-BE ..EXPERIMENT/ LOCAL VIBRATION/ NEUTRON SPECTROSCOPY
- 67-NE-01 NEILL, J.M./ ANTUNEZ, H./ SPEREVAK, D.
 NEUTRON THERMALIZATION IN DIPHENYL
 GA-8050 (1967)
 BIPHENYL ..EXPERIMENT
- 67-NE-02 NEILL, J.M.
 TOTAL CROSS SECTIONS OF REACTOR MODERATOR
 WASH-1079 (1967)
 BENZENE ..SIGMA (E)/ EXPERIMENT
- 67-NE-03 NELKIN, M./ RANGANATHAN, S.
 COLLISIONLESS SOUND IN CLASSICAL FLUIDS
 PHYS. REV., V.164, P.222-P.227 (1967)
 LEAD ..SCATTERING LAW/ QUASI-ELASTIC PEAK/ THEORY ..VLA SOV EQUATION
- 67-NG-01 NG, S.C./ BROCKHOUSE, B.N.
 LATTICE DYNAMICS OF THE ALLOY SYSTEMS BI-PB-TL
 SOLID STATE COMMUN., V.5, P.79 (1967)
 BI-PB-TL ..EXPERIMENT/ PHONON/ ALLOYS
- 67-NG-02 NG, S.C./ BROCKHOUSE, B.N.
 LATTICE DYNAMICS OF THE ALLOY SYSTEMS BI-PB-TL
 SOLID STATE COMMUN., V.5, P.79 (1967)
 BI-PB-TL/ ..PHONON DISPERSION/ ALLOY SYSTEM
- 67-NI-01 NICKLOW, R.M./ GILAT, G./ SMITH, H.G./ RAUBENHEIMER, R. L.J./ WILKINSON, M.K.
 PHONON FREQUENCIES IN COPPER AT 49 AND 298DK
 PHYS. REV., V.164, P.922 (1967)
 CU ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION/ FREQUENCY SPECTRUM ..3-AXIS SPECTROMETER/ 49DK/ 298DK
- 67-NO-01 NOBLE, C./ SOLBRIG-JR, A.W./ MCMURRY, H.L., MACS M, A PROGRAM FOR COMPUTING THE CRYSTAL DYNAMICAL MATRIX, PHONON DISPERSION RELATIONS, AND STRUCTURE FACTORS FOR NEUTRON INELASTIC SCATTERING
 IN-1125 (1967)
 COMPUTER-CODES ..LATTICE DYNAMICS ..COHERENT SINGLE-PHONON SCATTERING OF NEUTRONS
- 67-O1-01 O'CONNOR, D.A.
 THE DYNAMICAL THEORY OF THE INTERACTION OF X-RAYS AND NEUTRONS WITH PHONONS
 PROC. PHYS. SOC., LONDON, V.91, P.917-P.927 (1967)
 NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ DYNAMICAL THEORY
- 67-OK-01 OKA, T.
 VIBRATION-ROTATION INTERACTION IN SYMMETRIC-TOP MOLECULES AND THE SPLITTING BETWEEN A₁, A₂ LEVELS
 J. CHEM. PHYS., V.47, P.5410 (1967)
 N₂H₄ ..MOLECULE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION
- 67-OY-01 OVERTON-JR, W.C./ SCHUCH, A.F.
 SUPPLEMENT TO TABLES FOR THE RAPID EVALUATION OF THE DEBYE TEMPERATURE OF CUBIC CRYSTALS FROM ELASTIC CONSTANT S
 LA-3615-MS (1967)
 THEORY-OF-SOLIDS ..THEORY
- 67-PA-01 PAGE, D.I.,
 SCATTERING LAW S(·) - VALUES FOR GRAPHITE AT 1300DK AND 1800DK
 AERE-R-5574 (1967)
 GRAPHITE ..SCATTERING FUNCTION/ EXPERIMENT ..HIGH TEMPERATURE
- 67-PA-02 PAGE, D.I.
 THE PHONON FREQUENCY DISTRIBUTION OF VANADIUM
 PROC. PHYS. SOC., LONDON, V.91, P.76-P.85 (1967)
 V ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY SPECTRUM
- 67-PA-03 PALEVSKY, H.
 LOOKING AT MATTER WITH PARTICLES
 BNL-50059 (T-462) (1967)
 REVIEW-ARTICLES ..EXPLANATION ON NEUTRON INELASTIC SCATTERING
- 67-PA-04 PAN, S.S./ YEATER, M.L./ MOORE, W.E.,
 RECENT LOW ENERGY INELASTIC SCATTERING RESULTS FOR METAL HYDRIDES AND URANIUM CARBIDE
 RPI-328-101 (1967)

- ZR-H/ NB-H/ TI-H/ U.C ..EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
- 67-PA-05 PATHAK, K.N./ DEO, B.
EFFECT OF LATTICE ANHARMONICITY ON THE DEBYE-WALLER FACTOR
PHYSICA, V.35, P.167 (1967)
THEORY-OF-SOLIDS ..SOLID/ LATTICE DYNAMICS ..ANHARMONIC EFFECT
- 67-PA-06 PAWLEY, G.S.
A MODEL FOR THE LATTICE DYNAMICS OF NAPHTHALENE AND ANTHRACENE
PHYS. STATUS SOLIDI, V.20, P.347-P.360 (1967)
NAPHTHALENE/ ANTHRACENE ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMP./ DEBYE-WALLER FACTOR
- 67-PA-07 PAWLEY, G.S.
A MODEL FOR THE LATTICE DYNAMICS OF NAPHTHALENE AND ANTHRACENE
PHYS. STATUS SOLIDI, V.20, P.347-P.360 (1967)
NAPHTHALENE/ ANTHRACENE ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ 6-EXP FORCE
- 67-PE-01 PECKHAM, G.
THE PHONON DISPERSION RELATION FOR MAGNESIUM OXIDE
PROC. PHYS. SOC., LONDON, V.90, P.657 (1967)
MG.O ..LATTICE DYNAMICS/ EXPERIMENT/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..ROOM TEMPERATURE
- 67-PE-02 PECKHAM, G.
THE PHONON DISPERSION RELATION FOR DIAMOND
SOLID STATE COMMUN., V.5, P.311 (1967)
DIAMOND ..PHONON DISPERSION RELATION
- 67-PL-01 PLUMMER, J.P.
MULTIPLE SCATTERING OF THERMAL NEUTRONS
IN-1045 (1967)
SCATTERING-THEORIES ..SCATTERING THEORY
- 67-PL-02 PLUMMER, J.R./ SUMMERFIELD, G.C./ ZWEIFEL, P.F.
QUANTUM STATISTICS AND SLOW NEUTRON SCATTERING BY GASES
J. CHEM. PHYS., V.47, P.4923 (1967)
HE ..THEORY/ DISTRIBUTION FUNCTION/ GAS ..DIFFERENTIAL SCATTERING CROSS SECTION/ 5-6DK
- 67-PR-01 PRICE, D.L.
LATTICE DYNAMICS OF WHITE TIN
PROC. ROY. SOC., LONDON, SER. A, V.300, P.25-P.44 (1967)
SN ..SOLID/ EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CONDUCTION ELECTRON
- 67-RA-01 RAHMAN, A.
COLLECTIVE COORDINATES IN CLASSICAL SYSTEMS
PHYS. REV. LETT., V.19, P.420-P.421 (1967)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY
- 67-RA-02 RAMASESHEN, S./ VISWANATHAN, K.S.
ANOMALOUS NEUTRON SCATTERING BY CRYSTALS AND THE AMPLITUDES OF LATTICE WAVES
ACTA CRYSTALLOGR., SECT. A, V.26, P.364 (1967)
SCATTERING-THEORIES ..ANOMALOUS SCATTERING/ POLARIZATION ON VECTOR/ ONE-PHONON SCATTERING
- 67-RA-03 RANDOLPH, P.D.
SEARCH FOR THE KOHN EFFECT IN LIQUID LEAD
IN-1094 (1967)
PB ..EXPERIMENT/ LIQUID/ DISPERSION RELATION
- 67-RA-04 RANDOLPH, P.D./ MYERS, W.R.
TRANSVERSE COLLECTIVE ATOMIC VIBRATIONS IN LIQUID LEAD
IN-1115, P.1-P.10 (1967)
PB ..EXPERIMENT/ LIQUID/ DISPERSION RELATION ..350DC/ COLLECTIVE VIBRATIONAL MODE
- 67-RA-05 RANDOLPH, P.D.
SLOW NEUTRON INELASTIC SCATTERING FROM LIQUID SODIUM
PHYS. REV., V.134, P.1238 (1967)
NA ..EXPERIMENT/ LIQUID
- 67-RA-06 RAO, K.R./ DASANNACHARYA, B.A./ VENKATARAMAN, G.
NEUTRON SCATTERING STUDIES IN LIQUID GALLIUM
PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, SOLID STATE PHYSICS, DAE, BOMBAY, P.217-P.220 (1967)
GA ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
- 67-RA-07 RAPEANU, S./ ILESCU, N.
QUASI ELASTIC SCATTERING OF SLOW NEUTRON IN PENTANOL
PHYS. LETT., V.26A, P.72 (1967)
PENTANOL ..EXPERIMENT/ MOLECULAR DYNAMICS ..ROOM TEMP./ 3-AXIS SPECTROMETER
- 67-RA-08 RAO, K.R./ VENKATARAMAN, G./ DASANNACHARYA, B.A.
COLD NEUTRON SCATTERING BY LIQUID METHANE
CAN. J. PHYS., V.45, P.3185-P.3187 (1967)
C.H4 ..THEORY/ LIQUID ..COMPARED WITH EXPERIMENT
- 67-RI-01 RIEDER, K.H./ HOERL, E.M.
SEARCH FOR SURFACE MODES OF LATTICE VIBRATIONS IN MAGNESIUM OXIDE
SGAE-M-12/1967 (1967)
MG.O ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS ..SURFACE VIBRATIONS

- BRATION
- 67-RO-01 ROWE, J.M.
CRYSTAL DYNAMICS OF METALLIC BETA-SN AT 110DK
PHYS. REV., V.163, P.547-P.551 (1967)
SN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
..110DK
- 67-RO-02 ROY, A.P./ THAPER, C.L./ IYENGER, P.K.
LATTICE VIBRATION OF VANADIUM BY INELASTIC SCATTERING O
F SLOW NEUTRONS
PHYSICA, V.34, P.384 (1967)
V ..LATTICE DYNAMICS/ EXPERIMENT
- 67-RO-03 ROY, A.P./ VENKATARAMAN, G.
LATTICE DYNAMICS OF MAGNESIUM USING A PSEUDOPOTENTIAL A
PPROACH
PHYS. REV., V.156, P.769-P.776 (1967)
MG ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL
- 67-RU-01 RUSH, J.J.
NEUTRON-SCATTERING STUDY OF HINDERED ROTATIONS IN METHY
LBENZENE
J. CHEM. PHYS., V.47, P.3936 (1967)
BENZENE ..MOLECULAR DYNAMICS/ LIQUID/ SOLID/ EXPERIMENT
/ NEUTRON SPECTRUM/ FREQUENCY SPECTRUM ..BE-FILTER METH
OD/ 296DK-TDK
- 67-RU-02 RUSH, J.J.
COLD-NEUTRON STUDY OF HINDERED ROTATIONS IN SOLID AND L
IQUID METHYLCHLOROFORM, NEOPENTANE, AND ETHANE
J. CHEM. PHYS., V.46, P.2285 (1967)
METHYLCHLOROFORM/ PENTANE/ ETHANE ..COLD-NEUTRON/ FREQU
ENCY SPECTRUM
- 67-RU-03 RUSH, J.J.
NEUTRON-SCATTERING STUDY OF LOW FREQUENCY MODES IN UREA
AND FERRO-ELECTRIC THIOUREA
J. CHEM. PHYS., V.47, P.4278 (1967)
UREA ..INELASTIC SCATTERING SPECTRA
- 67-SA-01 SAFFORD, G.J./ NAUMANN, A.W.
LOW FREQUENCY MOTIONS IN POLYMERS AS MEASURED BY NEUTRO
N INELASTIC SCATTERING
ADVAN. POLYMER SCI., V.5, P.1-P.27 (1967)
REVIEW-ARTICLES ..EXPERIMENTAL REVIEW/ POLYMER/ TOF SPE
CTRUM/ FREQUENCY SPECTRUM
- 67-SA-02 SAMOSVAT, G.S./ SAYASON, Y.S./ CHUBURKOV, V.T.
SCATTERING OF THE EV-NEUTRONS BY WATER MOLECULES (IN RU
SSIAN)
JINR P3-3413 (1967)
- H2.O ..EXPERIMENT
- 67-SC-01 SCHAUFELLE, R.F./ SHIMANOUCI, T.
LONGITUDINAL ACOUSTICAL VIBRATIONS OF FINITE POLYMETHYL
ENE CHAINS
J. CHEM. PHYS., V.47, P.3605 (1967)
POLYETHYLENE ..LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ THE
ORY/ ..OPTICAL EXPERIMENT
- 67-SC-02 SCHCROFT, N.W./ MARCH, N.H.
STRUCTURE FACTOR AND DIRECT CORRELATION FUNCTION FOR A
CLASSICAL HARD SPHERE FLUID
PROC. ROY. SOC., LONDON, SER. A, V.297, P.336-P.35
0 (1967)
THEORY-OF-FLUIDS/ AR ..THEORY
- 67-SC-03 SCHNEIDER, T./ STOLL, E./ SZABO, N.
COLLECTIVE EXCITATION IN LIQUID METALS
HELV. PHYS. ACTA, V.40, P.817-P.819 (1967)
THEORY-OF-FLUIDS ..COLLECTIVE EXCITATION/ LIQUID METAL/
DISPERSION CURVE
- 67-SE-01 SEARS, V.F.
COLD NEUTRON SCATTERING BY MOLECULAR LIQUIDS. 3 METHANE
CAN, J. PHYS., V.45, P.237-P.254 (1967)
METHANE ..THEORY/ LIQUID ..COMPARED WITH EXPERIMENT
- 67-SH-01 SHIRANE, G./ NATHANS, R./ MINKIEWICZ, V.J.
TEMPERATURE DEPENDENCE OF THE SOFT FERROELECTRIC MODE I
N K.TA.03
PHYS. REV., V.157, P.396-P.399 (1967)
K.TA.03 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE/ LATT
ICE DYNAMICS
- 67-SH-02 SHIRANE, G./ FRAZER, B.C./ MINKIEWICZ, V.J./ LEAKE
J.A./ LINZ, A.
SOFT OPTIC MODES IN BARIUM TITANATE
PHYS. REV. LETT., V.19, P.234 (1967)
BA.TI.03 ..EXPERIMENT/ LATTICE DYNAMICS
- 67-SH-03 SHUKLA, M.M./ DAYAL, B.
THE LATTICE VIBRATIONS OF NICKEL IN KREBS'S MODEL
PHYS. STATUS SOLIDI, V.19, P.729-P.733 (1967)
NI ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ KRE
BS MODEL
- 67-SI-01 SINGH, S.P.
LATTICE DYNAMICS OF NICKEL
CAN. J. PHYS., V.45, P.1655 (1967)
NI ..LATTICE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION .
DEBYE TEMPERATURE/ ODK-300DK

- 67-SI-02 SINGWI, K.S./ TOSI, M.P.
ON THE VELOCITY AUTOCORRELATION IN CLASSICAL FLUID
PHYS. REV., V.157, P.153-P.155 (1967)
THEORY-OF-FLUIDS/ ARGON ..THEORY/ LIQUID ..VELOCITY AUT
O-CORRELATION
- 67-SK-01 SKOELD, K./ KARLEN, L./ SCIESINSKI, J.
A SPECIMEN CONTAINER FOR INELASTIC NEUTRON SCATTERING S
TUDIES OF LIQUIDS AT HIGH PRESSURES
NUCL. INSTRUM. METHODS, V.56, P.305 (1967)
PENTANE/ H2.O ..MOLECULAR DYNAMICS/ SOLID/ EXPERIMENT/
FREQUENCY SPECTRUM
- 67-SK-02 SKOELD, K./ LARSSON, K.E.
ATOMIC MOTION IN LIQUID ARGON
PHYS. REV., V.161, P.102 (1967)
AR ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION/ DISPERSIO
N RELATION ..94DK
- 67-SK-03 SKOELD, K./ NELIN, G.
DIFFUSION OF HYDROGEN IN THE ALPHA-PHASE OF PD-H STUDIE
D BY SMALL ENERGY TRANSFER NEUTRON SCATTERING
J. PHYS. CHEM. SOLIDS, V.28, P.2369 (1967)
PD-H ..HYDROGEN DIFFUSION
- 67-SK-04 SKOELD, K.
SMALL ENERGY TRANSFER SCATTERING OF COLD NEUTRONS FROM
LIQUID ARGON
PHYS. REV. LETT., V.19, P.1023-P.1025 (1967)
AR ..LIQUID/ THEORY/ SCATTERING FUNCTION ..QUASIELASTIC
SCATTERING
- 67-SL-01 SLAGGIE, E.L.
MULTIPLE SCATTERING IN SLOW NEUTRON DOUBLE DIFFERENTIAL
MEASUREMENTS
NUCL. SCI. ENG., V.30, P.199 (1967)
SCATTERING-THEORIES ..THEORY
- 67-SL-02 SLAGGIE, E.L.
MULTIPLE SCATTERING IN NEUTRON DOUBLE DIFFERENTIAL CROS
S SECTION MEASUREMENTS
GA-8052 (1967)
SCATTERING-THEORIES ..THEORY ..MULTIPLE SCATTERING CORR
ECTION
- 67-SM-01 SMITH, D.B.
LATTICE DYNAMICS OF BISMUTH
LA-3773 (1967)
BI ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION
..CONST.-@ METHOD/ 75DK
- 67-SM-02 SMITH, R.B.
- SOME MEASUREMENTS OF THE NEUTRON SCATTERING LAW FOR LIG
HT WATER AT 95DC
BNWL-345 (1967)
H2.O ..EXPERIMENT/ SCATTERING FUNCTION ..95DC/ TRIPLE A
XIS SPECTROMETER
- 67-SO-01 SOLT, G.
SLOW NEUTRON SCATTERING BY SOLID METHANE
PHYSICA, V.37, P.253 (1967)
METHANE ..MOLECULAR DYNAMICS/ SCATTERING FUNCTION/ SOLI
D
- 67-ST-01 STARTSEV, V.I./ BRAUD, I.S.
DETERMINATION OF THE DISPERSION OF ELASTIC VIBRATIONS I
N THE POTASSIUM CHLORIDE CRYSTAL LATTICE USING X-RAY DI
FFUSE SCATTERING
DOKL. AKAD. NAUK SSSR (SOV. PHYS.-DOKLADY), V.172
(V.12), P.1053-P.1056 (P.138-P.140) (1967 (1967))
K.CL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATIO
N ..X-RAY EXPERIMENT
- 67-ST-02 STECKI, J.
FREQUENCY-DEPENDENT DIRECT CORRELATION FUNCTION
DISCUSS. FARADAY SOC., V.43, P.212 (1967)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERI
NG FUNCTION ..G(R,T)
- 67-ST-03 STEDMAN, R./ ALMØVIST, L./ NILSSON, G.
PHONON-FREQUENCY DISTRIBUTIONS AND HEAT CAPACITIES OF A
LUMINUM AND LEAD
PHYS. REV., V.162, P.549-P.557 (1967)
AL/ PB ..LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..800
DK FOR AL/ 500DK FOR PB
- 67-ST-04 STEDMAN, R./ ALMØVIST, L./ NILSSON, G./ RAUNIO, G.
DISPERSION RELATIONS FOR PHONON IN LEAD AT 80 AND 300DK
PHYS. REV., V.162, P.545-P.548 (1967)
PB ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION
..80DK/ 300DK
- 67-ST-05 STOCKMEYER, R./ STILLER, H.H.
LATTICE DYNAMICS OF SOLID ADAMANTANE
PHYS. STATUS SOLIDI, V.19, P.781 (1967)
ADAMANTANE ..EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DY
NAMICS/ SOLID/ FREQUENCY DISTRIBUTION ..133DK/ 198DK/ 2
93DK
- 67-ST-06 STRONG, K.A./ BRUGGER, R.M.
MEASUREMENTS OF THE FREQUENCY OF TORSIONAL VIBRATION IN
THE ETHANE MOLECULE
J. CHEM. PHYS., V.42, P.421-P.429 (1967)
ETHANE ..MOLECULAR DYNAMICS/ GAS/ EXPERIMENT/ FREQUENCY

- DISTRIBUTION .. ROOM TEMPERATURE
- 67-SU-01 SUMMERFIELD, G.C./ ZWEIFEL, P.F.
APPLICATION OF THE QUASICLASSICAL METHOD TO INCOHERENT
NEUTRON SCATTERING BY MOLECULES
PHYS. REV., V.159, P.1 (1967)
SCATTERING-THEORIES .. SCATTERING THEORY/ GAS
- 67-SV-01 SVENSSON, E.C./ BROCKHOUSE, B.N.
IN-BAND MODES OF VIBRATION OF A COPPER-3AT-PERCENT GOLD
ALLOY
PHYS. REV. LETT., V.18, P.858 (1967)
CU-AU .. LATTICE DYNAMICS/ EXPERIMENT .. CONSTANT-0 METHO
DS/ ROOM TEMP.
- 67-SV-02 SVENSSON, E.C./ BROCKHOUSE, B.N./ ROWE, J.M.
CRYSTAL DYNAMICS OF COPPER
PHYS. REV., V.155, P.619-P.632 (1967)
CU .. EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRUM/
FORCE ANALYSIS
- 67-SZ-01 SZKATULA, A./ FULINSKI, A.
DYNAMICAL AND THERMODYNAMICAL STRUCTURE OF WATER FROM T
HE SCATTERING OF COLD NEUTRONS
PHYSICA, V.36, P.35 (1967)
H2.O .. THEORY/ LIQUID/ FREQUENCY DISTRIBUTION
- 67-TA-01 TASUMI, M./ KRIMM, S.
CRYSTAL VIBRATION OF POLYETHYLENE
J. CHEM. PHYS., V.46, P.755 (1967)
POLYETHYLENE .. MOLECULAR DYNAMICS/ THEORY/ DISPERSION R
ELATION/ FREQUENCY DISTRIBUTION
- 67-TA-02 TASUMI, M./ ZERBI, G.
FREQUENCY DISTRIBUTIONS OF RANDOM POLYMERS
J. POLY. SCI., PART B, V.5, P.985-P.988 (1967)
THEORY-OF-SOLIDS .. FREQUENCY DISTRIBUTION/ RANDOM POLYM
ER
- 67-TA-03 TAYLOR, D.W.
VIBRATIONAL PROPERTIES OF IMPERFECT CRYSTALS WITH LARGE
DEFECT CONCENTRATIONS
PHYS. REV., V.156, P.1017 (1967)
THEORY-OF-SOLIDS .. CRYSTAL VIBRATION/ IMPERFECT CRYSTAL
S WITH DEFECTS
- 67-TH-01 THAPER, C.L./ ROY, A.P./ VENKATARAMAN, G./ IYENGAR
P.K.
NEUTRON INELASTIC SCATTERING STUDIES IN K.H2.P.04
PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE
PHYSICS SYMPOSIUM, SOLID STATE PHYSICS, DAE, BOMB
AY, P.235-P.238 (1967)
- K.H2.P.04 .. EXPERIMENT/ FREQUENCY SPECTRA
- 67-TR-01 TREVINO, S./ BOUTIN, H.
STUDIES OF LOW-FREQUENCY MOLECULAR MOTIONS IN POLYMERS
BY NEUTRON INELASTIC SCATTERING
J. MACROMOL. SCI., PART A, V.1, P.723-P.746 (1967)
POLYETHYLENE/ POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POL
YOXYMETHYLENE .. REVIEW/ TOF SPECTRA/ FREQUENCY SPECTRA
- 67-TU-01 TUCKER, J.E./ REESE, W.
HEAT CAPACITY OF POLYETHYLENE FROM 2.5DK TO 30DK
J. CHEM. PHYS., V.46, P.1388-P.1399 (1967)
POLYETHYLENE .. EXPERIMENT
- 67-VA-01 VAN-DINGENEN, W./ HAUTECLER, S.
DISPERSION RELATIONS FOR PHONONS AND MAGNONS IN ALPHA-F
E
PHYSICA, V.37, P.603 (1967)
FE .. EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
.. ROOM TEMPERATURE/ TOF METHOD
- 67-VE-01 VENKATARAMAN, G./ DASANNACHARYA, B.A./ RAO, K.R.
DYNAMICS OF LIQUID C.D4 FROM COLD-NEUTRON SCATTERING
PHYS. REV., V.161, P.133-P.142 (1967)
METHANE .. LIQUID/ EXPERIMENT/ THEORY .. COHERENT EFFECT
- 67-VE-02 VERBLE, J.L.
LATTICE DYNAMICS OF LITHIUM HYDRIDE
LA-3750 (1967)
LI.H .. LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATIO
N .. CONST.-0/ ROOM TEMP./ LI-D CRYSTAL
- 67-VE-03 VERDAN, G.
STUDIES OF THE DYNAMICAL BEHAVIOUR OF ADSORBED MOLECULE
S BY SLOW NEUTRON SPECTROSCOPY
PHYS. LETT., V.25A, P.435 (1967)
METHANE/ ACETYLENE/ ETHYLENE .. EXPERIMENT/ ADSORBED MOL
ECULES
- 67-VE-04 VERDAN, G.
STUDIES OF THE DYNAMICAL BEHAVIOUR OF ADSORBED MOLECULE
S BY SLOW NEUTRON SPECTROSCOPY
PHYS. LETT., A, V.25, P.435 (1967)
H2-CHARCOAL/ C.H4-CHARCOAL/ C2.H4-CHARCOAL/ C2.H2-CHARC
OAL .. EXPERIMENT/ FREQUENCY SPECTRA/ ADSORBED MOLECULES
- 67-VE-05 VERMA, M.P./ DAYAL, B.
LATTICE DYNAMICS OF MG.O
PHYS. STATUS SOLIDI, V.19, P.751-P.756 (1967)
MG.O .. THEORY/ PHONON DISPERSION/ COMBINED DENSITY-OF-S
TATES

- 67-VI-01 VISSER, J.D./ VAN-DER-WALT, R.,
VLOED, A FORTRAN IV DATA REDUCTION AND FLUX CALCULATION
PROGRAM WRITTEN FOR USE ON THE IBM-360 DIGITAL COMPUTE
R
PEL-148 (1967)
COMPUTER-CODES
- 67-WA-01 WAGNER, M.
DISPERSION DYNAMICS OF CRYSTAL LATTICES
Z. PHYS., V.206, P.131-P.149 (1967)
THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS
- 67-WA-02 WARREN, J.L./ YARNELL, J.L./ DOLLING, G./ COWLEY,
R.A.
LATTICE DYNAMICS OF DIAMOND
PHYS. REV., V.158, P.805 (1967)
DIAMOND ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELA
TION
- 67-WE-01 WEBB, F.J.
THE INELASTIC SCATTERING OF COLD NEUTRONS BY METHANE AN
D AMMONIA
PROC. PHYS. SOC., LONDON, V.92, P.912 (1967)
METHANE/ AMMONIA ..GAS/ EXPERIMENT/ NEUTRON SPECTRUM ..
20DK
- 67-WH-01 WHITTEMORE, W.L.
DIFFERENTIAL NEUTRON THERMALIZATION
GA-7439.(TID-4500) (1967)
D2,O/ H/ GRAPHITE ..CROSS SECTION EVALUATION/ LIQUID/ S
OLID/ EXPERIMENT/ SCATTERING FUNCTION ..ELECTRON LINAC
CHOPPER/ TOF
- 67-WJ-01 WIGNALL, G.D.
MULTIPLE ELASTIC SCATTERING OF THERMAL NEUTRONS BY POLY
CRYSTALLINE LEAD
AERE-M-1911 (1967)
SCATTERING-THEORIES ..CROSS SECTION EVALUATION/ EXPERIM
ENT
- 67-YU-01 YUEN, P.S./ VARHNI, Y.P.
ANGULAR FORCES IN THE LATTICE DYNAMICS OF FACE-CENTERED
CUBIC METALS
PHYS. REV., V.164, P.895 (1967)
CU ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION/ FRE
QUENCY SPECTRUM ..FCC CUBIC METAL
- 68-AG-01 AGRAWAL, A.K./ YIP, S.
ROTATIONAL CORRELATION FUNCTIONS IN NEUTRON SCATTERING
BY MOLECULAR GASES
PHYS. REV., V.171, P.263-P.271 (1968)
- C.H4/ H.CL/ N.H3 ..GAS/ THEORY/ CORRELATION FUNCTION ..
INCOHERENT/ INTERMEDIATE SCATTERING FUNCTION
- 68-AG-02 AGRAWAL, A.K./ DESAI, R.C./ YIP, S.
ANALYSIS OF NEUTRON SCATTERING EXPERIMENTS ON LIQUIDS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.545-P.5
59 (1968)
NEUTRON-SCATTERING-IN-FLUIDS/ AR/ NA/ PB/ METHANE ..THE
ORY ..MODEL CALCULATION
- 68-AG-03 AGRAWAL, A.K./ YIP, S./ GORDON, R.G.
NEUTRON SCATTERING BY LIQUID H.CL
CHEM. PHYS. LETT., V.2, P.584-P.586 (1968)
H.CL ..THEORY/ ROTATIONAL TIME CORRELATION FUNCTION
- 68-AL-01 ALMØVIST, L./ RAUNIO, G./ STEDMAN, R.
PHONON DISPERSION RELATIONS IN NA.CL AT 800K
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.295-P.2
99 (1968)
NA.CL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATI
ON ..800K
- 68-AL-02 ALS-NIELSEN, J.
LOCALIZED AND BAND PHONONS IN TA88-NB12 STUDIED BY COHE
RENT INELASTIC NEUTRON SCATTERING
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.35-P.41
(1968)
TA-NB ..EXPERIMENT/ LATTICE DYNAMICS ..CRYSTAL SPECTROM
ETER/ LOCALIZED PHONON
- 68-AN-01 ANDRIESSE, C.D.
ON THE CONVOLUTION APPROXIMATION IN THE THEORY OF COHER
ENT NEUTRON SCATTERING FROM LIQUIDS
PHYS. LETT., V.27A, P.93 (1968)
AR ..THEORY/ LIQUID/ SCATTERING THEORY ..84DK
- 68-AN-02 ANDRUS, W.S./ MÜETTER, H.R./ PALEVSKY, H.
TEMPERATURE DEPENDENCE OF QUASI-ELASTIC SCATTERING OF C
OLD NEUTRONS FROM LIQUID ARGON
BNL-12372 (1968)
AR ..LIQUID/ EXPERIMENT
- 68-AN-03 ANDRUS, W.S./ MÜETTER, H.R./ PALEVSKY, H.
INELASTIC SCATTERING OF COLD NEUTRONS FROM LIQUID ARGON
AT ELEVATED TEMPERATURES
PHYS. LETT., V.26A, P.152 (1968)
AR ..SCATTERING LAW/ EXPERIMENT/ LIQUID ..BE FILTER MET
HOD/ 87DK/ 97DK/ 111DK/ 124DK/ 22ATM
- 68-AN-04 ANDRUS, W.S./ MÜETTER, H.R./ PALEVSKY, H.
TEMPERATURE DEPENDENCE OF QUASI-ELASTIC SCATTERING OF C
OLD NEUTRONS FROM LIQUID ARGON

- NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.457-P.462 (1968)
 AR ..EXPERIMENT/ TOF/ QUASI-ELASTIC
- 68-AN-05 ANDRUS, W.S./ MUEHER, H.R./ PALEVSKY, H.
 INELASTIC SCATTERING OF COLD NEUTRONS FROM LIQUID ARGON AT ELEVATED TEMPERATURES
 PHYS. LETT., A, V.26, P.152-P.153 (1968)
 AR ..LIQUID/ EXPERIMENT ..QUASI-ELASTIC PEAK/ TEMPERATURE DEPENDENCE/ 87.97,111,124 DEG.KELVIN/ WIDTH VS. MOMENTUM TRANSFER
- 68-AR-01 ARDENTE, V./ NARDELL, G.F./ REATTO, L.
 SCATTERING OF SLOW NEUTRONS AND MOLECULAR DYNAMICS IN LIQUID STATE (IN ITALIAN)
 EUR-4037-1 (1968)
 AR/ NA ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION
- 68-AR-02 ARDENTE, V./ CUNIBERTI, R./ KIND, A./ ROSSI, G.
 MOLECULAR MODEL FOR POLYPHENYLS AND ITS USE IN CALCULATING REACTOR PARAMETERS
 NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.467 (1968)
- 8IPHENYL/ BENZENE ..CROSS SECTION EVALUATION/ MOLECULAR DYNAMICS/ GAS/ THEORY
- 68-AR-03 ARDENTE, V./ GALLS, G.
 HINDERED-ROTATIONS EFFECT ON NEUTRON THERMALIZATION IN LIGHT WATER
 NUKLEONIK, V.11, P.251 (1968)
 H2.O ..SIGMA (E)/ NEUTRON SPECTRUM/ THEORY ..MODIFIED NEUTRON ELKIN MODEL
- 68-BA-01 BAJOREK, A./ NATKANIEC, I./ PARLINSKI, K./ HRYNKIEWICZ, M.S./ JANIK, J.A.//
 MOLECULAR DYNAMICS IN GASEOUS AND SOLID METHANE STUDIED BY THE INELASTIC NEUTRON SCATTERING METHOD
 INP-608/PS (1968)
 C.H4 ..EXPERIMENT/ GAS/ SOLID/ MOLECULAR DYNAMICS ..TOF METHOD/ IBR PULSED REACTOR, DUBNA/ 120DK/ 80DK
- 68-BA-02 BAJOREK, A./ JANIK, J.A./ JANIK, J.M./ NATKANIEC, I./ PARLINSKI, K.//
 INVESTIGATION OF THE DYNAMICS OF WATER MOLECULES IN CRYSTALLO-HYDRATES BY NEUTRON INELASTIC SCATTERING
 NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.143-P.158 (1968)
 H2.O ..EXPERIMENT/ MOLECULAR DYNAMICS ..WATER IN CRYSTALL
- 68-BA-03 BANK, M.I./ KRIMM, S.
- LATTICE-FREQUENCY STUDIES OF CRYSTALLINE AND FOLD STRUCTURE IN POLYETHYLENE
 J. CHEM. PHYS., V.39, P.4951 (1968)
 POLYETHYLENE/ PARAFFINE ..FREQUENCY DISTRIBUTION/ SOLID / EXPERIMENT ..INFRARED ABSORPTION SPECTRUM/ 30DC/ -168 DC
- 68-BA-04 BATA, L./ KROO, N.
 INVESTIGATION OF THE DYNAMICAL PROPERTIES OF LIQUID-GAS SYSTEMS BY COHERENT COLD NEUTRON SCATTERING NEAR THE CRITICAL POINT
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.615-P.622 (1968)
 C.O2/ C.S2 ..EXPERIMENT ..CRITICAL SCATTERING
- 68-BE-01 BENEDEK, G./ NARDELLI, G.F.
 LATTICE DYNAMICS OF IMPERFECT ALKALI HALIDES
 J. CHEM. PHYS., V.48, P.5242 (1968)
 NA.CL/ K.CL ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS
- 68-BE-02 BEYSTER, J.R.
 NEUTRON SCATTERING FROM LIGHT WATER
 NUCL. SCI. ENG., V.31, P.254 (1968)
 H2.O ..LIQUID/ EXPERIMENT
- 68-BE-03 BEYSTER, J.R./ BORGONOV, G.M./ BROUWER, W./ CARRIVEAU, G.W./ GOZANI, T.//
 INTEGRAL NEUTRON THERMALIZATION
 GA-8449 (1968)
 BIPHENYL/ ZR-H/ U.O2 ..LATTICE DYNAMICS/ SCATTERING FUNCTION
- 68-BE-04 BEYSTER, J.R./ BORGONOV, G.M./ CARRIVEAU, G.W.
 ANGULAR SCATTERING BY C.H2, ZR-H,85 AND C6.H6
 NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.493 (1968)
 C.H2/ ZR-H/ C6.H6 ..EXPERIMENT/ MOLECULAR DYNAMICS
- 68-BI-01 BISCHOFF, F./ MOORE, W.E./ YEATER, M.L.
 MONTE CARLO MULTIPLE SCATTERING CODE DEVELOPMENT
 WASH-1124, P.163 (1968)
 COMPUTER-CODES ..THEORY/ SLAB SAMPLE/ TUBLER SAMPLE
- 68-BO-01 BORGONOV, G.
 LATTICE DYNAMICS AND NEUTRON SCATTERING OF BE.O
 GA-8758 (1968)
 BE.O ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..RIGID ION MODEL/ SHELL MODEL
- 68-BO-02 BORGONOV, G./ CARRIVEAU, G.W.

- TOTAL CROSS SECTIONS OF U.C2
GA-8782 (1968)
U.C ..SOLID/ SIGMA (E) ..ROOM TEMPERATURE
- 68-BO-03 BORGONOV, G.M./ CARRIVEAU, G.W.
NEUTRON SCATTERING FROM MG.O
PHYS. REV., V.174, P.953-P.958 (1968)
MG.O ..EXPERIMENT/ ANGULAR DISTRIBUTION/ SHELL MODEL CA
LCULATION
- 68-BO-04 BOUTIN, H./ YIP, S.
MOLECULAR SPECTROSCOPY WITH NEUTRONS
THE MIT PRESS, CAMBRIDGE, MASSACHUSETTS, AND LONDO
N, ENGLAND (1968)
NEUTRON-SCATTERING-IN-SOLIDS/ NEUTRON-SCATTERING-IN-FLU
IDS ..BOOK/ MOLECULAR DYNAMICS/ NEUTRON SCATTERING
- 68-BO-05 BOUTIN, H./ PRASK, H.
APPLICATION OF SLOW NEUTRON SCATTERING TO STUDIES IN CO
LLOID AND SURFACE CHEMISTRY
ADVAN. COLLOID INTERFACE SCI., V.2, P.1-P.38 (1968)
REVIEW-ARTICLES ..WATER ADSORBED/ WATER IN BIOLOGICAL S
YSTEMS
- 68-BO-06 BOWMAN, J.C./ KRUMHANS, J.A.
THE LOW-TEMPERATURE SPECIFIC HEAT OF GRAPHITE
J. PHYS. CHEM. SOLIDS, V.6, P.367-P.379 (1968)
GRAPHITE ..THEORY/ LATTICE DYNAMICS
- 68-BO-07 BOYTER, J.K./ SOLBRIG-JR, A.W.
MACS J. A PROGRAM FOR COMPUTING CRYSTAL PHONON DISPERSI
ON RELATIONS, STRUCTURE FACTORS FOR NEUTRON INELASTIC S
CATTERING AND JACOBIAN MATRICES
IN-1147 (1968)
COMPUTER-CODES ..LATTICE DYNAMICS/ DISPERSION RELATION
..STRUCTURE FACTOR FOR COHERENT SINGLE PHONON SCATTERIN
G OF NEUTRONS/ FORTRAN IV PROGRAM
- 68-BR-01 BROVMAN, E.G./ KAGAN, Y./ KHOLAS, A.
THEORY OF VIBRATIONAL SPECTRUM IN HEXAGONAL METALS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.165-P.1
79 (1968)
BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS
- 68-BR-02 BROWN, R.C./ MARCH, N.H.
ATOMIC TRANSPORT AND ISOTOPIC MASS EFFECTS IN CLASSICAL
LIQUIDS
J. PHYS. CHEM. LIQUIDS, V.1, P.141-P.158 (1968)
THEORY-OF-FLUIDS ..CORRELATION FUNCTION/ FREQUENCY SPEC
TRA/ MASS EFFECT/ ALLOYS
- 68-BR-03 BRUGGER, R.M.
SLOW NEUTRON SCATTERING FROM WATER
NUCL. SCI, ENG., V.33, P.187 (1968)
H2.O ..SCATTERING FUNCTION/ EXPERIMENT/ LIQUID ..TOF/ 1
6DC
- 68-BR-04 BRUGGER, R.M./ PLUMMER, J.P.
SLOW NEUTRON SCATTERING FROM WATER
IN-1141 (1968)
H2.O ..EXPERIMENT/ SCATTERING FUNCTION
- 68-BR-05 BRUN, T.O./ SINHA, S.K./ SWENSON, C.A./ TILFORD, C
R.
LATTICE DYNAMICS OF HCP HE4 BY INELASTIC NEUTRON SCATTE
RING
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.339-P.3
42 (1968)
HE ..EXPERIMENT/ DISPERSION RELATION ..4.2DK
- 68-BU-01 BUHRER, W./ SCHNEIDER, T./ STOLL, E.
PHONON DISPERSION IN COPPER
HELV. PHYS. ACTA, V.41, P.399 (1968)
CU ..PHONON DISPERSION
- 68-BU-02 BULAVIN, L.A./ VORONEL, A.V./ OSTANEVICH, Y.M./ SI
MKINA, A.P./ STRELKOV, A.V.
SELF-DIFFUSION COEFFICIENT OF ETHANE NEAR THE LIQUID-GA
S TRANSITION POINT
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.525-P.5
33 (1968)
ETHANE ..EXPERIMENT/ QUASI-ELASTIC/ LIQUID/ GAS
- 68-BU-03 BURGMAN, J.O./ SCIESINSKI, J./ SKOELD, K.
PROTON DYNAMICS IN WATER AND ICE STUDIED BY INELASTIC S
CATTERING OF SLOW NEUTRONS
PHYS. REV., V.170, P.808 (1968)
H2.O ..SOLID/ LIQUID/ EXPERIMENT/ FREQUENCY DISTRIBUTIO
N ..COLD NEUTRON TOF/ 273.4DK/ 268.7DK
- 68-BU-04 BUYERS, W.J.L./ COWLEY, R.A.
NORMAL MODES OF VIBRATION OF MIXED K.BR/RB.BR CRYSTALS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.43-P.46
(1968)
K.BR/ RB.BR ..EXPERIMENT/ LATTICE DYNAMICS ..MIXED CRYST
AL
- 68-BU-05 BUYERS, W.J.L./ COWLEY, R.A./ PAUL, G.L./ COCHRAN,
W.
NEUTRON SCATTERING NEAR THE FERROELECTRIC TRANSITION IN
K.D2.P.O4
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.267-P.2
74 (1968)

- K.H2.P.04 ..EXPERIMENT/ QUASI-ELASTIC SCATTERING ..34DC
- 49,6DC
- 68-BU-06 BUYERS, W.J.L./ SMITH, T.
DEBYE-WALLER FACTORS OF ALKALI HALIDES
J. PHYS. CHEM. SOLIDS, V.29, P.1051-P.1057 (1968)
K.CL/ K.BR/ NA.I/ NA.CL/ NA.BR/ NA.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/ 0-900DK
- 68-BU-07 BUZANO, C./ RASETTI, M.
SCATTERING OF SLOW NEUTRON FROM MOLECULES OF THE POINT GROUP C-3V
NUOVO CIM., B, V.57, P.1-P.18 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING BY MOLECULE
- 68-BU-08 BUZANO, C./ DEMICHELIS, F./ RASETTI, M.
ROTATION-VIBRATION INTERACTION IN SCATTERING OF SLOW-NEUTRONS BY SPHERICAL-TOP MOLECULES
PHYS. REV., V.167, P.97 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY/ GAS/FREQUENCY DISTRIBUTION/ ..DIFFERENTIAL CROSS SECTION
- 68-CA-01 CAGLIOTTI, G./ RIZZI, G./ CUBIOTTI, G.
PHONON-PHONON INTERACTIONS IN ZINC
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.373-P.377 (1968)
ZN ..EXPERIMENT/ LATTICE DYNAMICS/ ANHARMONIC CONTRIBUTION
- 68-CA-02 CARPENTER, J.M./ SCHAEFER, R.A.
AMPLITUDE OF THE TOW QUANTUM IN THE SCATTERING LAW FOR MOLECULAR GASES
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.293 (1968)
BR/ C2.F6 ..SCATTERING THEORY
- 68-CA-03 CARPENTER, J.M./ LURIE, N.A.
COHERENT INELASTIC NEUTRON SCATTERING BY MOLECULAR GASES. MEASUREMENTS ON C2.F6 AND ROTATION-VIBRATION COUPLING CALCULATIONS FOR C.D4
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.205-P.222 (1968)
C2.F6/ C.H4 ..EXPERIMENT/ GAS/ SCATTERING FUNCTION
- 68-CA-04 CARVALHO, F.
INELASTIC SCATTERING OF THERMAL NEUTRONS IN GRAPHITE
NUCL. SCI. ENG., V.34, P.224 (1968)
GRAPHITE ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT ..TOF/ 533DK
- 68-CH-01 CHEN, S.H./ DVORAK, V.
- GROUP-THEORETICAL ANALYSIS OF LATTICE VIBRATIONS IN MOLECULAR CRYSTALS
J. CHEM. PHYS., V.48, P.4060 (1968)
HEXAMETHYLENETETRAMINE/ ADAMANTANE/ N.H4.CL ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS/ DISPERSION RELATION
- 68-CH-02 CHEVEAU, L.
MODEL FOR LATTICE DYNAMICS IN METALS
PHYS. REV., V.169, P.496 (1968)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..METAL
- 68-CO-01 COCHRAN, W.
FOURIER TRANSFORMS AND CORRELATION FUNCTIONS
THEORY OF CONDENSED MATTER, IAEA, P.307-P.324 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..LECTURE NOTE/ CORRELATION FUNCTION
- 68-CO-02 COCHRAN, W.
A CORRELATION FUNCTION FOR PHONON EIGENVECTORS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.275-P.280 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ CORRELATION FUNCTION
- 68-CO-03 COCKING, S.J./ EGELSTAFF, P.A.
CO-OPERATIVE MODES OF MOTION IN LIQUID LEAD
J. PHYS., C, LONDON, V.1, P.507 (1968)
PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..15DC ABOVE AND BELOW MELTING POINT/ 350DC
- 68-CO-04 COCKING, S.J.
STUDIES OF THE LIQUID STATE USING THE INELASTIC SCATTERING OF SLOW NEUTRONS
AERE-R-5867 (1968)
NA/ PB ..EXPERIMENT/ LIQUID/ ..LIQUID DYNAMICS
- 68-CO-05 COCKING, S.J.
A QUASI-PHONON TREATMENT OF COHERENT NEUTRON SCATTERING BY LIQUID LEAD
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.463-P.472 (1968)
PB ..THEORY/ LIQUID DYNAMICS
- 68-CO-06 COCKING, S.J./ EGELSTAFF, P.A.
THE TEMPERATURE DEPENDENCE OF CO-OPERATIVE MODES OF MOTION IN LIQUID Pb
J. PHYS., C, LONDON, V.1, P.519 (1968)
PB ..LIQUID DYNAMICS/ TEMPERATURE DEPENDENCE

- 68-CO-07 COHEN, M.H./ MARTIN, R.M./ PICK, R.M.
MICROSCOPIC THEORY OF FORCE CONSTANTS IN SOLIDS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.119-P.1
39 (1968)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..FORCE CONSTANTS
- 68-CO-08 COPLEY, J.R.D./ BROCKHOUSE, B.N./ CHEN, S.H.
LATTICE DYNAMICS OF RUBIDIUM
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.209-P.2
14 (1968)
RB ..EXPERIMENT/ DISPERSION RELATION ..120DK
- 68-CO-09 COWLEY, R.A./ WOODS, A.D.B.
NEUTRON SCATTERING FROM LIQUID HELIUM AT HIGH ENERGIES
PHYS. REV. LETT. V.21, P.787 (1968)
HE ..LIQUID/ EXPERIMENT/ SCATTERING-FUNCTION ..1.1DK/ 4
.2DK
- 68-CO-10 COWLEY, R.A.
NEUTRONS, FREE ELECTRONS AND HIGH MAGNETIC FIELDS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.141-P.1
48 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE DYNAMICS
..MAGNETIC FIELD
- 68-CO-11 COWLEY, R.A./ BUYERS, W.J.L./ SVENSSON, E.C./ PAUL
G.L.
NEUTRON SCATTERING AND ELASTIC CONSTANTS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.281-P.2
88 (1968)
K.BR/ SR.TI.03 ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/
ELASTIC CONSTANT ..NEUTRON MEASUREMENT/ ULTRASONIC MEAS
UREMENT
- 68-CO-12 COWLEY, R.A.
A CALCULATION OF THE NEUTRON SCATTERING BY LIQUIDS AS MEASURED WITH THE COLD NEUTRON TIME-OF-FLIGHT TECHNIQUE
AEC-3189, P.0-P.11 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..TIME-OF-FLIGHT/ COLLECTIVE MODE
- 68-CO-13 COWLEY, R.A./ SVENSSON, E.C./ BUYERS, W.J.L.
NEUTRON SCATTERING AND ELASTIC CONSTANTS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.281 (1968)
K.BR/ SR.TI.03/ K.H2.P.04 ..ELASTIC CONSTANT/ SOUND VELOCITY/ ANHARMONICITY
- 68-CZ-01 CZACHOR, A.
ON THE LATTICE DYNAMICS OF HEXAGONAL STRUCTURE METALS
PHYS. STATUS SOLIDI, V.29, P.423-P.434 (1968)
MG/ ZN/ BE ..THEORY/ PHONON DISPERSION
- 68-DA-01 DAHLBORG, U./ FRIBERG, B./ LARSSON, K.E./ PIIRKMAJE R, E.
NEW RESULTS ON QUASI-ELASTIC SCATTERING FROM SOME HYDROGENOUS LIQUIDS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.581-P.597 (1968)
PENTANE/ PENTANOL ..EXPERIMENT ..QUASI-ELASTIC/ TEMPERATURE EFFECT
- 68-DA-02 DAMLE, P.S./ SJOELANDER, A./ SINGWI, K.S.
ITINERANT-OSCILLATOR MODEL OF LIQUIDS
PHYS. REV. V.165, P.277-P.282 (1968)
THEORY-OF-FLUIDS ..LIQUID/ FREQUENCY SPECTRUM/ THEORY
..ITINERANT-OSCILLATOR-MODEL
- 68-DA-03 DASANNACHARYA, B.A.
MOLECULAR MOTIONS IN LIQUIDS
PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, SOLID STATE PHYSICS, DAE, BOMBAY, P.144-P.160 (1968)
REVIEW-ARTICLES ..MOLECULAR LIQUID/ MOLECULAR MOTION/ NEUTRON SCATTERING
- 68-DA-04 DASANNACHARYA, B.A./ NAVARRO, O.O./ IBARRA, H./ CHATRAPHORN, S./ LEE, G.B.
NEUTRON DIFFRACTION BY LIQUID ZINC
PHYS. REV. V.173, P.241-P.248 (1968)
ZN ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
- 68-DA-05 DAUBERT, J./ JEX, H./ ROSSBERG, D.
THERMAL NEUTRON SCATTERING BY ICE SINGLE CRYSTAL (IN GERMAN)
IKF-22 (1968)
H2.O ..SOLID/ EXPERIMENT/ SIGMA (E)
- 68-DE-01 DE-WETTE, F.W./ RAHMAN, A.
INELASTIC SCATTERING OF NEUTRONS BY POLYCRYSTALS
PHYS. REV. V.176, P.784 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID ..ONE-PHONON/ COHERENT/ POLYCRYSTAL/ INELASTIC SCATTERING CROSS SECTION/ MONATOMIC/ FCC CRYSTAL
- 68-DE-02 DE-WIT, G.A./ BROCKHOUSE, B.N.
THE LATTICE DYNAMICS OF FERROMAGNETIC AND PARAMAGNETIC NICKEL
J. APPL. PHYS. V.39, P.451 (1968)
NI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..400DC/ 300DC/ ROOM TEMP.
- 68-DE-03 DELTOUR, J.
THE COMPUTATION OF LATTICE FREQUENCY DISTRIBUTION FUNCTIONS

- ONS BY MEANS OF CONTINUED FRACTIONS
PHYSICA, V.39, P.413 (1968)
THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ THEORY/ SOLI
D ..CONTINUED FRACTION/ LINEAR CHAIN
- 68-DE-04 DESAI, R.C./ YIP, S.
DYNAMICAL CORRELATIONS IN SIMPLE LIQUIDS AND COLD-NEUTR
ON SCATTERING BY ARGON
PHYS. REV. V.166, P.129 (1968)
AR ..LIQUID/ SCATTERING FUNCTION ..94.4DK
- 68-DO-01 DOLLING, G./ SMITH, H.G./ NICKLOW, R.M./ VIJAYARAG
HAVAN, P.K./ WILKINSON, M.K.
LATTICE DYNAMICS OF LITHIUM FLUORIDE
PHYS. REV. V.168, P.970-P.979 (1968)
L.I.F. ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATIO
N/ FREQUENCY DISTRIBUTION ..3-AXIS CRYSTAL SPECTROMETER
/ 298DK/ HEAT CAPACITY/ DEBYE-WALLER FACTOR
- 68-DU-01 DURIG, J.R./ WALKER, M./ BAGLIN, F.G.
LATTICE VIBRATIONS OF MOLECULAR CRYSTALS 2. CYANAMIDE A
ND CYANAMIDE-D2
J. CHEM. PHYS. V.48, P.4675 (1968)
CYANAMIDE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ MOLECU
AR DYNAMICS/ LATTICE DYNAMICS
- 68-EC-01 ECKSTEIN, S./ VARGA, B.B.
DISPERSION OF PHONONS IN 4HE
PHYS. REV. LETT. V.21, P.1311 (1968)
HE ..THEORY/ LIQUID/ STATISTICAL MECHANICS
- 68-ED-01 EDER, O.J./ EGELSTAFF, P.A.
THE MOLECULAR DYNAMICS OF METHANE IN ARGON
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.223-P.2
35 (1968)
METHANE ..EXPERIMENT/ SOLID/ LIQUID/ THEORY/ MOLECULAR
DYNAMICS ..METHANE IN ARGON
- 68-EG-01 EGGER, H./ GSANGER, M./ LUSCHER, E./ DORNER, B.
PHONON DISPERSION MEASUREMENTS ON AN ARGON SINGLE CRYST
AL AT 4.2 DEG. K.
PHYS. LETT. A, V.28, P.433 (1968)
AR ..EXPERIMENT/ PHONON DISPERSION/ SINGLE CRYSTAL
- 68-EI-01 EISENTHAL, K.B./ DOWLEY, M.W./ PETICOLAS, W.L.
TWO-PHONON SPECTRUM OF A LIQUID
PHYS. REV. LETT. V.20, P.93-P.95 (1968)
CHLORONAPHTHALENE ..EXPERIMENT/ LIQUID ..TWO-PHONON SPE
CTRUM
- 68-EL-01 EL-ELA, M.A./ SALAMA, M./ ABDEL-KAWY, A./ ADIB, M.
/ HAMOUDA, I.
- MEASUREMENT OF THE TOTAL NEUTRON CROSS-SECTION OF ZINC
AND ANTIMONY IN THE ENERGY RANGE 0.002-0.4 EV USING A T
IME-OF-FLIGHT SPECTROMETER
J. NUCL. ENERGY, V.22, P.389 (1968)
SB ..TOTAL CROSS SECTION
- 68-EN-01 ENDERBY, J.E./ NORTH, D.M.
PERCUS-YEVICK STRUCTURE FACTORS FOR LIQUID ALLOYS
J. PHYS. CHEM. LIQUIDS, V.1, P.1-P.11 (1968)
THEORY-OF-FLUIDS/ NA-K ..STRUCTURE FACTOR/ ALLOY LIQUID
/ PERCUS-YEVICK
- 68-ER-01 EREMEEV, I.P./ MOSTOVOI, V.I./ SADIKOV, I.P./ CHEY
SCHOV, A.A.
STUDY OF INELASTIC NEUTRON SCATTERING IN GRAPHITE AT VA
RIOUS TEMPERATURES (IN RUSSIAN)
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.343 (1968)
GRAPHITE ..SCATTERING FUNCTION/ EXPERIMENT ..15DC/ 490D
C/ 1000DC
- 68-ES-01 ESCH, L.J./ MOORE, W.E./ YEATER, M.L.
HIGH TEMPERATURE WATER SCATTERING LAW MEASUREMENT
WASH-1124, P.162 (1968)
H2.O ..LIQUID/ EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCAT
TERING FUNCTION
- 68-FA-01 FAURE, P./ KAHANE, A.
INTERPRETATION OF OPTICAL SPECTRA OF LOW FREQUENCY OF I
CE BY MEANS OF A DYNAMIC MODEL OF CRYSTALLINE LATTICE (I
N FRENCH)
J. PHYS. PARIS, V.28, P.944 (1968)
H2.O ..FREQUENCY DISTRIBUTION/ DISPERSION RELATION/ LAT
TICE DYNAMICS/ THEORY/ SOLID
- 68-FE-01 FELDKAMP, L.A./ VENKATARAMAN, G./ KING, J.S.
DISPERSION RELATION FOR SKELETAL VIBRATIONS IN DEUTERAT
ED POLYETHYLENE
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.159-P.1
65 (1968)
POLYETHYLENE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION
RELATION/ CONST.-W
- 68-FL-01 FLEURY, P.A./ SCOTT, J.F./ WORLOCK, J.M.
SOFT PHONON MODES AND THE 110DK PHASE TRANSITION IN SR,
TI.03
PHYS. REV. LETT. V.21, P.16 (1968)
SR.TI.03 ..RAMAN SPECTROSCOPY
- 68-FO-01 FORSTER, D./ MARTIN, P.C.
MOMENTS OF THE MOMENTUM DENSITY CORRELATION FUNCTIONS I
N SIMPLE LIQUIDS

- PHYS. REV., V.170, P.155-P.159 (1968)
THEORY-OF-FLUIDS ..LIQUID/ THEORY/ KORRELATION FUNCTION
..FOURTH-FREQUENCY-MOMENT/ SUM RULES
- 68-FO-02 FORSTER, D./ MARTIN, P.C. / YIP, S.
MOMENT METHOD APPROXIMATION FOR THE VISCOSITY OF SIMPLE
LIQUIDS APPLICATION TO ARGON
PHYS. REV., V.170, P.160-P.163 (1968)
THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION ..ARGON
/ VISCOSITY/ MOMENT METHOD
- 68-FO-03 FOURNIER, R.P./ SAVOIE, R./ BESSETTE, F./ CABANA,
A.
VIBRATIONAL SPECTRA OF LIQUID AND CRYSTALLINE C.F4
J. CHEM. PHYS., V.49, P.1159 (1968)
C.F4 ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID/ SOLI
D ..70DK/ 125DK/ INFRA-RED/ RAMAN SPECTRA
- 68-FR-01 FRANCHETTI, S./ MAZZA, A.
ON THE INTERPRETATION OF SOME EXPERIMENTAL RESULTS ON R
ADIATION SCATTERING AND ATOMIC MOTIONS FOR SOME NOBLE G
ASES IN THE LIQUID STATE
NUOVO CIM., B, V.55, P.348-P.361 (1968)
AR/ NE/ HE ..THEORY/ MONATOMIC LIQUID/ RADIAL DENSITY A
ND SCATTERIN FUNCTION
- 68-FR-02 FRANCHETTI, S.
ON A MODEL FOR MONATOMIC LIQUIDS
NUOVO CIM., B, V.55, P.335-P.347 (1968)
THEORY-OF-FLUIDS/ NEUTRON-SCATTERING-IN-FLUIDS ..MONATO
MIC LIQUIDS/ RADIAL DENSITY/ SCATTERING FUNCTION
- 68-FU-01 FULINSKI, A./ ZGIERSKI, M.
SCATTERING SLOW NEUTRONS BY GASEOUS METHANE AND INTERMO
LECULAR INTERACTIONS
PHYS. LETT., V.27A, P.9 (1968)
METHANE ..EXPERIMENT/ GAS
- 68-GE-01 GERBAUX, X./ HADNI, A.
LATTICE VIBRATIONS OF PYRAZINE CRYSTAL
J. CHEM. PHYS., V.49, P.955 (1968)
PYRAZINE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ SOLID
- 68-GI-01 GIBBS, A.G./ LINDEMETER, C.W.
ANALYTICAL EVALUATION OF THE LARGE TIME CONTRIBUTION TO
NEUTRON SCATTERING CROSS SECTIONS
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V
.1, P.271 (1968)
H2.O ..SCATTERING THEORY/ LIQUID
- 68-GI-02 GISSLER, W./ AXMANN, A./ SPRINGER, T.
INELASTIC NEUTRON SCATTERING ON SOLID AND LIQUID TELLUR
- IUM AND SELENIUM
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.245-P.2
52 (1968)
SE/ TE ..EXPERIMENT/ SOLID/ LIQUID/ TOF/ 3-AXIS-SPECTRO
METER ..340DC FOR SE/ 450DC FOR TE
- 68-GL-01 GLAESER, W.
A REVIEW OF SCATTERING LAW STUDIES FOR MODERATORS
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.235 (1968)
H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O ..COMPILATION/ SCA
TTERING FUNCTION/ CROSS SECTION EVALUATION
- 68-GL-02 GLAESER, W.
STUDIES OF INELASTIC SCATTERING OF SLOW NEUTRON BY MODE
RATORS
NUKLEONIK, V.11, P.282 (1968)
H2.O/ D2.O/ ZR-H/ GRAPHITE/ BE/ BE.O ..SCATTERING FUNCT
ION/ DIFFUSION PARAMETER/ COMPILATION
- 68-GL-03 GLASS, L./ RICE, S.A.
UNIFIED APPROXIMATION FOR THE VELOCITY AUTOCORRELATION
FUNCTION AND THE STRUCTURE FUNCTION OF A SIMPLE LIQUID
PHYS. REV., V.176, P.239-P.249 (1968)
NEUTRON-SCATTERING-IN-FLUIDS/ AR ..THEORY/ LIQUID/ CORR
ELATION FUNCTION ..COHERENT-SCATTERING CROSS SECTION
- 68-GL-04 GLASS, L./ RICE, S.A.
NEW APPROXIMATION FOR THE CALCULATION OF NEUTRON SCATTE
RING FROM A SIMPLE LIQUID
PHYS. REV., V.165, P.186-P.194 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CORRELATION FUNC
TION/ DIFFERENTIAL SCATTERING CROSS SECTION
- 68-GL-05 GLASS, L./ RICE, S.A.
UNIFIED APPROXIMATION FOR THE VELOCITY AUTOCORRELATION
FUNCTION AND THE STRUCTURE FUNCTION OF A SIMPLE LIQUIDS
PHYS. REV., V.176, P.239-P.249 (1968)
THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION/ THEORY
/ NEUTRON SCATTERING ..ONE-PARTICLE AND TWO-PARTICLE MO
TIONS IN MONATOMIC LIQUID
- 68-GR-01 GRANT, D.M./ STRONG, K.A./ BRUGGER, R.M.
DIRECT OBSERVATION OF METHYL LIBRATIONS IN NEOPENTANE
PHYS. REV. LETT., V.20, P.983 (1968)
PENTANE ..EXPERIMENT/ LIBRATIONAL MOTION
- 68-GR-02 GRIMVALL, S./ GRIMVALL, G.
X-RAY DEBYE TEMPERATURE FOR AL, NB AND PB
ACTA CRYSTALLOGR., SECT. A, V.24, P.612 (1968)
AL/ NB/ PB ..FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DY
NAMICS ..DEBYE TEMP.

- 68-GR-03 GROSS, E.P./ WISNIVSKY, D.
SPACE-TIME CORRELATION FUNCTIONS FOR THE ENSKOG DENSE GAS
AS THEORY
PHYS. FLUIDS, V.11, P.1387-P.1394 (1968)
THEORY-OF-FLUIDS ..KINETIC EQUATION/ HARD SPHERE GAS
- 68-GU-01 GUPTA, V.D./ TREVINS, S./ BOUTINE, H.
VIBRATION SPECTRA OF POLYGLYSINE
J. CHEM. PHYS., V.48, P.3008 (1968)
POLYGLYCINE ..FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS
- 68-HA-01 HARLING, O.K.
SLOW-NEUTRON INELASTIC SCATTERING AND DYNAMICS OF HEAVY WATER
NUCL. SCI. ENG., V.33, P.41-P.50 (1968)
D2.O ..SCATTERING FUNCTION/ LIQUID/ FREQUENCY DISTRIBUTION/ EXPERIMENT ..ROOM TEMP.
- 68-HA-02 HARLING, O.K.
THE DYNAMICS OF LIQUID H2.O AND D2.O AND SOLID H2.O FROM THE INELASTIC SCATTERING OF EPITHERMAL NEUTRONS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.507-P.519 (1968)
H2.O/ D2.O ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION ..EPITHERMAL NEUTRONS
- 68-HA-03 HARLING, O.K.
THE DYNAMICS OF LIQUID H2.O AND D2.O AND SOLID H2.O FROM THE INELASTIC SCATTERING OF EPITHERMAL NEUTRONS
BNWL-SA-1535 (1968)
H2.O/ D2.O ..EXPERIMENT/ TOF/ DIFFERENTIAL CROSS SECTION/ SPECTRAL DENSITY ..299DK/ 268DK
- 68-HA-04 HARTMANN, W.H.
THEORY OF THE VIBRATIONS OF DILUTE ALLOYS WITH SHORT-RANGE ORDER
PHYS. REV., V.172, P.677 (1968)
THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..ALLOY/ IMPURITY EFFECT/ DOUBLE-TIME GREEN FUNCTION
- 68-HA-05 HAUTECLER, S./ NEVE-DE-MEVERGNIES, M.
APPLICATION OF THE KREBS MODEL TO THE STUDY OF THE LATTICE DYNAMICS OF HEXAGONAL CLOSE-PACKED METALS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.91-P.99 (1968)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..METAL/ HEXAGONAL STRUCTURE
- 68-HA-06 HAYWOOD, B.C./ PAGE, P.I.
THE SCATTERING LAW FOR HEAVY WATER AT 540DK AND LIGHT WATER AT 500DK
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.361 (1968)
H2.O/ D2.O ..EXPERIMENT/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION
- 68-HE-01 HENRY, B.R./ SIEBRAND, W.
ANHARMONICITY IN POLYATOMIC MOLECULES. THE CH-STRETCHING OVERTONE SPECTRUM OF BENZENE
J. CHEM. PHYS., V.49, P.5369 (1968)
BENZENE ..FREQUENCY SPECTRUM/ THEORY/ LIQUID/ MOLECULE DYNAMICS
- 68-HE-02 HERDADE, S.B.
SLOW-NEUTRON SCATTERING AND ROTATIONAL FREEDOM OF METHYL GROUPS IN SEVERAL ORGANIC COMPOUNDS
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.197-P.204 (1968)
METHYLENE ..EXPERIMENT/ SIGMA(E) ..METHYL GROUPS IN ORGANIC COMPOUNDS
- 68-HO-01 HO, P.S.
LATTICE-DYNAMIC CALCULATION FOR ALKALI METALS
PHYS. REV., V.169, P.523 (1968)
THEORY-OF-SOLIDS/ NA/ K ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS
- 68-HO-02 HOLMRYD, S./ NELIN, G.
DIFFUSIVE MOTIONS IN BENZENE AND TOLUENE STUDIED WITH SLOW NEUTRONS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.475-P.482 (1968)
BENZENE/ TOLUENE ..EXPERIMENT/ TOF ..DIFFUSIVE MOTION/ QUASI-ELASTIC
- 68-HO-03 HOYLAND, J.R.
INTERNAL ROTATION IN BUTANE
J. CHEM. PHYS., V.49, P.2563 (1968)
C4.H10 ..THEORY/ MOLECULE DYNAMICS
- 68-II-01 IIZUMI, M./ AYAO, S.
TOTAL CROSS SECTION OF GLASSY CARBON FROM 0.001 TO 0.1E V
J. NUCL. SCI., TECHNOL., TOKYO, V.5, P.649 (1968)
C ..SIGMA (E)
- 68-IV-01 IYENGAR, P.K.
INTERATOMIC FORCES IN SOLIDS
THEORY OF CONDENSED MATTER, IAEA, P.665-P.688 (1968)
8)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..LECTURE NOTE

- 68-IY-02 IVENGAR, P.K./ VENKATARAMAN, G./ GAMEEL, Y.H./ RAO, K.K.
KOHAN ANOMALIES IN ZINC
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.195-P.201 (1968)
ZN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..KOHAN EFFECT
- 68-JA-01 JACROT, B.
NEUTRONS AND CRITICAL PHENOMENA
THEORY OF CONDENSED MATTER, IAEA, P.483-P.499 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..PHASE TRANSITION/ CRITICAL SCATTERING/ LECTURES
- 68-JA-02 JANIK, J.A.
MOLECULAR DYNAMICS STUDIED BY NEUTRON INELASTIC SCATTERING AND COMPUTING METHOD
INP-600/PS (1968)
C.H4/ H2.O/ N.H3/ LI2.S.O4.H2.O/ H3.O.N.O3/ C.H3.I ..EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR DYNAMICS
- 68-JA-03 JANIK, J.A.
NEUTRONS AND MOLECULES
THEORY OF CONDENSED MATTER, IAEA, P.577-P.601 (1968)
NEUTRON-SCATTERING-IN-SOLIDS/ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING BY MOLECULES/ LECTURES
- 68-JA-04 JARVIS, R.G.
CALCULATION AND THE THERMAL SCATTERING LAW FOR SOLIDS AND LIQUIDS
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.261 (1968)
H2.O ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY
- 68-JO-01 JOHNSTON, A.S.
TWO PHONON INELASTIC COHERENT THERMAL SCATTERING CROSS SECTION OF BERYLLIUM
WANL-TME-1854 (1968)
BE ..THEORY/ SOLID/ HARMONIC APPROXIMATION/ SCATTERING LAW/ INCOHERENT APPROXIMATION/ FREQUENCY DISTRIBUTION/ DEBYE-WALLER FACTOR ..COHERENT CROSS SECTION
- 68-KA-01 KAGAN, Y./ BROVMAN, E.G.
THE ROLE OF ELECTRONS IN PHONON SPECTRUM FORMATION IN METALS (IN RUSSIAN)
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.3-P.34 (1968)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..METAL/ ELECTRON CROSS-SECTION FOR MULTI-PHONON SCATTERING OF NEUTRONS
- 68-KA-02 KAHN, R./ TROTIN, J.P./ CRIBIER, D./ BENOIT, C.
STUDY OF THE DYNAMICS OF THE LATTICE OF A Mg.F2 MONOCRYSTAL BY INELASTIC NEUTRON SCATTERING (IN FRENCH)
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.289-P.293 (1968)
MG.F2 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMICS/ DISPERSION RELATION
- 68-KA-03 KARIMOV, I./ BROVMAN, E.G./ ZEMLYANOV, M.G./ SOMENKOV, V.A./ CHERNOPOLEKOV, N.A.
BROADENING OF THE OPTICAL BRANCHES OF THE PHONON SPECTRUM IN METAL HYDRIDES
FIZ. TVERD. TELA (SOV. PHYS. SOLID STATE), V.9 (V.9), P.1991-P.1995 (P.1566-P.1568) (1968)
CE-H/ TH-H/ U-H ..LATTICE DYNAMICS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ..TOF/ 20DC
- 68-KA-04 KARO, A.M./ HARDY, J.K.
LATTICE DYNAMICS AND SPECIFIC HEAT DATA OF CS.CL, CS.BR AND CS.I
J. CHEM. PHYS., V.48, P.3173 (1968)
CS.CL/ CS.BR/ CS.I ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..RIGID-ION MODEL/ POLARIZATION DIPOLE MODEL/ DEFORMATION DIPOLE MODEL
- 68-KE-01 KERR, W.C.
CORRELATED MOTIONS IN SIMPLE CLASSICAL LIQUIDS
PHYS. REV., V.174, P.316-P.325 (1968)
THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION/ THEORY
- 68-KI-01 KIROUAC, G.J./ MOORE, W.E./ ESCH, L.J./ SEEMAN, K.W./ YEATER, M.L.
EPITHERMAL NEUTRON INELASTIC SCATTERING AND SCATTERING LAW FOR H2.O
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.389 (1968)
H2.O ..SCATTERING FUNCTION/ EXPERIMENT ..300DK
- 68-KI-02 KITAGAWA, T./ MIYAZAWA, T.
INTERCHAIN POTENTIAL, FREQUENCY SPECTRUM, SPECIFIC HEAT AND ROOT MEAN SQUARED DISPLACEMENTS IN POLYETHYLENE CRYSTAL
REPORTS ON PROGRESS IN POLYMER PHYSICS IN JAPAN, V.11, P.219-P.222 (1968)
POLYETHYLENE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..SPECIFIC HEAT
- 68-KI-03 KITAGAWA, T./ MIYAZAWA, T.
CROSS-SECTION FOR MULTI-PHONON SCATTERING OF NEUTRONS

- Y CRYSTALLINE POLYETHYLENE
J. POLY. SCI., PART B, V.6, P.83-P.86 (1968)
POLYETHYLENE ..THEORY/ FREQUENCY DISTRIBUTION ..ONE, TWO
O. THREE-PHONON SCATTERING/ 100DK
- 68-KO-01 KOHLER, T.R.
NEW THEORY OF LATTICE DYNAMICS AT ODK
PHYS. REV., V.169, P.942 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..LATTICE DYNAMICS/ THEORY
- 68-KO-02 KOPPEL, J.U./ YOUNG, J.A.
NEUTRON SCATTERING IN BERYLLIUM
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.333 (1968)
BE ..LATTICE DYNAMICS/ SOLID/ THEORY/ DISPERSION RELATI
ON
- 68-KO-03 KOTHARI, L.S./ SINGAL, C.M.
LATTICE DYNAMICS OF MICROCRYSTALLITE
PHYS. REV., V.168, P.952 (1968)
THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS
- 68-KO-04 KOTHARI, L.S./ GOYAL, I.C.
NEUTRON SCATTERING FROM AN N-DIMENSIONAL LATTICE (N=1,
2,3)
PHYS. REV., V.168, P.752 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ LATTICE D
YNAMICS/ FREQUENCY DISTRIBUTION
- 68-KO-05 KOTOV, B.A./ OKUNEVA, N.M./ PLACHENOVA, E.L.
EXPERIMENTAL DETERMINATION OF THE THERMAL VIBRATION SPE
CTRUM OF WHITE TIN
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.10 (V
.10), P.513-P.517 (P.402-P.405) (1968 (1968))
SN ..EXPERIMENT/ PHONON SPECTRA/ SPECIFIC HEAT
- 68-LA-01 LAJEUNESSE, C./ MOORE, W.E./ PUROHIT, S.N./ YEATER
, M.L.
URANIUM CARBIDE SCATTERING LAW
WASH-1124, P.612 (1968)
U.C ..THEORY/ EXPERIMENT/ CROSS SECTION/ FREQUENCY DIST
RIBUTION
- 68-LA-02 LARSSON, K.E.
LIQUID DYNAMICS FROM NEUTRON SCATTERING
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.397-P.4
29 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID DYNAMICS/ REVIEW
- 68-LA-03 LARSSON, K.E.
ROTATIONAL AND TRANSLATIONAL DIFFUSION IN COMPLEX LIQUID
- DS
PHYS. REV., V.167, P.171-P.182 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ DIFFUSION PARAME
TER ..ROTAIONAL DIFFUSION/ TRANSLATIONAL DIFFUSION
- 68-LE-01 LEBOWITZ, J.L./ PERCUS, J.K./ SYKES, J.
TIME EVOLUTION OF THE TOTAL DISTRIBUTION FUNCTION OF A O
NE-DIMENSIONAL SYSTEM OF HARD RODS
PHYS. REV., V.171, P.224-P.235 (1968)
THEORY-OF-FLUIDS ..THEORY ..TIME DEPENDENT DISTRIBUTION
FUNCTION/ ONE-DIMENSIONAL SYSTEM
- 68-LE-02 LEIBFRIED, G.
LATTICE DYNAMICS
THEORY OF CONDENSED MATTER, IAEA, P.175-P.227 (196
8)
THEORY-OF-SOLIDS ..LECTURE NOTE
- 68-LE-03 LEUNG, P.S./ TAYLOR, T.I./ HAVENS-JR, W.W.
STUDIES OF PHASE TRANSITIONS IN AMMONIUM SALTS AND BARR
IERS TO ROTATION OF AMMONIUM IONS BY NEUTRON-SCATTERING
CROSS SECTIONS AS A FUNCTION OF TEMPERATURE
J. CHEM. PHYS., V.48, P.4912-P.4918 (1968)
N.H4.F/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.S.O4/ (N.H4)2
.CR2.O7/ N.H4.CL.O4 ..EXPERIMENT/ TOTAL CROSS SECTION/
MOLECULAR DYNAMICS ..TEMPERATURE DEPENDENCE
- 68-LO-01 LOH, E.
OPTICAL PHONONS IN BE.O CRYSTALS
PHYS. REV., V.166, P.673 (1968)
BE.O ..LATTICE DYNAMICS/ EXPERIMENT ..ROOM TEMP./ INFRA
RED REFLECTION/ RAMAN SPECTRAL SHIFTS/ SINGLE CRYSTAL
- 68-LO-02 LONGSTER, G.F./ WHITE, J.W.
VIBRATIONAL ASSIGNMENTS IN POLYMER NEUTRON-SCATTERING S
PECTRA BY ATOMIC SUBSTITUTION
J. CHEM. PHYS., V.48, P.5271 (1968)
POLYACETALDEHYDE/ POLYTRIFLUOROACETALDEHYDE ..EXPERIMEN
T/ TOF/ NEUTRON SPECTRUM ..ROOM TEMPERATURE/ COLD NEUTR
ON SOURCE
- 68-LY-01 LYNCH-JR, J.E./ SUMMERFIELD, G.C./ FELDKAMP, L.A./
KING, J.S.
NEUTRON SCATTERING IN NORMAL AND DEUTERATED POLYETHYLENE
J. CHEM. PHYS., V.48, P.912 (1968)
POLYETHYLENE ..SOLID/ EXPERIMENT/ THEORY/ FREQUENCY DIS
TRIBUTION/ LATTICE DYNAMICS ..ROOM TEMP.
- 68-LY-02 LYNCH-JR, J.E./ SUMMERFIELD, G.C.
FREQUENCY DISTRIBUTIONS OF SYNDIOTACTIC POLYVINYLCHLORI
DE
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.167-P.1

- 73 (1968)
POLYVINYL CHLORIDE ..THEORY/ LATTICE DYNAMICS/ DISPERSI
ON RELATION/ FREQUENCY DISTRIBUTION
- 68-MA-01 MANNHEIM, P.D.
INFLUENCE OF FORCE-CONSTANT CHANGES ON THE LATTICE DYNA
MICS OF CUBIC CRYSTALS WITH POINT DEFECT
PHYS. REV., V.165, P.1011 (1968)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY
- 68-MA-02 MARADUDIN, A.A./ VOSKO, S.H.
SYMMETRY PROPERTIES OF THE NORMAL VIBRATIONS OF CRYSTAL
REV. MOD. PHYS., V.40, P.1 (1968)
DIAMOND ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PR
OPERTIES/ SPACE GROUP/ IRREDUCIBLE REPRESENTATION
- 68-MA-03 MARCH, N.H.
THE LIQUID STATE
THEORY OF CONDENSED MATTER, IAEA, P.93-P.174 (1968)
)
THEORY-OF-FLUIDS ..LECTURE NOTE/ SCATTERING FUNCTION
- 68-MA-04 MARSDEN, R.S./ MCMURRY, H.L.
CALCULATED SCATTERING LAW AND THERMAL NEUTRON SPECTRA F
OR BENZENE
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.457 (1968)
C6.H6 ..SIGMA (E)/ SIGMA (E-E-PRIME)/ SCATTERING FUNCTI
ON/ NEUTRON SPECTRUM/ THEORY/ GAS/ MOLECULE DYNAMICS
- 68-MA-05 MARTEL, P./ COWLEY, R.A./ STEVENSON, R.W.H.
EXPERIMENTAL STUDIES OF THE MAGNETIC AND PHONON EXCITAT
IONS IN COBALT FLUORIDE
CAN, J. PHYS., V.46, P.1355-P.1370 (1968)
CO.F2 ..EXPERIMENT/ CONSTANT- θ METHOD/ DISPERSION RELAT
ION ..80DK/ 4.2DK/ RIGID ION MODEL
- 68-MA-06 MARTIN, D.G.
THE CALCULATION OF DIFFERENTIAL NEUTRON SCATTERING CROS
S SECTIONS OF POINT DEFECTS IN A RELAXED LATTICE
AERE-R-5682 (1968)
NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING THEORY ..SCAT
TERING CROSS SECTION BY INTERSTITIAL ATOM
- 68-MA-07 MARTIN, R.M.
LATTICE VIBRATIONS IN SILICON; MICROSCOPIC DIELECTRIC M
ODEL
PHYS. REV. LETT., V.21, P.536 (1968)
SI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 68-MA-08 MARTIN, D.G.
A STUDY OF VERY SMALL DEFECT CLUSTERS IN IRRADIATED MAG
- NESIUM OXIDE, USING LONG-WAVELENGTH NEUTRON SCATTERING
MEASUREMENTS
PROC. PHYS. SOC., LONDON, V.1, P.333 (1966)
MG.O ..EXPERIMENT/ THEORY/ SOLID ..DEFECT SCATTERING
- 68-MA-09 MARTIN, P.C./ YIP, S.
FREQUENCY DEPENDENT FRICTION CONSTANT ANALYSIS OF DIFFU
SION IN SIMPLE LIQUIDS
AR ..FREQUENCY DISTRIBUTION/ THEORY/ LIQUID/ STATISTICA
L MECHANICS ..FLUCTUATION-DISSIPATION THEOREMS/ DISPERS
ION RELATIONS/ SUM RULES
- 68-MA-10 MATEESCU, N./ TEUTSCH, H./ DIACONESCU, A./ NAHORN
AK, V.
MOLECULAR DYNAMICS IN LIQUID NITROGEN AND LIQUID BISMUT
H INVESTIGATED BY COLD NEUTRON SCATTERING
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.439-P.4
47 (1968)
N2/ B1 ..EXPERIMENT/ TOF/ SCATTERING FUNCTION ..77.4DK
FOR N2/ 560DK FOR B1
- 68-NE-01 MELVIN, J.S./ PIRIE, J.D./ SMITH, T.
LATTICE DYNAMICS AND IONIC DEFORMATION IN SOME ALKALI H
ALIDES
PHYS. REV., V.175, P.1082-P.1090 (1968)
NA.F/ NA.CL/ NA.BR/ NA.I ..THEORY/ LATTICE DYNAMICS/ DI
SPERSION CURVE ..SHELL MODEL/ IONIC DEFORMATION
- 68-MI-01 MIKA, K./ DORNER, B./ STILLER, H.H.
BRILLOUIN SCATTERING OF NEUTRONS FROM LIQUID C.O
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.599-P.6
07 (1968)
C.O ..EXPERIMENT/ CONST.- θ ..77.3DK FOR LIQUID/ 63.1DK
FOR SOLID
- 68-MI-02 MILLER, A.P./ BROCKHOUSE, B.N.
ANOMALOUS BEHAVIOR OF THE LATTICE VIBRATIONS AND THE EL
ECTRONIC SPECIFIC HEAT OF PALLADIUM
PHYS. REV. LETT., V.20, P.798 (1968)
PD ..EXPERIMENT/ THEORY/ LATTICE DYNAMICS/ DISPERSION R
ELATION ..TRIPLE AXIS SPECTROMETER/ 85DK/ 120DK/ 296DK/
673DK
- 68-MI-03 MILLER, S.A./ CASPERS, H.H./ RAST, H.E.
LATTICE VIBRATIONS OF YTTRIUM VANADATE
PHYS. REV., V.168, P.964-P.969 (1968)
Y.V.04 ..EXPERIMENT/ LATTICE DYNAMICS ..INFRARED AND RA
HMAN SPECTROSCOPY
- 68-MI-04 MINKIEWICZ, V.J./ KITCHENS, T.A./ LIPSHULTZ, F.P./
NATHANS, R./ SHIRANE, G.

- PHONON SPECTRUM OF HCP 4HE
 PHYS. REV., V.174, P.267 (1968)
 HE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RE
 LATION ..1.03DK
- 68-MO-01 MOZER, B.
 LOCALIZED MODES, RESONANT MODES AND IMPURITY VIBRATIONA
 L BANDS IN VANADIUM ALLOYS
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.55-P.63
 (1968)
 V ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOYS/ RESONANT, LO
 CALIZED MODES
- 68-MY-01 MYERS, W.R./ RANDOLPH, P.D.
 LOW-FREQUENCY VIBRATIONS IN POLYETHYLENE AT 300DK, 77DK
 AND 4.2DK
 J. CHEM. PHYS., V.49, P.1043 (1968)
 POLYETHYLENE ..EXPERIMENT/ LATTICE DYNAMICS ..DIFFERENT
 IAL CROSS SECTION/ 300DK/ 77DK/ 4.2DK/
- 68-MY-02 MYERS, W.R.
 NEUTRON SCATTERING IN ORIENTED POLYETHYLENE AT 300, 77
 AND 4.2DK
 IN-1151 (1968)
 POLYETHYLENE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ SOLI
 D ..TOF/ SPECIFIC HEAT
- 68-NA-01 NAKAHARA, Y.
 PHONON SPECTRUM AND THERMAL NEUTRON SCATTERING IN LIGHT
 WATER ICE
 J. NUCL. SCI. TECHNOL., TOKYO, V.5, P.635 (1968)
 H2.O ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE D
 YNAMICS
- 68-NA-02 NARTEN, A.H.
 DIFFRACTION PATTERN AND STRUCTURE OF LIQUID BENZENE
 J. CHEM. PHYS., V.48, P.1630 (1968)
 BENZENE ..LIQUID/ EXPERIMENT/ MOLECULAR DYNAMICS ..X-R
 Y DIFFRACTION/ 25DC
- 68-NA-03 NATKANIEC, I./ PARLINSKI, K./ JANIK, J.A./ BAJOREK
 A./ SUDNIK-HRYNKIEWICZ, M.
 LOCAL VIBRATIONS OF IMPURITY ATOMS IN COPPER AND LEAD
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.65-P.78
 (1968)
- CU-BE/ CU-MG/ PB-NA/ PB-MG ..EXPERIMENT/ LATTICE DYNAMI
 CS ..ALLOY/ LOCAL VIBRATION
- 68-NE-01 NEIL, J.M./ RUSSEL-JR, J.L./ BROWN, J.R.
 TOTAL NEUTRON CROSS SECTION OF WATER
 NUCL. SCI. ENG., V.33, P.265 (1968)
 H2.O ..EXPERIMENT/ LIQUID/ TOTAL CROSS SECTION ..23DC/

LINAC

- 68-NE-02 NELKIN, M./ ORTOLEVA, P.J.
 COLLECTIVE MODES IN LIQUIDS AND NEUTRON SCATTERING
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.535-P.5
 44 (1968)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID ..KINETIC
 THEORY/ COLLECTIVE MODES
- 68-NE-03 NERBLE, J.L./ WARREN, J.L./ YARNELL, J.L.
 LATTICE DYNAMICS OF LITHIUM HYDRIDE
 PHYS. REV., V.168, P.980-P.989 (1968)
 LI.H ..FREQUENCY DISTRIBUTION/ DISPERSION RELATION/ LAT
 TICE DYNAMICS/ EXPERIMENT ..ROOM TEMPERATURE/ LIQ
- 68-NG-01 NG, S.C./ BROCKHOUSE, B.N.
 ATOMIC VIBRATIONS IN FACE-CENTERED-CUBIC ALLOYS OF BI,
 PB AND TL
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.253-P.2
 66 (1968)
- PB-TL/ BI-TL/ BI-PB/ BI-PB-TL ..EXPERIMENT/ LATTICE DYN
 AMICS/ DISPERSION RELATION ..100DK/ KOHN ANOMALIES
- 68-NI-01 NICKLOW, R.M./ VIJAYARAGHAVAN, P.R./ SMITH, H.G./
 DOLLING, G./ WILKINSON, M.K.
 COHERENT INELASTIC SCATTERING STUDY OF LOCAL AND IN-BAN
 D MODES IN CU(1-X)-AL(X) CRYSTALS
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.47-P.54
 (1968)
- CU-AL ..EXPERIMENT/ LATTICE VIBRATION ..LOCAL MODE
- 68-NI-02 NICKLOW, R.M./ VIJAYARAGHAVAN, P.R./ SMITH, H.G./
 WILKINSON, M.K.
 OBSERVATION OF LOCALIZED VIBRATIONS IN CU 4/100, AL BY
 COHERENT INELASTIC NEUTRON SCATTERING
 PHYS. REV. LETT., V.20, P.1245 (1968)
- CU-AL ..PHONON DISPERSION/ LOCALIZED MODE
- 68-NI-03 NILSSON, G.
 OBSERVATIONS OF THE KOHN EFFECT IN COPPER
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.187-P.1
 94 (1968)
- CU ..EXPERIMENT/ LATTICE VIBRATION/ DISPERSION RELATION
 ..KOHN EFFECT
- 68-NO-01 NORTH, D.M./ ENDERBY, J.E./ EGELSTAFF, P.A.
 THE STRUCTURE FACTOR FOR LIQUID METALS, II - RESULTS FO
 R LIQUID ZN, TL, PB, SN AND BI
 J. PHYS., C, LONDON, V.1, P.1075-P.1087 (1968)
 ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LIQUID/ STATISTICAL ME
 CHANICS ..LIQUID METAL/ 340DC-1100DC

- 68-NO-02 NORTH, D.M./ ENDERBY, J.E./ EGELSTAFF, P.A.
THE STRUCTURE FACTOR FOR LIQUID METALS I. THE APPLICATION OF NEUTRON DIFFRACTION TECHNIQUES
J. PHYS., C. LONDON, V.2, P.784-P.794 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..STRUCTURE FACTOR/ LIQUID ..NEUTRON DIFFRACTION/ LIQUID METAL
- 68-NO-03 NORTH, D.M./ ENDERBY, J.E./ EGELSTAFF, P.A.
THE STRUCTURE FACTOR FOR LIQUID METALS I.THE APPLICATION OF NEUTRON DIFFRACTION TECHNIQUES.
J. PHYS., C. LONDON, V.1, P.784 (1968)
PB/ TI ..STRUCTURE FACTOR
- 68-NO-04 NOSSAL, R.
COLLECTIVE MOTION IN SIMPLE CLASSICAL FLUID
PHYS. REV., V.166, P.81 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ THEORY
- 68-O--01 O'REILLY, D.E.
SELF-DIFFUSION COEFFICIENTS AND ROTATIONAL CORRELATION TIMES IN POLAR LIQUIDS
J. CHEM. PHYS., V.49, P.5416 (1968)
C.Cl4/ C.H.Cl3/ C6.H5.Cl/ H.F/ H.Cl/ N.H3/ H2.O ..CORRELATION FUNCTION/ MOLECULAR ROTATIONS/ LIQUID/ EXPERIMENT/ DIFFUSION PARAMETER ..POLAR LIQUID/ NMR/ RELAXATION TIME/ QUASILATTICE MODEL/ CORRELATION TIME/ VISCOSITY
- 68-OH-01 OHRlich, R./ DREXEL, W.
LATTICE DYNAMICS OF PLATINUM
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.203-P.208 (1968)
PT ..EXPERIMENT/ LATTICE DYNAMICS/ TOF/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
- 68-OS-01 OSTHELLER, G.L./ SCHMUNK, R.E./ BRUGGER, R.M./ KEARNEY, R.J.
PHONON DISPERSION RELATION OF BERYLLIUM OXIDE
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.315-P.324 (1968)
BE.O ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMIC S/ DISPERSION RELATION
- 68-OS-02 OSTHELLER, G.L./ SCHMUNK, R.E./ KEARNEY, R.J.
PHONON DISPERSION RELATION OF BERYLLIUM OXIDE
IN-1129 (1968)
BE.O ..DISPERSION RELATION/ CRYSTAL SPECTROMETER/ LATTICE DYNAMICS/ EXPERIMENT/ SOLID/ HARMONIC APPROXIMATION/ STRUCTURE FACTOR
- 68-OZ-01 OZELTON, M.W./ SWALIN, R.A.
SELF-DIFFUSION IN LIQUID SODIUM AT CONSTANT VOLUME AND PRESSURE
- PHIL. MAG., V.18, P.441 (1968)
NA ..DIFFUSION COEFFICIENT/ LIQUID
- 68-PA-01 PAGE, D.I./ HAYWOOD, B.C.
THE HARWELL SCATTERING LAW PROGRAMME. FREQUENCY DISTRIBUTIONS OF MODERATORS
AERE-R-5778 (1968)
H2.O/ D2.O/ GRAPHITE/ BE/ BE.O ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VARIOUS TEMPERATURES
- 68-PA-02 PAGE, D.I.
THE PHONON DISTRIBUTION OF GRAPHITE AT HIGH TEMPERATURES
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.325-P.334 (1968)
GRAPHITE ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION ..1800DK
- 68-PA-03 PAGE, D.I.
SCATTERING LAW (ALPHA, BETA)-VALUES FOR A MIXTURE OF LIGHT WATER AND HEAVY WATER
AERE-R-5832 (1968)
H2.O/ D2.O ..EXPERIMENT/ SCATTERING FUNCTION/ COMPILATION ..MIXTURE OF H2.O AND D2.O/ 0-0.13EV/ 1-17A-1
- 68-PA-04 PAHOR, S.
MULTIPLE SCATTERING AND INVERSE ALBEDO PROBLEM
PHYS. REV., V.175, P.218 (1968)
SCATTERING-THEORIES ..SCATTERING THEORY ..MULTIPLE SCATTERING CORRECTION
- 68-PA-05 PARKS, P.B./ PELLARIN, D.J./ PROCHNOW, N.H./ BAUMANN, N.P.
THERMAL NEUTRON DIFFUSION IN LIGHT AND HEAVY WATER
DP-1090 (1968)
H2.O/ D2.O ..EXPERIMENT/ DIFFUSION PARAMETER
- 68-PE-01 PERCUS, J.K./ YEVICK, G.J.
DIRECT CORRELATION FUNCTION IN SPACE AND TIME
PHYS. FLUIDS, V.11, P.2050-P.2052 (1968)
THEORY-OF-FLUIDS ..THEORY/ DIRECT CORRELATION FUNCTION
- 68-PI-01 PISERI, L./ ZERBI, G.
VIBRATIONAL FREQUENCY SPECTRA OF RANDOMLY FOLDED SIMPLE ZIG-ZAG CHAINS
CHEM. PHYS. LETT., V.2, P.127-P.131 (1968)
POLYETHYLENE ..THEORY/ PHONON SPECTRA/ ZIG-ZAG CHAIN
- 68-PO-01 POWELL, B.M./ MARTEL, P./ WOODS, A.D.B.
LATTICE DYNAMICS OF NIOBIUM-MOLYBDENUM ALLOYS
PHYS. REV., V.171, P.727 (1968)
NB-MO ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION

- ON ..ROOM TEMP./ ALLOY/ KOHN EFFECT
- 68-PO-02 POWELL, B.M.
LATTICE DYNAMICS OF HEXAMETHYLENETETRAMINE
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.185-P.1
95 (1968)
- HEXAMETHYLENETETRAMINE ..EXPERIMENT/ CONST.-0/ DISPERSI
ON CURVES/ FREQUENCY DISTRIBUTION ..296DK
- 68-PO-03 POWLES, J.G.
NUCLEAR MAGNETIC RESONANCE IN LIQUIDS AND SOLIDS (REVI
EW PAPER)
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.379 (19
68)
- REVIEW-ARTICLES ..TO COMPARE NMR WITH THAT OF NEUTRON S
CATTERING
- 68-PR-01 PRASK, H./ BOUTIN, H./ YIP, S.
FREQUENCY SPECTRUM OF HYDROGENEOUS MOLECULAR SOLID BY I
NELASTIC NEUTRON SCATTERING, HEXAGONAL H2.O ICE
J. CHEM. PHYS., V.48, P.3367 (1968)
- H2.O ..SOLID/ EXPERIMENT/ THEORY/ FREQUENCY DISTRIBUTIO
N ..COLD NEUTRON TOF/ 150DK
- 68-PU-01 PUROHIT, S.N./ PAN, S.S./ BISCHOFF, F./ BRYAUT, W
.A./ LAJUNESSE, C./
INELASTIC NEUTRON SCATTERING IN METAL HYDRIDES, U.C AND
U.O2 AND APPLICATIONS OF THE SCATTERING LAW
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.407 (1968)
- U.C/ U.O2/ ZR-H/ TI-H/ NB-H/ TH-H ..SCATTERING FUNCTION
/ FREQUENCY DISTRIBUTION/ EXPERIMENT
- 68-PY-02 PUROHIT, S.N.
DISCUSSION OF THE QUASI ELASTIC SCATTERING OF NEUTRONS
IN INCOHERENT LIQUIDS
J. PHYS. CHEM. LIQUIDS, V.1, P.13-P.32 (1968)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ QUASI EL
ASTIC/ INCOHERENT
- 68-PY-01 PYNN, R./ SQUIRES, G.L.
MEASUREMENTS OF FREQUENCIES OF NORMAL MODES OF MAGNESIU
M
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.215-P.2
22 (1968)
- MG ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/
TOF
- 68-QU-01 QUITNER, G./ VUKOVICH, S./ ERNST, G.
PRESSURE DEPENDENCE OF THE FREQUENCY OF SOME PHONONS IN
SODIUM IODIDE
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.367-P.3
- 72 (1968)
NA.1 ..EXPERIMENT/ LATTICE DYNAMICS ..PRESSURE EFFECTS/
3000 ATM
- 68-RA-01 RAHMAN, A.
CURRENT FLUCTUATIONS IN CLASSICAL LIQUIDS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.561-P.5
72 (1968)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ MOLECULAR DYNAMI
CS/ SCATTERING FUNCTION
- 68-RA-02 RANDOLPH, P.D.
SCATTERING LAW FOR LIQUID SODIUM AT SMALL MOMENTUM TRAN
SFERS
IN-1199 (1968)
- NA ..SCATTERING FUNCTION/ EXPERIMENT/ LIQUID ..375.8DK/
QUASI-ELASTIC/ INELASTIC
- 68-RA-03 RANDOLPH, P.D.
INELASTIC SCATTERING IN LIQUID SODIUM AT SMALL MOMENTUM
TRANSFER
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.449-P.4
56 (1968)
- NA ..EXPERIMENT/ TOF ..102DC/ SMALL MOMENTUM TRANSFER/
DIFFUSIVE AND COLLECTIVE EXCITATION
- 68-RA-04 RANDOLPH, P.D.
MASS-CURRENT FLUCTUATIONS IN LIQUID LEAD
PHYS. REV. LETT., V.20, P.531-P.533 (1968)
- PB ..LIQUID/ CORRELATION FUNCTION/ SCATTERING LAW/ EXPE
RIMENT
- 68-RA-05 RAO, K.R.
NEUTRON DIFFRACTION FROM LIQUID CARBON TETRACHLORIDE
J. CHEM. PHYS., V.48, P.2395-P.2398 (1968)
- C.CL4 ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION
- 68-RA-06 RAPEANU, S.
QUASI-ELASTIC SCATTERING OF COLD NEUTRONS IN C3H5*(O*O
)3 AT VARIOUS TEMPERATURES
PHYS. LETT., A, V.28A, P.31 (1968)
- GLYCELINE ..EXPERIMENT/ QUASI-ELASTIC SCATTERING
- 68-RA-07 RAST, H.E./ CASPERS, H.H./ MILLER, S.A./ BUCHANAN,
R.A.
INFRARED DISPERSION AND LATTICE VIBRATIONS OF LA,F3
PHYS. REV., V.171, P.1051 (1968)
- LA,F3 ..EXPERIMENT ..4.2DK/ 77DK/ 373DK/ INFRARED REFLE
CTION/ KRAMERS-KRONIG METHOD
- 68-RI-01 RICHTER, J./ VOSS, K.
NEW MODEL FOR THE CALCULATION OF NEUTRON SCATTERING

- PHYS. LETT., V.28A, P.376-P.377 (1968)
AR/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LINEARIZED V
LASOV-BOLTZMAN EQUATION
- 68-RI-02 RICHTER, J./ VOSS, K.
NEW MODEL FOR THE CALCULATION OF NEUTRON SCATTERING
PHYS. LETT., A, V.28, P.376-P.377 (1968)
AR ..THEORY/LIQUID/ QUASI-ELASTIC SCATTERING ..LINEARIZ
ED VLASOV EQUATION
- 68-RI-03 RICHTER, J./ VOSS, K.
DISPERSION RELATION OF THE VLASOV EQUATION (IN GERMANY)
ANN. PHYS., LEIPZIG, V.21, P.303-P.311 (1968)
THEORY-OF-FLUIDS ..THEORY/ COLLECTIVE MOTION/ CLASSICAL
SYSTEM/ DISPERSION/ VLASOV EQUATION
- 68-RI-04 RIEDER, K.H./ HOERL, E.M.
SEARCH FOR SURFACE MODES OF LATTICE VIBRATIONS IN MAGNE
SIUM OXIDE
PHYS. REV. LETT., V.20, P.209-P.211 (1968)
MG.O ..EXPERIMENT/ PHONON SPECTRA/ SURFACE MODE
- 68-RO-01 ROSS, D.K./ SZABO, F.P./ SNALAN, Y.
THE INELASTIC SCATTERING OF NEUTRONS FROM BENZENE AND W
ATER
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.477 (1968)
BENZENE/ H2.O ..SCATTERING FUNCTION/ FREQUENCY DISTRIBU
TION/ EXPERIMENT/ LIQUID ..20DC FOR BENZENE/ 23DC, 234D
C FOR H2.O
- 68-RU-01 RUSH, J.J./ FLOTOW, H.E.
VIBRATION SPECTRA OF VANADIUM HYDRIDE IN THREE CRYSTAL
PHASES BY INELASTIC NEUTRON SCATTERING
J. CHEM. PHYS., V.48, P.3795 (1968)
V-H ..FREQUENCY DISTRIBUTION/ EXPERIMENT
- 68-SA-01 SAKAMOTO, M./ HAMAGUCHI, Y.
LATTICE DYNAMICS OF CU(1-X)-NI(X)
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.181-P.1
86 (1968)
CU-NI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATI
ON ..ALLOYS
- 68-SA-02 SAKURAI, J./ BUYERS, W.J.L./ COWLEY, R.A./ DOLLING
G.
CRYSTAL DYNAMICS AND MAGNETIC EXCITATIONS IN COBALTOUS
OXIDE
PHYS. REV., V.167, P.510 (1968)
CO.O ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATIO
N ..3-AXIS SPECTROMETER/ 425DK/ 110DK
- 68-SA-03 SAMOSVAT, G.S./ SAYASOV, Y.S./ CHUBURKOV, V.T.
SCATTERING OF SLOW NEUTRONS BY WATER MOLECULES
ZH. EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.54 (V.27
) , P.29-P.36 (P.15-P.18) (1968)
H2.O ..EXPERIMENT/ MOLECULAR DYNAMICS/ TOF ..RESONANT-D
ETECTOR METHOD
- 68-SA-04 SAMPSON, T.E./ CARPENTER, J.M.
THERMAL NEUTRON INELASTIC SCATTERING BY METHYL ALCOHOL
AND METHYL MERCAPTAN
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.491-P.4
99 (1968)
ALCOHOL/ MERCAPTAN ..EXPERIMENT/ MOLECULAR DYNAMICS
- 68-SC-01 SCHENK, C./ WIENER, E./ WECKERMANN, B./ KLEY, W.
DISAPPEARANCE OF A VIBRATIONAL MODE IN THE FERROELECTRI
C PHASE TRANSITION OF K,H2,P,O4
PHYS. REV., V.172, P.576 (1968)
K,H2,P,O4 ..EXPERIMENT/ LATTICE DYNAMICS ..PHASE TRANSI
TION
- 68-SC-02 SCHENK, C./ WIENER, E./ WECKERMANN, B./ KLEY, W.
DISAPPEARANCE OF A VIBRATIONAL MODE IN THE FERROELECTRI
C PHASE TRANSITION OF K,H2,P,O4
PHYS. REV., V.172, P.576-P.578 (1968)
K,H2,P,O4 ..EXPERIMENT/ TOF/ SINGLE CRYSTAL ..AS A FUNC
TION OF TEMPERATURE/ PHASE TRANSITION
- 68-SC-03 SCHERMER, R.I./ BLUME, M.
POLARIZATION EFFECTS IN SLOW NEUTRON SCATTERING 3. NUCL
EAR POLARIZATION
PHYS. REV., V.166, P.554 (1968)
SCATTERING-THEORIES ..SOLID/ SCATTERING THEORY
- 68-SC-04 SCHMUCK, P./ QUITTNER, G.
THREE-BODY FORCES IN THE LATTICE DYNAMICS OF LEAD
SGAE-PH-74/1968 (1968)
LEAD ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNA
MICS
- 68-SC-05 SCHMUCK, P./ QUITTNER, G.
THREE-BODY FORCES IN THE LATTICE DYNAMICS OF LEAD
PHYS. LETT., V.28A, P.226-P.227 (1968)
PB ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES ..PSEU
DOPOTENTIAL CALCULATION
- 68-SC-06 SCHNEIDER, T./ STOLL, E.
LATTICE DYNAMICS AND ELECTRONIC STRUCTURE OF SODIUM, MA
GNESIUM AND ALUMINIUM
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.101-P.1
18 (1968)
NA/ MG/ AL ..THEORY/ LATTICE DYNAMICS ..ELECTRONIC STRU

CTURE/ METAL

- 68-SC-07 SCHOFIELD, P.
THE THEORY OF HIGH-FREQUENCY DENSITY FLUCTUATIONS IN LIQUIDS
- NEUTRON INELASTIC SCATTERING. IAEA, V.1, P.573-P.580 (1968)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING FUNCTION
- 68-SH-01 SHAH, P.N.
DETERMINATION OF THE VELOCITY OF HIGH-FREQUENCY SOUND IN LIQUID HE BY X-RAY SCATTERING
- PHYS. REV. LETT., V.20, P.1026-P.1028 (1968)
- HE ..LIQUID/ EXPERIMENT ..HE-3/ X-RAY SCATTERING/ HIGH-FREQUENCY-SOUND VELOCITY
- 68-SH-02 SHENK, C.H./ WIENER, E./ WECKERMANN, B./ KLEY, W.
DISAPPEARANCE OF VIBRATIONAL MODE IN FERROELECTRIC PHASE TRANSITION OF K₂H₂P₂O₄
- PHYS. REV., V.172, P.576 (1968)
- K₂H₂P₂O₄ ..INCOHERENT SCATTERING SPECTRA/ PHASE TRANSITION/ LATTIC VIBRATION
- 68-SH-03 SHIMIZU, H.
DEPENDENCE OF THE TIME-CORRELATION FUNCTIONS OF MOLECULAR RANDOM MOTIONS ON THE INTERMOLECULAR POTENTIAL
- J. CHEM. PHYS., V.48, P.2494 (1968)
- NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ FREQUENCY DISTRIBUTION/ CORRELATION FUNCTION/ LIQUID/ MOLECULAR DYNAMIC S/ STATISTICAL MECHANICS
- 68-SI-01 SINGWI, K.S./ SJOELANDER, A.
THEORY OF ATOMIC MOTIONS IN SIMPLE CLASSICAL LIQUIDS
- PHYS. REV., V.167, P.152 (1968)
- AR ..THEORY/ LIQUID/ PAIR DISTRIBUTION FUNCTION ..85.9D
- 68-SI-02 SINGWI, K.S./ SKOELD, K./ TOSI, M.P.
ZERO SOUND IN CLASSICAL LIQUIDS
- PHYS. REV. LETT., V.21, P.881 (1968)
- NEUTRON-SCATTERING-IN-FLUIDS/ AR ..THEORY/ LIQUID/ MOLECULAR DYNAMICS
- 68-SI-03 SINGWI, K.S.
ATOMIC MOTIONS IN LIQUIDS AND NEUTRON SCATTERING THEORY OF CONDENSED MATTER, IAEA, P.603-P.638 (1968)
- NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID DYNAMICS/ LECTURE NOTE
- 68-SI-04 SINHA, S.K.
- ELECTRON-PHONON INTERACTION AND PHONON DISPERSION RELATION USING THE AUGMENTED-PLANE-WAVE METHOD
- PHYS. REV., V.169, P.477 (1968)
- THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..METAL
- 68-SK-01 SKOELD, K.
EFFECTS OF MOLECULAR REORIENTATION IN SOLID METHANE ON THE QUASIELASTIC SCATTERING OF THERMAL NEUTRON
- J. CHEM. PHYS., V.49, P.2443 (1968)
- METHANE ..SCATTERING FUNCTION/ SOLID/ MOLECULAR DYNAMIC S/ THEORY ..22.1DK/ ORIENTATIONAL JUMP DIFFUSION MODEL
- 68-SL-01 SLAGGIE, E.L.
CENTRAL FORCE LATTICE DYNAMICAL MODEL FOR ZIRCONIUM HYDRIDE
- J. PHYS. CHEM. SOLIDS, V.29, P.923 (1968)
- ZR-H ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..ROOT SAMPLING METHOD
- 68-SL-02 SLAGGIE, E.L.
MULTIPLE SCATTERING IN NEUTRON DOUBLE DIFFERENTIAL CROSS SECTION MEASUREMENTS
- NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.311 (1968)
- H₂O/ ZR-H ..THEORY/ CROSS SECTION EVALUATION
- 68-SL-03 SLAGGIE, E.L.
CENTRAL FORCE LATTICE DYNAMICAL MODEL FOR URANIUM CARBIDE
- GA-8675 (1968)
- U.C ..THEORY/ SOLID/ LATTICE DYNAMICS/ CENTRAL-FORCE MODELS/ BORN-VON KARMAN MODEL/ FREQUENCY DISTRIBUTION/ IN THERMODYNAMIC FORCE CONSTANTS/ INCOHERENT APPROXIMATION ..SPECIFIC HEAT
- 68-SM-01 SMITH, H.G./ DOLLING, G./ NICKLOW, R.M./ VIJAYARAGHAVAN, P.R./ WILKINSON, M.K.
PHONON DISPERSION CURVES IN LITHIUM
- NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.149-P.155 (1968)
- LI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..98DK/ LI7/ 3-AXIS SPECTROMETER
- 68-SO-01 SOSNOWSKI, J./ BEDNARSKI, S./ CZACHOR, A.
PHONON DISPERSION RELATIONS IN BISMUTH
- NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.157-P.162 (1968)
- BI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ CONST-0
- 68-SP-01 SPREVAK, D./ KOPPEL, J.U./ YOUNG, J.A.

- SLOW NEUTRON SCATTERING AND THERMALIZATION BY BENZENE
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.437 (1968)
BENZENE ..THEORY/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIB
UTION/ CROSS SECTION EVALUATION
- 68-SP-02 SPREYAK, D./ BORGONOV, G.M./ NEILL, J.M./ CARRIVE
AN, G.W.
NEUTRON THERMALIZATION IN BENZENE
NUKLEONIK, V.11, P.233 (1968)
BENZENE ..SCATTERING FUNCTION/ LIQUID/ NEUTRON SPECTRUM
/ SCATTERING THEORY ..ROOM TEMPERATURE
- 68-ST-01 STAMENKOVICH, S.S.
SCATTERING OF SLOW NEUTRONS BY THE PROTONS IN HYDROGEN
BONDS USING THE DOUBLE-POTENTIAL-WELL MODEL
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.10, P
.675 (1968)
H ..DOUBLE-POTENTIAL-WELL/ HYDROGEN BOND ..SIGMA (THETA
.E)/ THEORY/ MOLECULAR DYNAMICS
- 68-ST-02 STECKI, J./ WOJNAR, R.
KINETIC EQUATION FOR THE SELF-CORRELATION FUNCTION G(R,
T) IN THE DILUTE BOLTZMANN GAS
CHEM. PHYS. LETT., V.2, P.343-P.345 (1968)
THEORY-OF-FLUIDS ..GAS/ THEORY/ CORRELATION FUNCTION
- 68-ST-03 STEINMAN, D.K./ SUMMERFIELD, G.C.
NEUTRON INCOHERENT SCATTERING FROM KDP
J. PHYS. CHEM. SOLIDS, V.30, P.449 (1968)
K.H2.P.04 ..INCOHERENT SCATTERING
- 68-ST-04 STOCKMEYER, R./ STILLER, H.
PHONONS, TORSONS, AND ROTATIONAL DIFFUSION IN ADAMANTAN
E
ADAMANTANE ..EXPERIMENT/ PHONON SPECTRUM/ FITTED BY CAL
CULATIONS
- 68-SU-01 SUGAWARA, A./ YIP, S./ SIROVICH, L.
KINETIC THEORY ANALYSIS OF LIGHT SCATTERING IN GASES
PHYS. REV., V.168, P.121-P.123 (1968)
SCATTERING-THEORIES ..GAS/ FREQUENCY SPECTRUM/ THEORY
.KINETIC-THEORY
- 68-SU-02 SUMMERFELD, G.C./ LURIE, N.A.
INELASTIC NEUTRON SCATTERING BY GASEOUS O2
J. CHEM. PHYS., V.49, P.890 (1968)
O ..SCATTERING FUNCTION/ EXPERIMENT/ THEORY/ GAS ..MAGN
ETIC SCATTERING/ ROOM TEMP.
- 68-SU-03 SUMMERFELD, G.C./ ZWEIFEL, P.F.
- QUASI-CLASSICAL APPROXIMATION FOR SCATTERING FROM MOLEC
ULES
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.283 (1968)
H.CL/ H.F ..SCATTERING THEORY
- 68-SV-01 SVENSSON, E.C./ BUYERS, W.L.
EXPERIMENTAL DIFFERENCE BETWEEN FIRST AND ZERO SOUND IN
K.BR
PHYS. REV., V.165, P.1063 (1968)
K.BR ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATIO
N ..3-AXIS-SPECTROMETER/ 95DK/ 463DK
- 68-SY-01 SYKES, J.
CO-OPERATIVE MODES OF MOTION IN A SIMPLE MODEL OF A LIQU
ID
PHYS. LETT., V.28A, P.208 (1968)
NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ SCATTERING LAW/
DISPERSION RELATION/ THEORY
- 68-TA-01 TAGLAUER, E.
SMALL ANGLE SCATTERING OF SUBTHERMAL NEUTRONS FROM DEFO
RMED POLYCRYSTALLINE COPPER
PHYS. STATUS SOLIDI, V.29, P.259-P.268 (1968)
CU/ SCATTERING-BY-DEFECTS ..EXPERIMENT/ SMALL ANGLE SCA
TTERING/ DISLOCATION IN COLD WORKED CRYSTALS
- 68-TA-02 TALHOUK, S.J./ HARRIS, P.M./ WHITE, D./ ERICKSON,
R.A.
SCATTERING OF THERMAL NEUTRONS BY LIQUID SOLUTIONS OF O
RTHO AND PARADEUTERIUM
J. CHEM. PHYS., V.48, P.1273 (1968)
D ..EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS ..20DK/ NEUT
RON DIFFRACTION/ RADIAL DISTRIBUTION FUNCTION
- 68-TA-03 TARINA, V.
STUDY OF THE SOLID-LIQUID TRANSITION IN CYCLOHEXANE BY C
OLD NEUTRONS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.501-P.5
06 (1968)
CYCLOHEXANE ..EXPERIMENT/ SIGMA(E)/ DIFFERENTIAL CROSS
SECTION ..SOLID-LIQUID TRANSITION/ -20DC-20DC
- 68-TH-01 THORSON, I.M.
THE SCATTERING LAW FOR VARIOUS REACTOR MATERIALS
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
V.1, P.373 (1968)
ZR-H/ U.02 ..SCATTERING FUNCTION/ EXPERIMENT/ SOLID ..D
IFFERENTIAL SCATTERING CROSS SECTION
- 68-TR-01 TREPADUS, V./ BALLY, D./ PARFENOV, V.A./ LIFOROV,
V.G.

- INELASTIC SCATTERING OF THERMAL NEUTRONS BY SOME BENZEN
E DERIVATIVES
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.483-P.4
90 (1968)
BENZENE ..EXPERIMENT/ MOLECULAR DYNAMICS
- 68-TR-02 TREVINO, S./ PRASK, H./ WALL, T./ YIP, S.
LATTICE DYNAMICS OF HYDROGEN-BONDED CRYSTALS
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.345-P.3
62 (1968)
H2.O/ H.CL ..THEORY/ LATTICE DYNAMICS ..HARMONIC SOLIDS
- 68-TR-03 TREVINO, S.F.
COMMENT ON MOLECULA DYNAMICS STUDY BY THE NEUTRON INELA
STIC SCATTERING METHOD, 5. S.C.(N.H2)2
PHYSICA, V.40, P.160 (1968)
UREA ..THEORY/ SOLID
- 68-TU-01 TUNKALO, E./ KUOPPAMAKI, R./ PALMGREN, A.
PHONONS IN LIQUID BISMUTH STUDIED BY NEUTRON INELASTIC
SCATTERING
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.431-P.4
37 (1968)
BI ..EXPERIMENT/ LIQUID/ SOLID/ DISPERSION RELATION ..2
80DC FOR LIQUID/ 262DC FOR SOLID
- 68-TU-02 TUNKALO, E./ BAJOREK, A./ NATKANIEC, I./ PARLINSKI
. K./ SUDNIK-HRYNKIEWICZ, M.
STUDY OF THE FREQUENCY DISTRIBUTION IN UNSTRETCHED AND
STRETCHED RUBBER BY NEUTRON INELASTIC SCATTERING
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.237-P.2
41 (1968)
RUBBER ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION
- 68-VA-01 VALENTINE, T.M.
COHERENT NEUTRON SCATTERING LENGTH OF 170
AERE-R-5770 (1968)
O ..EXPERIMENT ..USING U.O2 SINGLE CRYSTAL
- 68-VA-02 VAN-DIJK, C./ BERGSM, J.
LATTICE DYNAMICS OF ALFA-FE AND FE3-AL
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.233-P.2
40 (1968)
FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RE
LATION/ FREQUENCY DISTRIBUTION
- 68-VE-01 VERBLE, J.L./ WARREN, J.L./ YARNELL, J.L.
LATTICE DYNAMICS OF LITHIUM HYDRIDE
PHYS. REV., V.168, P.980-P.989 (1968)
LI.H ..EXPERIMENT/ PHONON DISPERSION/ LI-D/ MODEL ANALY
SIS/ FREQUENCY SPECTRUM
- 68-VE-02 VERDAN, G./ RUBIN, R./ KLEY, W.
THE DYNAMICS OF HYDROGEN IMPURITIES IN NIOBIUM AND VANA
DIUM
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.223-P.2
31 (1968)
V-H/ NB-H ..EXPERIMENT/ LATTICE DYNAMICS ..200DC
- 68-WA-01 WAGNER, M.
INVESTIGATION OF LATTICE DYNAMICS BY MEANS OF VIBRONIC
SPECTRA
Z. PHYS., V.214, P.78 (1968)
THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS
- 68-WA-02 WALMSLEY, S.H.
LATTICE VIBRATIONS AND ELASTIC CONSTANTS OF MOLECULAR C
RYSTALS IN PAIR POTENTIAL APPROXIMATION
J. CHEM. PHYS., V.48, P.1438 (1968)
C.O2 ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTR
IBUTION
- 68-WA-03 WARREN, J.L.
FURTHER CONSIDERATIONS ON SYMMETRY PROPERTIES OF THE NO
RMAL VIBRATIONS OF A CRYSTAL
REV. MOD. PHYS., V.40, P.38 (1968)
CS.CL/ MG ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY
PROPERTIES/ SPACE GROUP/ IRREDUCIBLE REPRESENTATION
- 68-WH-01 WHITTEMORE, W.L.
NEUTRON SCATTERING BY REACTOR GRADE GRAPHITE
NUCL. SCI. ENG., V.33, P.31-P.40 (1968)
GRAPHITE ..CROSS SECTION EVALUATION/ EXPERIMENT/ FREQUE
NCY DISTRIBUTION/ SCATTERING FUNCTION ..300DK
- 68-WH-02 WHITTEMORE, W.L.
INELASTIC THERMAL-NEUTRON SCATTERING BY LIQUID D2.O
NUCL. SCI. ENG., V.33, P.195-P.208 (1968)
D2.O ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXP
ERIMENT/ LIQUID ..300DK/ INCIDENT NEUTRON ENERGY 0.157-
0.1646EV
- 68-WH-03 WHITTEMORE, W.L.
AN INVESTIGATION OF THE POLYPEPTIDE, POLY-L-GLUTAMIC AC
ID, USING NEUTRON INELASTIC SCATTERING
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.175-P.1
84 (1968)
POLYPEPTIDE/ POLYGLUTAMIC ACID ..EXPERIMENT/ TOF/ FREQU
ENCY DISTRIBUTION
- 68-WI-01 WIGNALL, G.D./ EGELSTAFF, P.A.
THE TEMPERATURE DEPENDENCE OF CO-OPERATIVE MODES OF MOT
ION IN LIQUID LEAD

- J. PHYS., C, LONDON, V.1, P.519 (1968)
 PB ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION .,336-726D
 C
- 68-WJ-02 WIGNALL, G.D./ EGELSTAFF, P.A.
 CRITICAL OPALESCENCE IN BINARY LIQUID METAL MIXTURES, 1
 . TEMPERATUREDEPENDENCE
 J. PHYS., C, LONDON, V.1, P.1088 (1968)
 BI-GA/ BI-ZN ..CRITICAL PHENOMENA/ BINARY LIQUID METAL
- 68-WO-01 WOODS, A.D.B./ COWLEY, R.A.
 HIGH ENERGY EXCITATIONS IN LIQUID HELLIUM
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.609-P.6
 14 (1968)
 HE ..EXPERIMENT/ LIQUID/ TOF/ CONST.-0 .1.1DK-4.2DK
- 68-YA-01 YARNELL, J.L./ WARREN, J.L./ WENZEL, R.G./ DEAN, P
 J.
 LATTICE DYNAMICS OF GALLIUM PHOSPHIDE
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.301-P.3
 13 (1968)
 GA.P ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATIO
 N
- 68-YA-02 YARNELL, J.L./ WARREN, J.L./ WENZEL, R.G./ DEAN, P
 J.
 LATTICE DYNAMICS OF GALLIUM PHOSPHIDE
 LA-DC-9228 (1968)
 GA.P ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATIO
 N/ 3-AXIS SPECTROMETER/ SHELL MODEL FIT
- 68-YO-01 YOUNG, J.A.
 NEUTRON SCATTERING FROM MOLECULAR NITROGEN
 NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,
 V.1, P.303 (1968)
 N ..SCATTERING THEORY/ MOLECULAR DYNAMICS
- 68-ZE-01 ZEMLIYANOV, M.G./ MIRONOV, S.P./ SYRYKH, G.F.
 INVESTIGATION OF ADMIXED STATES IN VANADIUM ALLOYS
 NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.79-P.85
 (1968)
 V ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL MODE
- 68-ZE-02 ZERBI, G./ RISERI, L.
 DISPERSION CURVES AND FREQUENCY DISTRIBUTION OF ISOTACT
 IC POLYPROPYLENE
 J. CHEM. PHYS., V.49, P.3840 (1968)
 POLYPROPYLENE ..FREQUENCY DISTRIBUTION/ DIFFERENTIAL CR
 OSS SECTION/ CRYSTAL/ THEORY..F.G.METHOD/ ONE-PHONON AP
 PROXIMATION/ DISPERSION CURVE
- 68-ZY-01 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
- PROCEEDINGS OF THE SECOND CONFERENCE ON INELASTIC NEUTR
 ON SCATTERING IN SOLIDS AND LIQUIDS, TOKAI 1967
 JAERI-1157 (1968)
 REVIEW-ARTICLES ..DYNAMICS OF SOLIDS AND LIQUIDS
- 69-AG-01 AGRAWAL, A.K/ YIP, S.
 SLOW-NEUTRON SCATTERING BY MOLECULAR LIQUIDS
 NUCL. SCI. ENG., V.37, P.368 (1969)
 NEUTRON-SCATTERING-IN-FLUIDS ..CROSS SECTION EVALUATION
 / LIQUID ..MOLECULAR LIQUID
- 69-AL-01 ALIKHANOV, R.A./ DIMITRIJEVIC, Z./ KOWALSKA, A./ K
 RASNICKI, S./ RZANY, H./
 NEUTRON INVESTIGATION OF THE SPIN SYSTEM DYNAMICS IN AL
 PHA-CR2.O3
 PHYS. STATUS SOLIDI, V.32, P.41-P.48 (1969)
 CR2.O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERS
 ION RELATION/ ALPHA,CR2.O3/ 85DK/ FITTED TO FOUR EXCHA
 NGE INTEGRAL
- 69-AL-02 ALS-NIELSEN, J.
 STUDIES IN NEUTRON PHYSICS. 1. THERMAL NEUTRON BEAM STA
 NDARIZATION BY MEANS OF THE HE3(N,P)T REACTION, 2. THE
 ORDER-DISORDER TRANSITION BETA-BRASS STUDIED BY NEUTRON
 DIFFRACTION
 RISO-196 (1969)
 CU-ZN ..NEUTRON DIFFRACTION/SHORT RANGE ORDER PARAMETER
- 69-AN-01 ANDRIESE, C.D./ COMPAGNER, A./ HASMAN, A./ VAN-LO
 EF, J.J./ VAN-ZEVENBERGEN, F.
 INELASTIC NEUTRON SCATTERING BY AR (ISO, A-36) CLOSE TO
 CONDENSATION
 PHYS. LETT., A, V.28, P.642 (1969)
 AR ..EXPERIMENT/ GAS DYNAMICS
- 69-AU-01 AUGST, G.R./ ZHERNOV, A.P.
 VIBRATIONAL SPECTRUM OF A LATTICE CONTAINING ISOLATED I
 NTERSTITIAL IMPURITY ATOMS
 FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.11 (V
 .11), P.784-P.786 (P.634-P.635) (1969 (1969))
 THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ IMPURITY EFFECT
- 69-AX-01 AXE, J.D./ SHIRANE, G./ MUELLER, K.A.
 ZONE-BOUNDARY PHONON INSTABILITY IN CUBIC LA.AL.O3
 PHYS. REV., V.183, P.820-P.823 (1969)
 LA.AL.O3 ..EXPERIMENT/ PHONON DISPERSION/ PHASE TRANSIT
 ION/ PHONON INSTABILITY
- 69-AX-02 AXMANN, A./ BIEM, W./ BORSCH, P./ MOSSFELD, F./ ST
 ILLER, H.
 LATTICE DYNAMICS OF SOLID HYDROFLUORIC ACID

- DISCUSS. FARADAY SOC., V.48, P.69-P.77 (1969)
H.F. EXPERIMENT/ CALCULATION/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRA
- 69-BA-01 BASHER, J.C./ PULL, J.C.
AN INVESTIGATION OF A MONTE CARLO TREATMENT OF THERMAL NEUTRON SCATTERING
AEEW-M-730 (1969)
- SCATTERING-THEORIES. SCATTERING LAW. MONTE CARLO METHOD
- 69-BE-01 BEHARI, J./ TRIPATHI, B.B.
PHONON DISPERSION IN COPPER
PHYS. LETT., V.29A, P.313-P.314 (1969)
- CU. DISPERSION RELATION/ THEORY. MODIFIED ANGULAR FORCE CE MODEL/ ELECTRON-ION INTERACTION
- 69-BE-02 BEHARI, J./ TRIPATHI, B.B.
PHONON DISPERSION IN COPPER
PHYS. LETT., V.29A, P.313-P.314 (1969)
- CU. THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION. MODIFIED ANGULAR FORCE MODEL/ ELECTRON-ION INTERACTION
- 69-BL-01 BLAESSER, G./ PERETTI, J./ TOTH, G.
INELASTIC SCATTERING OF NEUTRONS BY LOCALIZED VIBRATIONS OF INTERSTITIAL HYDROGEN IN METAL LATTICES; CASE OF VANADIUM LATTICE
EUR-4216E, P.0-P.42 (1969)
- NEUTRON-SCATTERING-IN-SOLIDS/ V. THEORY/ HYDROGEN/ INTERSTITIAL. NUMERICALS
- 69-BL-02 BLAIN, J.F.
STRUCTURE OF SIMPLE LIQUID
CEA-R-3876, P.0-P.29 (1969)
- MISCELLANEOUS. STRUCTURE FACTOR/ LIQUID/ THEORY
- 69-BO-01 BOFFEY, T.B.
COMMENT ON TOYATA'S METHOD FOR OBTAINING THE PHONON FREQUENCIES IN MONOVALENT METALS
PHYS. LETT., V.29A, P.167 (1969)
- K/ RB. DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS. ELECTRON-PHONON INTERACTION/ EXCHANGE INTERACTION/ TOYA METHOD
- 69-BO-02 BOFFI, S./ CAGLIOTI, G.
LATTICE DYNAMICS BY NEUTRON SCATTERING PART 2
RT/FI(69)41 (1969)
- REVIEW-ARTICLES. LATTICE DYNAMICS
- 69-BO-03 BOFFI, S./ CAGLIOTI, G.
LATTICE DYNAMICS BY NEUTRON SCATTERING PART 1
RT/FI(69)28 (1969)
- REVIEW-ARTICLES. LATTICE DYNAMICS/ EXPERIMENT/ TOF
- 69-BO-04 BOFFI, S./ CAGLIOTI, G.
LATTICE DYNAMICS BY NEUTRON SCATTERING - PART 2
ENERG. NUCL. (MILAN), V.16, P.425-P.437 (1969)
- REVIEW-ARTICLES. LATTICE DYNAMICS/ IONIC CRYSTAL/ METALL/ FERROELECTRIC MATERIAL
- 69-BO-05 BOFFI, S./ CAGLIOTI, G.
LATTICE DYNAMICS BY NEUTRON SCATTERING - PART 1
ENERG. NUCL. (MILAN), V.16, P.369-P.377 (1969)
- REVIEW-ARTICLES. NEUTRON SPECTROSCOPY/ LATTICE DYNAMICS
- 69-BO-06 BORGONOV, G.M.
COHERENT SCATTERING LAW FOR POLYCRYSTALLINE BERYLLIUM
GA-9364 (1969)
- BE. CALCULATION/ COHERENT/ POLYCRYSTAL/ SCATTERING LAW
- 69-BO-07 BOYSTER, J.K./ MCMURRY, H.L./ SOLBRIG-JR, A.W./ MARTIN, R.M.
MACS C. A COMPUTING PROGRAM FOR CRYSTAL VIBRATIONS WHICH INCLUDES LONG-RANGE COULOMB INTERACTIONS
IN-1280 (1969)
- COMPUTER-CODES. THEORY/ SOLID/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANTS/ STRUCTURE FACTOR. VALENCE FORCE/ COULOMB INTERACTION
- 69-BU-01 BUTLAND, A.T.D.
HEXCOH, A PROGRAMME FOR COMPUTING COHERENT ELASTIC SCATTER FROM HEXAGONAL POLYCRYSTALS
AEEW-M954, P.0-P.15 (1969)
- COMPUTER-CODES. POLYCRYSTAL
- 69-BU-02 BUTLAND, A.T.D./ CHUDLEY, C.T.
A REVIEW OF THERMAL NEUTRON DIFFUSION DATA FOR HEAVY WATER AND ITS CONSEQUENCES FOR NEUTRON SCATTERING LAW DOD ELS.
AEEW-R-685 (1969)
- HEAVY WATER. TOTAL CROSS SECTION/ DIFFUSION COEFFICIENT
- 69-BU-03 BUYERS, W.J.L./ COWLEY, R.A.
CRYSTAL DYNAMICS OF POTASSIUM 2, THE ANHARMONIC EFFECTS
PHYS. REV., V.180, P.755-P.766 (1969)
- K. PHONON LIFETIME/ ANHARMONIC EFFECT/ EXPERIMENT/ THEORY. 9DK/ 92DK/ 215DK/ 299DK/ NEUTRAL-PSEUDOATOM APPROXIMATION
- 69-CA-01 CAGLIOTI, G./ CORCHIA, M./ RIZZI, G.
NEUTRON DIFFRACTION ANALYSIS OF LIQUID ZINC. 2

- NUOVO CIM., B, V.60, P.48-P.60 (1969)
ZINC ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION/ PAIR POTENTIAL
- 69-CA-02 CARBOTTE, J.P./ DYNES, R.C./ TROFIMENKOFF, P.N.
PHONON RENORMALIZATION OF THE ELECTRONIC EFFECTIVE MASS
CAN. J. PHYS., V.47, P.1107-P.1116 (1969)
THEORY-OF-SOLIDS ..FORCE CONSTANTS ARE TAKEN FROM EXPERIMENTAL DISPERSION CURVES. ELECTRON-PHONON INTERACTION IS TREATED WITH PSEUDOPOTENTIAL THEORY
- 69-CA-03 CARRIVEAU, G.W./ BORGONOV, G.M./ BEYSTER, J.R.
SINGLE DIFFERENTIAL CROSS SECTION OF ZIRCONIUM HYDRIDE AT EXTENDED TEMPERATURE
NUKLEONIK, V.12, P.143 (1969)
ZR-H ..SIGMA (THETA,E)/ SOLID ..750DK/ ROOMTEMPERATURE
- 69-CH-01 CHANG, Y.I./ SUMMERFIELD, G.C.
OBSERVATION OF OPTICAL MODES IN POLYETHYLENE BY NEUTRON SCATTERING
J. POLY. SCI., PART A-2, V.7, P.405 (1969)
POLYETHYLENE ..SOLID/ THEORY/ FREQUENCY DISTRIBUTION
- 69-CH-02 CHERNOPLKOV, N.A./ ZEMLYANOV, M.G./ SOMENKOV, V.A./ CHERTKOV, A.A.
STUDY OF THE DYNAMICS OF GROUP V TRANSITION-METAL HYDRIDES BY MEANS OF INELASTIC NEUTRON SCATTERING
FIZ. TVERD. TELA (SOV. PHYS. SOLID STATE), V.11 (V.11), P.2894-P.2901 (P.2343-2349) (1969 (1970))
V-H/ NB-H ..EXPERIMENT/ PHONON SPECTRA
- 69-CH-03 CHUNG, C./ YIP, S.
GENERACIZED HYDRODYNAMICS AND TIME CORRELATION FUNCTIONS
PHYS. REV., V.182, P.323-P.339 (1969)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CORRELATION FUNCTION/ LIQUID
- 69-CO-01 COCHRAN, W.
DYNAMICAL, SCATTERING AND DIELECTRIC PROPERTIES OF FERROELECTRIC CRYSTALS
ADVAN. PHYS., V.18, P.157-P.192 (1969)
NEUTRON-SCATTERING-IN-SOLIDS/ BA,II.03/ K.H2.P.04/ NA.N.02 ..THEORY/ DIELECTRIC/ CRITICAL SCATTERING/ LATTICE DYNAMICS
- 69-CO-02 COCKING, S.J.
ATOMIC MOTION IN LIQUID SODIUM 1. DIFFUSIVE MOTION
J. PHYS., C, LONDON, V.2, P.2047 (1969)
NA ..QUASI-ELASTIC PEAK/ TOF/ SCATTERING LAW/ MEAN SQUARE DISPLACEMENT/ EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER ..PROPORTIONAL COUNTER/ LIQUID METAL
- 69-CO-03 COLLINS, M.F./ HAYWOOD, B.C.
ATOMIC VIBRATIONS IN CARBON FIBRES
AERE-R-6000 (1969)
GRAPHITE ..EXPERIMENT/ DISPERSION CURVE ..ALONG C-AXIS
- 69-CO-04 COLLINS, M.F./ HAYWOOD, B.C.G.
ATOMIC VIBRATIONS IN CARBON FIBERS
CARBON, V.7, P.663 (1969)
C ..COHERENT INELASTIC SCATTERING/ CARBON FIBERS
- 69-CO-05 COPLEY, J.R.D./ MACPHERSON, R.W./ TIMUSK, T.
LATTICE DYNAMICS OF POTASSIUM CHLORIDE
PHYS. REV., V.182, P.965-P.972 (1969)
K.CL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRA/ DEBYE TEMP./ INELASTIC STRUCTURE FACTOR ..SHELL MODEL FITTING
- 69-CO-06 COWLEY, E.R./ DARBY, J.K./ PAWLEY, G.S.
THE LATTICE DYNAMICS OF TIN TELLURIDE
J. PHYS., C, LONDON, V.2, P.1916-P.1925 (1969)
SN,TE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..100DK
- 69-CO-07 COWLEY, E.R.
SYMMETRY PROPERTIES OF THE NORMAL MODES OF VIBRATIONS OF CALCITE AND (ALPHA)-CORUNDUM
CAN. J. PHYS., V.47, P.1381 (1969)
CALCITE/ CORUNDUM ..THEORY/ LATTICE DYNAMICS
- 69-CO-08 COWLEY, R.A./ SVENSSON, E.C./ BUYERS, W.J.L.
INTERFERENCE BETWEEN ONE-AND MULTIPHONON PROCESSES IN THE SCATTERING OF NEUTRONS AND X-RAYS BY CRYSTALS
PHYS. REV. LETT., V.23, P.525 (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY
- 69-CO-09 COWLEY, R.A./ BUYERS, W.J.L./ DOLLING, G.
RELATIONSHIP OF NORMAL MODES OF VIBRATION OF STRONTIUM TITANATE AND ITS ANTIFERROELECTRIC PHASE TRANSITION AT 110 DEG.K.
SOLID STATE COMMUN., V.7, P.181 (1969)
SR.TI.03 ..PHASE TRANSITION/ LATTICE VIBRATION
- 69-DE-01 DE-GRAAF, L.A.
STUDY OF MOLECULAR MOTIONS IN CYCLOHEXANE AND CYCLOPENTANE BY COLD-NEUTRON SCATTERING
PHYSICA, V.40, P.497 (1969)
CYCLOHEXANE ..LIQUID/ SOLID/ EXPERIMENT/ TIME OF FLIGHT ..HINDERED ROTATION OF RIGID MOLECULE/ ROTATIONAL JUMP / QUASIELASTIC PEAK/ ROTATING CRYSTAL
- 69-DE-02 DESAI, R.C./ YIP, S.
INELASTIC SCATTERING OF THERMAL NEUTRONS BY LIQUID SODIUM

- UM AND LEAD
PHYS. REV., V.180, P.299 (1969)
NA/ PB ..THEORY/ LIQUID/ SCATTERING FUNCTION ..LIQUID M
ETAL
- 69-DJ-01 DICKEY, J.M./ PASKIN, A.
COMPUTER SIMULATION OF THE LATTICE DYNAMICS OF SOLIDS
PHYS. REV., V.188, P.1407 (1969)
COMPUTER-CODES ..THEORY/ SOLID/ LATTICE DYNAMICS/ MOLEC
ULAR DYNAMICS/ ANHARMONICITY
- 69-DR-01 DREXEL, W./ GLAESER, W./ GOMPF, F.
PHONON DISPERSION IN SILVER
PHYS. LETT., V.28A, P.531-P.532 (1969)
AG ..DISPERSION RELATION/ BORN-VON KARMAN MODEL/ EXPERI
MENT ..ROOM TEMPERATURE/ PSEUDORANDOM NEUTRON TOF
- 69-DU-01 DURIG, J.R./ ANTION, D.J.
LOW-FREQUENCY VIBRATIONS IN AMMONIUM IODIDE AND AMMONIU
M BROMIDE
J. CHEM. PHYS., V.51, P.3639 (1969)
N.H4.I ..SOLID/ EXPERIMENT ..RAMAN SPECTRA/ FAR INFRARE
D SPECTRA
- 69-ED-01 EDER, O.J.
THE ZERO PLACZEK MOMENT AND THE N-PHONON CROSS-SECTION
AERE-TRANS-1137 (1969)
SCATTERING-THEORIES ..THEORY/ PHONON EXPANSION/ MULTI-P
HONON CONTRIBUTION
- 69-ES-01 ESCH, L.J./ YEATER, M.L./ MOOR, W.E./ SEEMANN, K.W
THE TEMPERATURE DEPENDENCE OF NEUTRON INELASTIC SCATTER
ING FROM WATER
RPI-328-210 (1969)
H2.O ..EXPERIMENT/ DOUBLE DIFFERENTIAL SCATTERING CROSS
SECTION/ 27.170,270DC/ LINAC TOF
- 69-FE-01 FELDKAMP, L.A./ VENKATARAMAN, G./ KING, J.S.
LATTICE DYNAMICS OF CUBIC ZINC SULFIDE
SOLID STATE COMMUN., V.7, P.1571-P.1573 (1969)
ZN.S ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES
..CONST.-0/ SIX-PARAMETER VALENCE FORCE MODEL
- 69-FE-02 FELDKAMP, L.A./ KING, J.S.
NEUTRON SCATTERING IN DEUTERATED POLYETHYLENE
MOL. DYN. AND STRUCT. OF SOLIDS, P.543 (1969)
POLYETHYLENE ..CRYSTAL DYNAMICS/ POLYMER
- 69-FE-03 FERNANDEZ, J.F./ GERSCH, H.A.
INELASTIC NEUTRON SCATTERING FROM LIQUID HELIUM IN ITS
GROUND STATE
- HE ..GROUND STATE/ THEORY ..ENERGY WIDTH OSCILLATION
- 69-FI-01 FISCHER, C.O.
MICRODYNAMIC BEHAVIOUR OF HYDROGENOUS LIQUIDS BY CROSS
SECTION MEASUREMENTS WITH COLD NEUTRONS
PHYS. LETT., V.30A, P.393-P.394 (1969)
BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEX
ANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC ACID/ GLYCELINE
/ METHYL IODIDE ..EXPERIMENT/ MOLECULAR DYNAMICS/ TOTAL
SCATTERING CROSS SECTION
- 69-FU-01 FULINSKI, A./ JANIK, J./ BLOCKI, J.
MOLECULAR INTERACTION EFFECT IN NEUTRON SCATTERING BY G
ASEOUS METHANE
INP-677/PL (1969)
METHANE ..THEORY/ MOLECULAR INTERACTION
- 69-GA-01 GARCIA-COLIN, L.S./ KOO, M.L.
BEHAVIOUR OF THE PAIR CORRELATION FUNCTION IN THE CRITI
CAL REGION
PHYS. LETT., V.29A, P.688-P.689 (1969)
THEORY-OF-SOLIDS ..CRITICAL BEHAVIOUR/ SCALING LAW
- 69-GI-01 GILAT, G.
ON ACCIDENTAL DEGENERACIES OF PHONONS IN MONATOMIC CUBI
C CRYSTALS
SOLID STATE COMMUN., V.7, P.567-P.569 (1969)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..ACCIDENTAL DEGENE
RACIES/ CUBIC CRYSTAL
- 69-GI-02 GILAT, G./ RIZZI, G./ CUBIOTTI, G.
LATTICE DYNAMICS OF HCP METALS COMPUTED FROM AN OPTIMUM
-MODEL POTENTIAL
PHYS. REV., V.185, P.971-P.983 (1969)
BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE
..METAL/ MODEL POTENTIAL CALCULATION
- 69-GI-03 GILLIS, N.S.
SOFT PHONON MODE IN SE,TE
PHYS. REV. LETT., V.22, P.1251 (1969)
SE,TE ..THEORY/ SOLID
- 69-GO-01 GOVINDARAJAN, J./ HARIDASAN, T.M.
LATTICE VIBRATIONS IN ALKALI AZIDES
PHYS. LETT., V.28A, P.701-P.702 (1969)
K.N3/ RB.N3/ CS.N3 ..THEORY/ LATTICE VIBRATION ..RIGID
ION MODEL/ BODY CENTERED TETRAGONAL
- 69-GY-01 GYORFFY, B.L./ MARCH, N.H.
INTERMEDIATE SCATTERING FUNCTION AND ATOMIC TRANSPORT I
N LIQUID METALS

- J. PHYS. CHEM, LIQUIDS, V.1, P.253-P.263 (1969)
NEUTRON-SCATTERING-IN-FLUIDS/ THEORY-OF-FLUIDS ..INTERMEDIATE SCATTERING FUNCTION/ LIQUID
- 69-HA-01 HALLMAN, E.D./ BROCKHOUSE, B.N.
CRYSTAL DYNAMICS OF NICKEL-IRON AND COPPER-ZINC ALLOYS
CAN. J. PHYS., V.47, P.1117-P.1131 (1969)
NI-FE/ CU-ZN ..DISPERSION RELATION/ CONSTANT- θ METHOD/
FREQUENCY DISTRIBUTION ..FCC ALLOY/ 296DK/ 573DK
- 69-HA-02 HAMILTON, W.C./ EDMONDS, J.W./ TIPPE, A./ KUSH, J.
METHYL GROUP ROTATION AND THE LOW TEMPERATURE TRANSITION
IN HEXAMETHYLBENZENE
DISCUSS. FARADAY SOC., V.48, P.192-P.204 (1969)
HEXAMETHYLBENZENE ..EXPERIMENT/ TOF SPECTRUM/ NEUTRON DIFFRACTION
- 69-HA-03 HARDY, J.K./ KARO, A.M./ MORRISON, I.W./ SENNETT,
C.T./ RUSSEL, J.P.
LATTICE DYNAMICS AND SECOND-ORDER RAMAN SPECTRUM OF NaF
PHYS. REV., V.179, P.837 (1969)
NaF ..LATTICE DYNAMICS/ THEORY/ EXPERIMENT ..RAMAN SPECTRUM/ 300DK
- 69-HA-04 HARIDASAN, T.M./ GOVINDARAJAN, J.
LATTICE DYNAMICS OF HEXAGONAL ICE
CHEM. PHYS. LETT., V.4, P.11-P.12 (1969)
H2-O ..THEORY/ PHONON SPECTRA/ ICE
- 69-HA-05 HARLING, O.K.
SLOW NEUTRON INELASTIC SCATTERING STUDY OF LIGHT WATER
AND ICE
J. CHEM. PHYS., V.50, P.5279 (1969)
H2-O ..SCATTERING LAW/ FREQUENCY DISTRIBUTION
- 69-HA-06 HAYWOOD, B.C.G./ COLLINS, M.F.
LATTICE DYNAMICS OF MN₂O
J. PHYS., C. LONDON, V.2, P.46-P.51 (1969)
MN₂O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
N ..CONST- θ / RIGID-ION AND SHELL MODEL FIT
- 69-HE-01 HENRY, A.W./ SAFFORD, G.J.
STUDY OF LOW-FREQUENCY MOLECULAR MOTIONS IN POLYDIMETHYLSILOXANE POLYMERS BY NEUTRON INELASTIC SCATTERING
J. POLY. SCI., PART A-2, V.7, P.433-P.462 (1969)
POLYDIMETHYLSILOXANE ..EXPERIMENT/ MOLECULAR DYNAMICS/
LATTICE DYNAMICS ..25DC/ -123DC
- 69-HO-01 HODGES, C.H.
THEORY OF PHONON DISPERSION CURVES IN SILICON CARBIDE
PHYS. REV., V.187, P.994 (1969)
OLYPTYPES
S.I.C ..THEORY/ SOLID/ LATTICE DYNAMICS
- 69-HO-02 HOEGBERG, T./ SANDSTROEM, R.
AUHARMONIC EFFECTS ON PHONONS IN ALUMINIUM
PHYS. STATUS SOLIDI, V.33, P.169-P.173 (1969)
AL ..THEORY/ PHONON FREQUENCY SHIFT AND DAMPING
- 69-HU-01 HUBBARD, J./ BEEBY, J.L.
COLLECTIVE MOTION IN LIQUIDS
J. PHYS., C. LONDON, V.2, P.556 (1969)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID
- 69-HU-02 HUELLER, A.
SOFT PHONON DISPERSION IN BaTiO₃
Z. PHYS., V.220, P.145-P.158 (1969)
BaTiO₃ ..THEORY/ LATTICE DYNAMICS/ PHASE TRANSITION ..SOFT OPTICAL MODE
- 69-IC-01 ICHIKAWA, K./ SHIMOJI, M.
SELF-DIFFUSION IN LIQUID METALS
PHIL. MAG., V.20, P.341 (1969)
LI/ NA/ K/ HG/ PB ..DIFFUSION PARAMETER/ LIQUID/ THEORY ..LIQUID METAL/ FRICTION CONSTANT
- 69-IV-01 IVANITSKII, P.G./ KROTENKO, V.T./ GORBACHEV, B.I./
TSIBULNIK, A.N.
STUDY OF INELASTIC SCATTERING OF SLOW NEUTRON BY POLYETHYLENE AT TEMPERATURES 290 AND 100 K
UKRAINIAN PHYS. J., V.14, P.1525 (1969)
POLYETHYLENE ..FREQUENCY SPECTRA
- 69-JA-01 JAISWAL, V.K./ SHARMA, P.K.
INELASTIC SCATTERING CROSS SECTION OF NEUTRONS IN FERROELECTRICS
PHYSICA, V.44, P.69-P.80 (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ ONE-PHONON COHERENT CROSS SECTION ..DOUBLE-TIME GREEN FUNCTIONS
- 69-JA-02 JANIK, J.A./ JAKOB, W./ JANIK, J.M.
LATTICE-MOLECULAR VIBRATIONS IN COMPLEXES CO.(N₂H₃)₆.12 AND NI.(N₂H₃)₆.12
INP-690/PL (1969)
CO.(N₂H₃)₆.12/ NI.(N₂H₃)₆.12 ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION
- 69-JA-03 JANIK, J.A./ OTNES, K./ SOLT, G./ KOSALY, G.
LATTICE VIBRATIONS AND MOLECULAR ROTATION IN SOLID METHANE NEAR THE MELTING POINT
DISCUSS. FARADAY SOC., V.48, P.87-P.92 (1969)
METHANE ..EXPERIMENT/ SPECTRUM AGAINST WAVELENGTH/ SOLID

D

- 69-JA-04 JANIK, J.A./ OTNES, K./ SOLT, G./ KOSALY, G.
LATTICE VIBRATIONS AND MOLECULAR ROTATION IN SOLID METH
ANE NEAR THE MELTING POINT
DISCUSS, FARADAY SOC., V.48, P.87-P.92 (1969)
C.H4 ..EXPERIMENT/ TOF SPECTRA
- 69-JH-01 JHONSON, R./ WESTIN, A.
ON PHONONS IN SIMPLE METALS 2. CALCULATED DISPERSION CU
RVES IN ALUMINIUM
AE-365 (1969)
- 69-KL-01 KLEMENS, P.G./ LIPSCHULTZ, F.P.
NEUTRON LINE-WIDTH OF LONGITUDINAL PHONON IN SOLID HELI
UM
PHYS, LETT., V.30A, P.127-P.128 (1969)
HE ..SOLID/ THEORY
- 69-KO-01 KOSALY, G./ VALKO, J.
REMARKS ON THE CALCULATION OF SLOW-NEUTRON CROSS SECTIO
N AND THERMAL SPECTRA IN WATER
NUKLEONIK, V.12, P.237-P.240 (1969)
H2.O ..THEORY/ CROSS SECTION EVALUATION
- 69-KR-01 KREBS, K./ HOELZL, K.
INELASTIC NEUTRON SCATTERING AND LATTICE DYNAMICS OF ME
TALS IN QUASI-ION APPROXIMATION
EUR-3621E-PART 2 (1969)
LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES .
PSEUD-ION APPROXIMATION/ FITTING TO EXPERIMENTAL DISPE
RSION CURVES/ FREQUENCY SPECTRUM/ SPECIFIC HEAT
- 69-KR-02 KRIVOGLAZ, M.A.
THEORY OF X-RAY AND THERMAL-NEUTRON SCATTERING BY REAL
CRYSTAL (TRANSLATED FROM RUSSIAN)
PLENUM PRESS, NEW YORK (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..BOOK
- 69-KU-01 KUSCER, I./ SUMMERFIELD, G.C.
SYMMETRIES IN SCATTERING OF SLOW NEUTRON
PHYS, REV., V.188, P.1445-P.1449 (1969)
SCATTERING-THEORIES ..DETAILED-BALANCE/ THEORY
- 69-LA-01 LAKATOS, K./ KRUMHANSL, J.A.
EFFECT OF FORCE-CONSTANT ON THE COHERENT NEUTRON SCATTE
RING FROM FACE-CENTERED CUBIC CRYSTALS WITH POINT DEFEC
TS
PHYS, REV., V.180, P.729-P.738 (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..POINT-DEFECTS/ THEORY
- 69-LA-02 LAGARDE, V./ PRASK, H./ TREVINO, S.
VIBRATIONS IN TEFLON
DISCUSS, FARADAY SOC., V.48, P.15-P.18 (1969)
TEFLON ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE
- 69-LE-01 LEADBETTER, A.J.
INELASTIC COLD NEUTRON SCATTERING FROM DIFFERENT FORMS
- 69-JA-04 JANIK, J.A./ OTNES, K./ SOLT, G./ KOSALY, G.
LATTICE VIBRATIONS AND MOLECULAR ROTATION IN SOLID METH
ANE NEAR THE MELTING POINT
DISCUSS, FARADAY SOC., V.48, P.87-P.92 (1969)
C.H4 ..EXPERIMENT/ TOF SPECTRA
- 69-JH-01 JHONSON, R./ WESTIN, A.
ON PHONONS IN SIMPLE METALS 2. CALCULATED DISPERSION CU
RVES IN ALUMINIUM
AE-365 (1969)
- 69-KO-01 KOSALY, G./ VALKO, J.
REMARKS ON THE CALCULATION OF SLOW-NEUTRON CROSS SECTIO
N AND THERMAL SPECTRA IN WATER
NUKLEONIK, V.12, P.237-P.240 (1969)
H2.O ..THEORY/ CROSS SECTION EVALUATION
- 69-KR-01 KREBS, K./ HOELZL, K.
INELASTIC NEUTRON SCATTERING AND LATTICE DYNAMICS OF ME
TALS IN QUASI-ION APPROXIMATION
EUR-3621E-PART 2 (1969)
LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES .
PSEUD-ION APPROXIMATION/ FITTING TO EXPERIMENTAL DISPE
RSION CURVES/ FREQUENCY SPECTRUM/ SPECIFIC HEAT
- 69-KR-02 KRIVOGLAZ, M.A.
THEORY OF X-RAY AND THERMAL-NEUTRON SCATTERING BY REAL
CRYSTAL (TRANSLATED FROM RUSSIAN)
PLENUM PRESS, NEW YORK (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..BOOK
- 69-KU-01 KUSCER, I./ SUMMERFIELD, G.C.
SYMMETRIES IN SCATTERING OF SLOW NEUTRON
PHYS, REV., V.188, P.1445-P.1449 (1969)
SCATTERING-THEORIES ..DETAILED-BALANCE/ THEORY
- 69-LA-01 LAKATOS, K./ KRUMHANSL, J.A.
EFFECT OF FORCE-CONSTANT ON THE COHERENT NEUTRON SCATTE
RING FROM FACE-CENTERED CUBIC CRYSTALS WITH POINT DEFEC
TS
PHYS, REV., V.180, P.729-P.738 (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..POINT-DEFECTS/ THEORY
- 69-LA-02 LAGARDE, V./ PRASK, H./ TREVINO, S.
VIBRATIONS IN TEFLON
DISCUSS, FARADAY SOC., V.48, P.15-P.18 (1969)
TEFLON ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE
- 69-LE-01 LEADBETTER, A.J.
INELASTIC COLD NEUTRON SCATTERING FROM DIFFERENT FORMS
- 69-JA-04 JANIK, J.A./ OTNES, K./ SOLT, G./ KOSALY, G.
LATTICE VIBRATIONS AND MOLECULAR ROTATION IN SOLID METH
ANE NEAR THE MELTING POINT
DISCUSS, FARADAY SOC., V.48, P.87-P.92 (1969)
C.H4 ..EXPERIMENT/ TOF SPECTRA
- 69-JH-01 JHONSON, R./ WESTIN, A.
ON PHONONS IN SIMPLE METALS 2. CALCULATED DISPERSION CU
RVES IN ALUMINIUM
AE-365 (1969)
- 69-KO-01 KOSALY, G./ VALKO, J.
REMARKS ON THE CALCULATION OF SLOW-NEUTRON CROSS SECTIO
N AND THERMAL SPECTRA IN WATER
NUKLEONIK, V.12, P.237-P.240 (1969)
H2.O ..THEORY/ CROSS SECTION EVALUATION
- 69-KR-01 KREBS, K./ HOELZL, K.
INELASTIC NEUTRON SCATTERING AND LATTICE DYNAMICS OF ME
TALS IN QUASI-ION APPROXIMATION
EUR-3621E-PART 2 (1969)
LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES .
PSEUD-ION APPROXIMATION/ FITTING TO EXPERIMENTAL DISPE
RSION CURVES/ FREQUENCY SPECTRUM/ SPECIFIC HEAT
- 69-KR-02 KRIVOGLAZ, M.A.
THEORY OF X-RAY AND THERMAL-NEUTRON SCATTERING BY REAL
CRYSTAL (TRANSLATED FROM RUSSIAN)
PLENUM PRESS, NEW YORK (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..BOOK
- 69-KU-01 KUSCER, I./ SUMMERFIELD, G.C.
SYMMETRIES IN SCATTERING OF SLOW NEUTRON
PHYS, REV., V.188, P.1445-P.1449 (1969)
SCATTERING-THEORIES ..DETAILED-BALANCE/ THEORY
- 69-LA-01 LAKATOS, K./ KRUMHANSL, J.A.
EFFECT OF FORCE-CONSTANT ON THE COHERENT NEUTRON SCATTE
RING FROM FACE-CENTERED CUBIC CRYSTALS WITH POINT DEFEC
TS
PHYS, REV., V.180, P.729-P.738 (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..POINT-DEFECTS/ THEORY
- 69-LA-02 LAGARDE, V./ PRASK, H./ TREVINO, S.
VIBRATIONS IN TEFLON
DISCUSS, FARADAY SOC., V.48, P.15-P.18 (1969)
TEFLON ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE
- 69-LE-01 LEADBETTER, A.J.
INELASTIC COLD NEUTRON SCATTERING FROM DIFFERENT FORMS
- 69-KA-02 KAMITAKAHARA, W.A./ BROCKHOUSE, B.N.
CRYSTAL DYNAMICS OF SILVER
PHYS, LETT., V.29A, P.639-P.640 (1969)
AG ..DISPERSION RELATION/ EXPERIMENT/ CONSTANT-0 METHOD
..ROOM TEMPERATURE
- 69-KA-03 KARO, A.M./ HARDY, J.R.
LATTICE DYNAMICS OF NaF
PHYS, REV., V.181, P.1272-P.1277 (1969)
NA.F ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ F
REQUENCY SPECTRA ..RIGID-ION MODEL/ DEFORMATION-DIPOLE
MODEL/ DEBYE TEMP.
- 69-KI-01 KING-3RD, W.F./ CUTLER, P.H.
PHONON DISPERSION-RELATIONS IN BERYLLIUM CALCULATED FRO
M A PSEUDOPOTENTIAL APPROACH
SOLID STATE COMMUN., V.7, P.295 (1969)
BE ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMI
CS ..PSEUDOPOTENTIAL/ PHONON/ METAL
- 69-KI-02 KIROUAC, G.J./ JERNOV, S.K./ MOORE, W.E./ ESCH, L.

- OF SILICA
 J. CHEM. PHYS., V.51, P. 779-P.786 (1969)
 SILICA/ QUARTZ/ CRISTOBALITE ..EXPERIMENT/ COLLECTIVE V
 IBRATION/ AMORPHOUS SOLID ..TOF/ SILICA/ QUARTZ/ CRISTO
 BALITE
- 69-LE-02 LEAKE, J.A./ MINKIEWICZ, V.J./ SHIRANE, G.
 PHONON DISPERSION RELATIONS FOR HOLMIUM
 SOLID STATE COMMUN., V.7, P.535 (1969)
 HO ..DISPERSION RELATION/ TRIPLE AXIS SPECTROMETER/ LAT
 TICE DYNAMICS ..295DK/ PARAMAGNETIC HO
- 69-LE-03 LEAKE, J.A./ DANIELS, W.B./ SKALYO-JR, J./ FRAZER,
 B.C./ SHIRANE, G.
 LATTICE DYNAMICS OF NEON AT TWO DENSITIES FROM COHERENT
 INELASTIC NEUTRON SCATTERING
 PHYS. REV., V.181, P.1251-P.1260 (1969)
 NE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RE
 LATION ..4.7DK/ 25DK/ TRIPLE-AXIS-SPECTROMETER
- 69-LE-04 LEATH, P.L./ GOODMAN, B.
 FREQUENCY SPECTRA IN DISORDERED ALLOYS. AN INTERPOLATIO
 N FORMULA
 PHYS. REV., V.181, P.1062-P.1069 (1969)
 THEORY-OF-SOLIDS ..FREQUENCY SPECTRUM/ THEORY/ GREEN FU
 NCTION
- 69-LE-05 LEBOWITZ, J.L./ PERCUS, J.K./ SYKES, J.
 KINETIC APPROACH TO TIME-DEPENDENT CORRELATION FUNCTION
 S
 PHYS. REV., V.188, P.487 (1969)
 THEORY-OF-FLUIDS ..THEORY/ CORRELATION FUNCTION
- 69-MA-01 MAELAND, A.J.
 TERNARY HYDRIDES POSSESSING THE CUBIC PEROVSKITE STRUCT
 URE, 2. VIBRATION SPECTRA BY THE INELASTIC SCATTERING O
 F COLD NEUTRONS
 J. CHEM. PHYS., V.51, P.2915-P.2919 (1969)
 BA-LI-H/ SR-LI-H ..EXPERIMENT/ SPECTRAL DENSITY ..PEROV
 SKITE STRUCTURE/ BA-LI-H3/ SR-LI-H3
- 69-MA-02 MARADUDIN, A.A./ OITMAA, J.
 LONGITUDINAL AND TRANSVERSE LOCALIZED VIBRATION MODES
 SOLID STATE COMMUN., V.7, P.1143 (1969)
 THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..IM
 PURITY VIBRATION
- 69-MA-03 MARSDEN, R.S.
 THE CALCULATED NORMAL FREQUENCIES AND NEUTRON SCATTERIN
 G LAW FOR BENZENE
 IN-1269 (1969)
 BENZENE ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING LAW
- 69-MA-04 MATSUURA, H./ MIYAZAWA, T.
 FREQUENCY DISTRIBUTION AND NEUTRON SCATTERING OF POLYET
 HYLENE GLYCOL CHAIN
 J. CHEM. PHYS., V.50, P.915 (1969)
 POLYETHYLENE ..FREQUENCY DISTRIBUTION/ MOLECULAR DYNAMI
 CS/ THEORY/ DISPERSION RELATION
- 69-MC-01 McDONALD, D.L./ ELCOMBE, M.M./ PRYOR, A.W.
 PHONON DISPERSION CURVES FOR ZINC
 J. PHYS., C, LONDON, V.2, P.1857-P.1866 (1969)
 ZINC ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATIO
 N/ CONST.-@ METHOD
- 69-ME-01 MEISTER, H./ SKALYO, J./ FRAZER-JR, B.C./ SHIRANE,
 G.
 LATTICE-DYNAMICAL ASPECTS OF THE ANTIFEROELECTRIC PHASE
 TRANSITION IN (N,D4).D2.P.04
 PHYS. REV., V.184, P.550 (1969)
 N.H4.H2.P.04 ..EXPERIMENT/ SOLID ..QUASI-ELASTIC NEUTRO
 N SCATTERING / TEMPERATURE DEPENDENT FREQUENCY DISTRIBU
 TION
- 69-ME-02 METZBOWER, E.A.
 DISPERSION RELATIONS FOR HEXAGONAL CLOSED-PACKED CRYSTA
 L LATTICES
 PHYS. REV., V.177, P.1139 (1969)
 BE/ MG/ ZN ..DISPERSION RELATION/ THEORY/ SOLID/ LATTIC
 E DYNAMICS ..NONCENTRAL-FORCE/ FIVE FORCE CONSTANTS
- 69-MI-01 MILLINGTON, A.J./ SQUIRES, G.L.
 MEASUREMENTS OF THE FREQUENCIES OF THE NORMAL MODES OF
 ZINC
 J. PHYS., C, LONDON, V.2, P.2366 (1969)
 ZN ..DISPERSION RELATION
- 69-MI-02 MINKIEWICZ, V.J./ SHIRANE, G.
 SOFT PHONON MODES IN K.MN.F3
 J. PHYS. SOC. JAP., V.26, P.674-P.680 (1969)
 K.MN.F3 ..EXPERIMENT/ DISPERSION RELATION/ TEMPERATURE
 DEPENDENCE
- 69-MO-01 MONTGOMERY, H.
 THE SYMMETRY OF LATTICE VIBRATIONS IN THE ZINCBLLENDE AN
 D DIAMOND STRUCTURES
 PROC. ROY. SOC., LONDON, SER. A, V.309, P.521 (196
 9)
 ZN.S/ DIAMOND/ SR.TI.03 ..GROUP THEORY/ LATTICE VIBRATI
 ON ..SYMMETRY PROPERTIES
- 69-MO-02 MOORE, W.E./ KIROUAC, G.J./ ESCH, L.J./ SEEMANN, K
 W./ YEATER, M.L.

EPITHERMAL NEUTRON INELASTIC SCATTERING BY POLYETHYLENE
MOL. DYN. AND STRUCT. OF SOLIDS, P.547 (1969)
POLYETHYLENE ..FREQUENCY SPECTRA

69-MO-03 MORLEY, G.L./ KLIWER, K.L.
LATTICE DYNAMICS OF HCP HE3 AND HE4 AT HIGH PRESSURES
PHYS. REV., V.180, P.245 (1969)
HE ..DISPERSION RELATION/ THEORY/ FREQUENCY DISTRIBUTIO
N/ SOLID ..SOUND VELOCITY/ SELF-CONSISTENT METHOD

69-MO-04 MOZER, B./ PRICE, D.L./ KEATING, D.T./ MEISTER, H.
INCOHERENT NEUTRON SCATTERING FROM LIQUID AND SOLID CU-
NI
PHYS. LETT., V.30A, P.206-P.207 (1969)
CU-NI ..LIQUID/ SOLID/ EXPERIMENT/ ..NEAR THE MELT

69-NE-01 NELKIN, M.
THE ABC GUIDE TO THEORIES ON NEUTRON INELASTIC SCATTERI
NG BY LIQUIDS
AERE-R-6277 (1969)
NEUTRON-SCATTERING-IN-FLUIDS ..LIQUID/ THEORY/ CORRELAT
ION FUNCTION/ STATISTICAL MECHANICS ..RPA/ MEMORY FUNCTI
ON/ SUSCEPTIBILITY

69-NE-02 NELKIN, M.
EFFECTIVE-FIELD APPROXIMATION IN CLASSICAL LIQUIDS
PHYS. REV., V.138, P.349-P.350 (1969)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY

69-NU-01 NUSIMOVICI, M.A.
NORMAL MODES OF LATTICE VIBRATION ON BERYLLIUM OXIDE
COMP. REND., V.268, P.755 (1969)
BE.O ..THEORY

69-OI-01 OITMAA, J./ MARADUDIN, A.A.
LATTICE DYNAMICS OF CRYSTALS WITH EXTENDED POINT DEFECT
S
SOLID STATE COMMUN., V.7, P.1371-P.1377 (1969)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ IMPERFECT CRYSTAL
..CRYSTAL WITH EXTENDED POINT DEFECTS

69-OR-01 ORTOLEVA, P.O./ NELKIN, M.
FLUCTUATIONS OF THE SINGLE-PARTICLE DISTRIBUTION FUNCTI
ON IN CLASSICAL FLUIDS
PHYS. REV., V.181, P.429-P.437 (1969)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID ..AUTO-CO
RRELATION FUNCTION/ SINGLE PARTICLE DISTRIBUTION

69-PA-01 PAGE, D.I./ EGELSTAFF, P.A./ ENDERBY, J.E./ WINGFI
ELD, B.R.
ATOMIC OVERLAP IN THE LIQUID STATE
PHYS. LETT., V.29A, P.296-P.297 (1969)

AR/ RB ..LIQUID/ STRUCTURE FACTOR

69-PA-02 PARLINSKI, K.
LATTICE DYNAMICS OF AMMONIUM CHLORIDE
ACTA PHYS. POL., V.35, P.223 (1969)
N.H4.CL ..THEORY

69-PA-03 PAWLEY, G.S.
MOLECULAR CRYSTAL PHONON DISPERSION CURVES AND MODEL FI
TTING
DISCUSS. FARADAY SOC., V.48, P.125-P.130 (1969)
C6.H12.N4 ..THEORY/ MODEL FITTING/ LATTIC DYNAMICS

69-PA-04 PAWLEY, G.S./ YEATS, E.A.
LOW FREQUENCY PHONONS IN NAPHTHALENE
SOLID STATE COMMUN., V.7, P.385-P.388 (1969)
NAPHTHALENE ..EXPERIMENT/ PHONON DISPERSION/ DEUTERATED
SAMPLE

69-PJ-01 PINDOR, A.J./ PYN, R.
APPLICATION OF MODEL POTENTIALS TO PHONON SPECTRUM OF M
AGNESIUM
J. PHYS., C, LONDON, V.2, P.1037 (1969)
MG ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMI
CS ..PHONON/ POTENTIAL/ METAL

69-PL-01 PLAKIDA, N.M./ SIKLOS, T.
THEORY OF ANHARMONIC CRYSTALS, 2. LINEAR CHAIN
PHYS. STATUS SOLIDI, V.33, P.113-P.123 (1969)
THEORY-OF-SOLIDS ..LINEAR CHAIN/ ANHARMONIC LATTICE/ FR
EQUENCY AND DAMPING

69-PL-02 PLAKIDA, N.M./ SIKLOS, T.
THEORY OF ANHARMONIC CRYSTALS, 1. GENERAL FORMATION
PHYS. STATUS SOLIDI, V.33, P.103-P.112 (1969)
THEORY-OF-SOLIDS ..ANHARMONIC CRYSTAL/ DOUBLE-TIME GREE
N FUNCTION/ FREQUENCY AND DAMPING

69-PR-01 PRAKASH, S./ JOSHI, S.K.
THE DETERMINATION OF THE CRYSTAL POTENTIAL FOR A CALCUL
ATION OF PHONON FREQUENCIES OF NORMAL METALS
PHYS. LETT., V.30A, P.123 (1969)
NA ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMI
CS ..PHONON/ POTENTIAL/ METAL

69-PR-02 PRAKASH, S./ JOSHI, S.K.
PHONON FREQUENCIES OF ALKALI METALS
PHYS. REV., V.187, P.808 (1969)
LI/ NA/ K/ RB/ CS ..DISPERSION RELATION/ FREQUENCY DIST
RIBUTION/ THEORY/ SOLID/ LATTICE DYNAMICS ..ALKALI META
L/ OPW METHOD/ DIELECTRIC FUNCTION/ HARTREE-FOCK-SLATER
METHOD/ EXCHANG POTENTIAL

- 69-PR-03 PRASK, H./ BOUTIN, H./ YIP, S.
NEUTRON SCATTERING STUDIES OF MOLECULAR VIBRATIONS IN IC
E
MOLECULAR DYNAMICS AND STRUCTURE OF SOLIDS, NBC SP
ECIAL PUBLICATION 301, WASHINGTON D.C., P.335 (1969)
- H2.O ..ICE/ MOLECULAR VIBRATION
- 69-PR-04 PREVENDER, T.S.
FIT, A NONLINEAR LEAST-SQUARES FITTING PROGRAM TO OBTAIN
INTERATOMIC FORCE CONSTANTS FROM OBSERVED PHONON FREQUENCIES
IS-2185 (1969)
COMPUTER-CODES ..LATTICE DYNAMICS/ FORCE CONSTANTS FITTING
ING ..CS.CL TYPE CRYSTAL/ PROGRAM LIST
- 69-PR-05 PREVENDER, T.S.
TRIO, A COMPUTER PROGRAM FOR THE CALCULATION OF PHONON
DISPERSION CURVES, ATOM POLARIZATION VECTORS, AND NORMALIZED
STRUCTURE FACTORS
IS-2186 (1969)
COMPUTER-CODES ..LATTICE DYNAMICS/ DISPERSION CURVES/ POLARIZATION
VECTOR/ STRUCTURE FACTOR
- 69-PR-06 PRICE, D.L./ ROWE, J.M.
THE CRYSTAL DYNAMICS OF GREY (ALPHA) TIN AT 90DK
SOLID STATE COMMUN., V.7, P.1433-P.1438 (1969)
SN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES/ CONSTANT-
FREQUENCY SPECTRUM ..90DK/ 250DK
- 69-RA-01 RANNINGER, J.
SECOND SOUND IN SOLIDS
J. PHYS., C, LONDON, V.2, P.929-P.940 (1969)
THEORY-OF-SOLIDS ..CORRELATION FUNCTION/ SECOND SOUND ..CRYSTAL
LATTICE
- 69-RA-02 RAUNIO, G./ ALMØVIST, L./ STEDMAN, R.
PHONON DISPERSION RELATIONS IN Na,CL
PHYS. REV., V.178, P.1496 (1969)
Na,CL ..DISPERSION RELATION/ EXPERIMENT/ SOLID ..80DK/ 300DK
- 69-RA-03 RAUNIO, G./ ALMØVIST, L.
DISPERSION RELATIONS FOR PHONONS IN K,CL AT 80 AND 300DK
PHYS. STATUS SOLIDI, V.33, P.209-P.215 (1969)
K,CL ..EXPERIMENT/ PHONON DISPERSION RELATION/ 80, 300DK/ COMPARED
WITH BREATHING SHELL MODEL CALCULATION
- 69-RA-04 RAUNIO, G.
PHONON WIDTHS IN Na,CL, K,CL, AND Rb,CL FROM NEUTRON MEASUREMENTS
PHYS. STATUS SOLIDI, V.35, P.299-P.304 (1969)
Na,CL/ K,CL/ Rb,CL ..EXPERIMENT/ PHONON WIDTH/ 80, 300DK
- ASUREMENTS
- 69-RE-01 REICHEL, K./ MAIER, G.
CALCULATIONS OF SINGLE DIFFERENTIAL NEUTRON SCATTERING
CROSS SECTIONS FOR H2,O, USING GENERALIZED FREQUENCY SPECTRUM
AND COMPARISON WITH MEASURED VALUES (IN GERMANY)
JUL-587-FN (1969)
H2,O ..CALCULATION/ SINGLE DIFFERENTIAL CROSS SECTION
- 69-RE-02 RENKER, B.
PHONON DISPERSION IN D2,O
PHYS. LETT., V.30A, P.493 (1969)
H2,O ..PHONON DISPERSION/ D2,O
- 69-RE-03 REYNOLDS, P.A./ WHITE, J.W.
INELASTIC NEUTRON SCATTERING FROM MOLECULAR AND CRYSTAL
EXCITATIONS IN AROMATIC MOLECULAR CRYSTALS
DISCUSS. FARADAY SOC., V.48, P.131-P.147 (1969)
BENZENE ..EXPERIMENT/ TOF SPECTRUM/ MOLECULAR DYNAMICS
- 69-RE-04 REYNOLDS, P.A./ WHITE, J.W.
INELASTIC NEUTRON SCATTERING FROM MOLECULAR AND CRYSTAL
EXCITATIONS IN AROMATIC MOLECULAR CRYSTALS
DISCUSS. FARADAY SOC., V.48, P.131-P.147 (1969)
CHLOROBENZENE
- 69-RI-01 RICHTER, J./ VOSS, K.
SCATTERING LAW FOR KINETIC MODEL IN GERMANY
ANN. PHYS., LEIPZIG, V.22, P.277-P.288 (1969)
THEORY-OF-FLUIDS/ SCATTERING-THEORIES ..THEORY/ SCATTERING
LAW/ VLASOV MODEL
- 69-RI-02 RING, J.W./ EGELSTAFF, P.A.
HYDROGEN MOTION IN LIQUID HYDROGEN FLUORIDE
J. CHEM. PHYS., V.51, P.762 (1969)
H,F ..SCATTERING FUNCTION
- 69-RO-01 ROWELL, J.M./ MCMILLAN, W.L./ FELDMANN, W.L.
PHONON SPECTRA IN Rb AND Pb40-Tl60 DETERMINED BY TUNNELING
AND NEUTRON SCATTERING
PHYS. REV., V.178, P.897-P.899 (1969)
Pb/ Pb-Tl ..EXPERIMENT/ SPECTRAL DENSITY ..TUNNELING EXPERIMENT
- 69-RU-01 RUIJGROK, T.W./ DE-WETTE, F.W./ ANTONIEWICZ, P.R.
PAIR CORRELATION FUNCTION IN MODEL ANHARMONIC CRYSTALS
PHYSICA, V.41, P.489-P.509 (1969)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ PAIR CORRELATION

- 69-SA-01 SAFFORD, G.J./ SCHAFFER, P.C./ LEUNG, P.S./ DOEBBLER, G.F./ BRADY, G.W.//
NEUTRON INELASTIC SCATTERING AND X-RAY STUDIES OF AQUEOUS SOLUTIONS OF DIMETHYLSULPHOXIDE AND DIMETHYLSULPHONE
J. CHEM. PHYS., V.50, P.2140 (1969)
DIMETHYLSULPHOXIDE/ DIMETHYLSULPHONE ..SIGMA (E-E-PRIME, THETA)/ EXPERIMENT/ LIQUID
- 69-SA-02 SAFFORD, G.J./ LEUNG, P.S./ NAUMANN, A.W./ SCHAFFER, R. P.C.
INVESTIGATION OF LOW-FREQUENCY MOTIONS OF H₂O MOLECULES IN IONIC SOLUTIONS BY NEUTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.50, P.4444-P.4467 (1969)
H₂O ..IN IONIC SOLUTION/ EXPERIMENT/ TOF SPECTRUM ..IO N-WATER INTERACTION
- 69-SA-03 SAFFORD, G.J./ LEUNG, P.S./ NAUMANN, A.W./ SCHAFFER, R. P.C.
INVESTIGATION OF LOW-FREQUENCY MOTIONS OF H₂O MOLECULES IN IONIC SOLUTIONS BY NEUTRON INELASTIC SCATTERING
J. CHEM. PHYS., V.50, P.4444-P.4467 (1969)
H₂O/ LA.CL3/ CS.I/ CS.CL/ K.I/ K.BR/ K.CL/ NA.CL ..EXPERIMENT/ TOF SPECTRA/ INTERMOLECULAR FREQUENCY/ H₂O IN SOLUTION
- 69-SA-04 SAFFORD, G.J./ SCHAFFER, P.C./ LEUNG, P.S./ DOEBBLER, G.F./ BRADY, G.W.//
NEUTRON INELASTIC SCATTERING AND X-RAY STUDIES OF AQUEOUS SOLUTIONS OF DIMETHYLSULPHOXIDE AND DIMETHYLSULPHONE
J. CHEM. PHYS., V.50, P.2140-P.2159 (1969)
DIMETHYLSULPHOXIDE/ DIMETHYLSULPHONE ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS/ SELF-DIFFUSION
- 69-SA-05 SAHNI, V.C./ VENKATARAMAN, G.
LATTICE DYNAMICS OF BERYLLIUM USING A PSEUDOPOTENTIAL APPROACH
PHYS. REV., V.185, P.1002 (1969)
BE ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ OPW METHOD/ FERMI SURFACE
- 69-SA-06 SAMPSON, T.E./ CARPENTER, J.M.,
QUASIELASTIC SCATTERING OF THERMAL NEUTRONS BY C.H₃O.H AND C.H₃S.H
J. CHEM. PHYS., V.51, P.5543 (1969)
METHANOL/ METHYLMERCAPTAN ..INELASTIC SCATTERING SPECTRA
- 69-SC-01 SCHNEIDER, T./ STOLL, E./ SZABO, N.
ZERO SOUND DISPERSION LAW IN CLASSICAL LIQUIDS
SOLID STATE COMMUN., V.7, P.501 (1969)
NEUTRON-SCATTERING-IN-FLUIDS/ AR ..DISPERSION
- 69-SC-02 SCHROEDER, G.
A COMPARATIVE INVESTIGATION ON THE EFFECTS OF VARIOUS CRYSTAL MODELS FOR THERMAL NEUTRON SCATTERING IN BERYLLIUM OXIDE USING COMPUTERPROGRAM COLLI (IN GERMANY)
JUL-610-RG (1969)
BE.O ..DEBYE-WALLER FACTOR/ FREQUENCY DISTRIBUTION/ SCATTERING LAW/ SIGMA(E-E-PRIME)/ THEORY/ SOLID
- 69-SC-03 SCHUMACHER, H.H.
DISORDERED SCATTERING OF NEUTRONS BY SUBSTITUTIONAL BISMUTH IN LEAD
JUL-609-FN (1969)
BI-PB ..EXPERIMENT
- 69-SH-01 SHARAN, B./ BAJPAL, R.P.
ELASTIC AND FORCE CONSTANTS OF BODY CENTRED TETRAGONAL CRYSTALS FOR ONE-TWO-THREE NEIGHBOURS NON-CENTRAL INTERACTION
J. PHYS. SOC. JAP., V.26, P.1359-P.1361 (1969)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FORCE CONSTANT/ ELASTIC CONSTANT ..BODY CENTRED TETRAGONAL
- 69-SH-02 SHARP, R.I.
THE LATTICE DYNAMICS OF NIOBIUM 1. MEASUREMENTS OF THE PHONON FREQUENCIES
J. PHYS., C. LONDON, V.2, P.421 (1969)
NB ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATURE ..296DK/ TOF/ TRIPLE-AXIS
- 69-SH-03 SHARP, R.I.
THE LATTICE DYNAMICS OF NIOBIUM 2. KOHN ANOMALIES IN NIOBIUM
J. PHYS., C. LONDON, V.2, P.432 (1969)
NB ..KOHN EFFECT/ DISPERSION RELATION ..FERMI SURFACE
- 69-SH-04 SHAWYER, R.E./ DEAN, P.
ATOMIC VIBRATIONS IN HEXAGONAL ICE 1
DISCUSS. FARADAY SOC., V.48, P.102-P.107 (1969)
H₂O ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA
- 69-SH-05 SHINODA, T./ ENOKIDO, H.
MOLECULAR VIBRATIONS OF LOW TEMPERATURE CRYSTAL OF C₆O
J. PHYS. SOC. JAP., V.26, P.1353-P.1359 (1969)
C₆O ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION
- 69-SH-06 SHIRANE, G./ YAMADA, Y.
LATTICE-DYNAMICAL STUDY OF THE 110DK PHASE TRANSITION IN N SR.TI.O₃
PHYS. REV., V.177, P.858-P.863 (1969)
SR.TI.O₃ ..EXPERIMENT/ LATTICE DYNAMICS/ PHASE TRANSITION ..SOFT PHONON MODE

- 69-SI-01 SINGH, R.K./ VERMA, M.D.
DISPERSION RELATIONS IN POTASSIUM IODIDE
INDIAN J. PURE APPL. PHYS., V.7, P.151 (1969)
K.I. PHONON DISPERSION
- 69-SI-02 SINHA, S.K.
DERIVATION OF THE SHELL MODEL OF LATTICE DYNAMICS AND ITS RELATION TO THE THEORY OF THE DIELECTRIC CONSTANT
PHYS. REV., V.177, P.1256 (1969)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ SOLID/ THEORY
- 69-SL-01 SLAGGIE, E.L.
MULTIPLE SCATTERING IN DOUBLE DIFFERENTIAL MEASUREMENTS AS A FUNCTION OF NEUTRON PATH LENGTH
NUCL. SCI. ENG., V.36, P.105 (1969)
SCATTERING-THEORIES ..THEORY/ SCATTERING LAW
- 69-SL-02 SLAGGIE, E.L.
THERMAL EXPANSION AND PHONON FREQUENCY SHIFTS IN NON-PRIMITIVE LATTICES
GA-9417 (1969)
ZR-H ..THEORY/ ANHARMONICITY/ FREQUENCY DISTRIBUTION ..300DK/ 800DK
- 69-SM-01 SMITH, H.G./ TRAYLOR, J.G./ REICHAARDT, W.
COHERENT INELASTIC NEUTRON SCATTERING IN N.H4.CL
PHYS. REV., V.181, P.1218-P.1220 (1969)
N.H4.CL ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS ..TRIPLE-AXIS-SPECTROMETER
- 69-SP-01 SPREVAK, D./ KOPPEL, J.U.
NEUTRON SCATTERING BY POLYETHYLENE
NUKLEONIK, V.12, P.87 (1969)
POLYETHYLENE ..THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ SIGMA (E) ..SCATTERING LAW/ GASKET CODE
- 69-SP-02 SPREVAK, D./ KOPPEL, J.U.
SLOW-NEUTRON SCATTERING BY DIPHENYL
NUCL. SCI. ENG., V.35, P.80 (1969)
BIPHENYL ..THEORY/ SCATTERING LAW/ SIGMA (E)/ LIQUID
- 69-ST-01 STEINMAN, D.K./ SUMMERFIELD, G.C.
NEUTRON INCOHERENT SCATTERING FROM KDP
J. PHYS. CHEM. SOLIDS, V.30, P.449-P.451 (1969)
K.H2.P.04 ..THEORY/ INCOHERENT SCATTERING ..SINGLE CRYSTAL/ TUNNELING MOTION
- 69-ST-02 STOCKMEYER, R./ HOSSFELD, F./ AXMANN, A.
INCOHERENT SCATTERING OF SLOW NEUTRONS BY GLOBULAR MOLECULES IN A CUBIC CRYSTAL, 1. CALCULATION OF NEUTRON TIME-OF-FLIGHT SPECTRA, 2. INTERPRETATION OF SCATTERING DATA FOR ADAMANTANE
JUL-588-FN (1969)
ADAMANTANE ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..COMPUTER CALCULATION
- 69-TA-01 TAHIR-KHELI, R.A./ WU, D.H.
PHENOMENOLOGICAL THEORY OF VELOCITY AUTOCORRELATION IN SIMPLE LIQUIDS
SOLID STATE COMMUN., V.7, P.1235 (1969)
AR ..CORRELATION FUNCTION/ LIQUID/ FREQUENCY DISTRIBUTION/ MEAN SQUARE DISPLACEMENT/ THEORY ..MEMORY FUNCTION/ DRUDE-MAXWELL MODEL/ RELAXATION TIME
- 69-TA-02 TAKAHASHI, H.
COHERENT NEUTRON SCATTERING FROM POLYCRYSTALLINE GRAPHITE
NUCL. SCI. ENG., V.37, P.198-P.215 (1969)
GRAPHITE ..THEORY/ LATTICE DYNAMICS/ SCATTERING FUNCTION ..COHERENT SCATTERING/ COMPUTER CALCULATION
- 69-TE-01 TEH, H.C./ BROCKHOUSE, B.N./ DEWIT, G.A.
LATTICE VIBRATIONS IN DEUTERATED AMMONIUM CHLORIDE
PHYS. LETT., V.29A, P.694-P.695 (1969)
N.H4.CL ..EXPERIMENT/ CONSTANT METHOD/ LATTICE DYNAMICS / DISPERSION RELATION ..DEUTERATED SAMPLE/ 85DK
- 69-TH-01 THAPER, C.L./ SEQUEIRA, A./ DASANNACHARYA, B.A./ IYENGAR, P.K.
NEUTRON INELASTIC SCATTERING STUDIES IN CRYSTAL HYDRATE
PHYS. STATUS SOLIDI, V.34, P.279-P.291 (1969)
K2.C2.O4*H2.O/ BA.(CL.O3)2*H2.O/ LI2.S.O4*H2.O/ CA.S.O4*2(H2.O)/ CU.CL2*2(H2.O)/ BE.S.O4*4(H2.O) ..EXPERIMENT/ CRYSTAL HYDRATES/ FREQUENCY SPECTRA
- 69-TO-01 TODIREANU, S.
POSSIBLE PHASE TRANSITIONS IN A PHYSISORBED STATE DETECTED BY COLD NEUTRON SCATTERING
PHYS. LETT., A, V.30, P.367 (1969)
C.H4-CHARCOAL ..EXPERIMENT/ TOTAL SCATTERING CROSS SECTION
- 69-TO-02 TONG, S.Y./ MARADUDIN, A.A.
NORMAL MODE OF A SEMI-INFINITE IONIC CRYSTAL
PHYS. REV., V.181, P.1318 (1969)
THEORY-OF-SOLIDS ..THEORY
- 69-VE-01 VETELINO, J.F./ MITRA, S.S.
LATTICE DYNAMICS OF CUBIC SiC
PHYS. REV., V.178, P.1349 (1969)
SiC ..LATTICE DYNAMICS/ SOLID/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION

- 69-VE-02 VETELINO, J.F./ MITRA, S.S./ BRAFMAN, O./ DAMEN, T.
LATTICE DYNAMICS OF CUBIC ZINC SULFIDE
SOLID STATE COMMUN., V.7, P.1809-P.1812 (1969)
ZN,S ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES ..RI
GID ION MODEL
- 69-VI-01 VIJAYARAGHAVAN, P.R./ IYENGAR, P.K.
PHONON IN CALCIUM FLUORIDE
PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE
PHYSICS SYMPOSIUM, DAE, BOMBAY, V.3, P.25-P.28 (1
969)
CA,F2 ..EXPERIMENT/ PHONON DISPERSION
- 69-WA-01 WAEBER, W.B.
LATTICE VIBRATIONS OF GALLIUM METAL 1. GROUP-THEORETICA
L ANALYSIS
J, PHYS., C, LONDON, V.2, P.882-P.902 (1969)
GA ..THEORY/ LATTICE DYNAMICS/ ..GROUP-THEORETICAL ANAL
YSIS
- 69-WA-02 WAEBER, W.B.
LATTICE VIBRATIONS OF GALLIUM METAL 2. EXPERIMENTAL DET
ERMINATION OF THE PHONON DISPERSION RELATION
J, PHYS., C, LONDON, V.2, P.903-P.913 (1969)
GA ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/
TRIPLE-AXIS SPECTROMETER ..77DK
- 69-WA-03 WALKER, L.B./ EGELSTAFF, P.A.
LATTICE VIBRATIONS IN MOLYBDENUM
PHYS. REV., V.177, P.1111 (1969)
MO ..DISPERSION RELATION/ LATTICE DYNAMICS/ TOF ..ROOM
TEMPERATURE
- 69-WA-04 WALLACE, D.C.
PSEUDOPOTENTIAL CALCULATION OF PHONON FREQUENCIES AND G
RUENEISEN PARAMETERS FOR LITHIUM
PHYS. REV., V.178, P.900 (1969)
LI ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMI
CS ..PSEUDOPOTENTIAL/ PHONON/ GRUENEISEN PARAMETER/ MET
AL
- 69-WA-05 WALLACE, D.C.
DEPENDENCE OF PHONON FREQUENCIES ON THE PSEUDOPOTENTIAL
FORM FACTOR FOR ALUMINUM
PHYS. REV., V.187, P.991 (1969)
AL ..THEORY/ PHONON DISPERSION
- 69-WU-01 WU, S.Y./ TAYLOR, P.L.
DYNAMICS OF A DISORDERED DIATOMIC CHAIN
PHYS. REV., V.181, P.1136-P.1148 (1969)
- THEORY-OF-SOLIDS ..THEORY/ FREQUENCY SPECTRUM/ CHAIN
- 69-YA-01 YAMADA, Y./ SHIRANE, G.
NEUTRON SCATTERING AND NATURE OF THE SOFT OPTICAL PHONO
N IN SR,TI,03
J, PHYS. SOC. JAP., V.26, P.396-P.403 (1969)
SR,TI,03 ..EXPERIMENT/ CONST./ DISPERSION RELATION/ T
EMPERATURE DEPENDENCE ..4.5DK=300DK/ SOFT PHONON MODE
- 69-YA-02 YAMADA, Y./ SHIRANE, G.
STUDY OF CRITICAL FLUCTUATIONS IN BA,TI,03 BY NEUTRON S
CATTERING
PHYS. REV., V.177, P.848-P.857 (1969)
BA,TI,03 ..EXPERIMENT/ CRITICAL SCATTERING/ QUASI-ELAST
IC SCATTERING ..OVERDAMPED PHONON MODEL/ TUNNELING-MODE
MODEL
- 70-AC-01 ACHAR, B.N.N./ BARSH, G.R.
SCATTERING-MATRIX METHOD IN LATTICE DYNAMICS
PHYS. REV., V.188, P.1356-P.1360 (1970)
THEORY-OF-SOLIDS ..THEORY ..DEFECT/ LOCALIZED MODE
- 70-AI-01 AICAWADI, N.K.
AN ESTIMATE FOR THE LIFETIMES OF THE COLLECTIVE MODES I
N SIMPLE CLASSICAL LIQUIDS
PHYSICA, V.49, P.345-P.359 (1970)
THEORY-OF-FLUIDS ..THEORY/ COLLECTIVE MODE/ LIFETIME/ M
ODE-MODE INTERACTION
- 70-AK-01 AKCASU, A.Z./ DANIELS, E.
FLUCTUATION ANALYSIS IN SIMPLE FLUIDS
PHYS. REV. A, V.48, P.962 (1970)
THEORY-OF-FLUIDS ..THEORY/ LIQUID ..GENERALIZED LANGEVI
N EQUATION/ CURRENT-CURRENT CORRELATION FUNCTION
- 70-AL-01 ALEXANDROV, Y.A./ KOESTER, L./ SAMOSVAT, G.S.
COHERENT SCATTERING AMPLITUDE OF TUNGSTEN-186 MEASURED
BY SMALL ANGLE SCATTERING
JINR-E3-5371 (1970)
W ..EXPERIMENT/ SCATTERING AMPLITUDE/ SMALL ANGLE SCATT
ERING
- 70-AL-02 ALEXANDROV, Y.A./ BALAGUROV, A.M./ SANOSVAT, G.S./
FYKIN, L.E.
THE DEBYE-WALLER FACTOR FOR TUNGSTEN (IN RUSSIAN)
JINR-P14-5358 (1970)
W ..EXPERIMENT/ DEBYE-WALLER FACTOR
- 70-AL-03 ALIKHANOV, R.A./ DIMITRIJEVIC, Z./ KRASNICKI, S./
RZANY, H./ TODOROVIC, J./
INVESTIGATION OF MAGNON DISPERSION RELATION IN ALPHA-FE
2,03 -ADDITIONAL DATA

PHYS. STATUS SOLIDI, V.41K, P.103-P.106 (1970)
 FE2,03/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION

70-AN-01 ANDRIESSE, C.D.
 ATOMIC MOTION IN GASEOUS ARGON I. DETERMINATION OF THE INTERMEDIATE SCATTERING FUNCTION OF GASEOUS ARGON USING SUBTHERMAL NEUTRONS
 PHYSICA, V.48, P.61-P.78 (1970)
 AR ..INTERMEDIATE SCATTERING FUNCTION ..4A NEUTRONS

70-AN-02 ANDRIESSE, C.D.
 ATOMIC MOTION IN GASEOUS ARGON II. COMPARISON OF MODELS ON THE ATOMIC MOTION IN FLUIDE WITH NEUTRON-SCATTERING DATA
 PHYSICA, V.49, P.502 (1970)
 ARGON ..THEORY ..MODEL WHICH IS USEFUL FOR THE INTERPRETATION OF THE GAS DATA

70-AR-01 ARKUSZEWSKI, J.
 MINIGASKET, A CODE FOR THERMAL NEUTRON SCATTERING LAW IN POLYCRYSTALS
 INR-1186-XXI-PR (1970)
 COMPUTER-CODES ..THEORY/ SOLID/ SCATTERING LAW

70-AU-01 AUGST, G.K.
 THEORY OF NEUTRON SCATTERING IN DIATOMIC CRYSTALS CONTAINING IMPURITIES
 FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.12 (V.12), P.1311-P.1316 (P.1031-P.1035) (1970 (1970))
 NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ IMPURITY EFFECT/ CUBIC CRYSTAL/ PHONON

70-AX-01 AXE, J.D./ SHIRANE, G.
 STUDY OF THE ALPHA-BETA QUARTZ PHASE TRANSFORMATION BY INELASTIC NEUTRON SCATTERING
 PHYS. REV. B, V.1, P.342-P.348 (1970)
 QUARTZ ..EXPERIMENT/ PHONON/ CRITICAL SCATTERING ..PHASE TRANSFORMATION/ ABOVE 573DC/ CONST.-0

70-AX-02 AXE, J.D./ HARADA, J./ SHIRANE, G.
 ANOMALOUS ACOUSTIC DISPERSION IN CENTROSYMMETRIC CRYSTALS WITH SOFT OPTIC PHONONS
 PHYS. REV. B, V.1, P.1227 (1970)
 K.TA.03 ..PHONON DISPERSION/ CRITICAL PHENOMENA

70-BA-01 BANSAL, R.M./ KOTHARI, L.S./ TEWARI, S.P.
 A MODEL FOR THE LATTICE VIBRATIONS OF SOLID METHANE
 PHYS. LETT., A, V.33, P.209-P.210 (1970)
 METHANE ..THEORY/ SOLID/ LATTICE VIBRATION/ FREQUENCY DISTRIBUTION

70-BA-02 BARKER, J.A./ KLEIN, M.L.
 ELASTIC CONSTANTS AND PHONON DISPERSION CURVES FOR SOLID ARGON NEAR ODK
 PHYS. REV. B, V.2, P.4176 (1970)

AR ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ ANHARMONICITY

70-BA-03 BATA, L./ JOVIC, D.
 THE MOLECULAR DYNAMICS ALONG THE COEXISTENCE CURVE OF A LIQUID-GAS SYSTEMS
 PHYS. LETT., A, V.33, P.287-P.288 (1970)
 C4.H10.O ..EXPERIMENT/ LIQUID-GAS PHASE

70-BA-04 BATCHELDER, D.N./ COLLINS, M.F./ HAYWOOD, B.C.G./ SIDNEY, G.R.
 LATTICE DYNAMICS OF ARGON AT 4 K
 J. PHYS., C, LONDON, V.3, P.249-P.255 (1970)
 AR ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION CURVE

70-BA-05 BATES, J.B./ LIPPINCOTT, E.R./ MIKAWA, Y./ JAKOBSEN, R.J.
 DYNAMICS OF LATTICE MODELS OF POLYMER
 J. CHEM. PHYS., V.52, P.3731 (1970)
 H2.O ..MOLECULAR VIBRATIONS

70-BE-01 BEG, M.M./ ROSS, D.K.
 THE QUASIELASTIC SCATTERING OF COLD NEUTRONS FROM THE BETA-PHASE OF PALLADIUM HYDRIDE
 J. PHYS., C, LONDON, V.3, P.2487-P.2500 (1970)
 PD-H ..EXPERIMENT/ QUASIELASTIC SCATTERING ..DIFFUSIVE MOTION

70-BE-02 BEHARI, J./ TRIPATHI, B.B.
 MODIFIED ANGULAR FORCE MODEL IN THE STUDIES OF LATTICE DYNAMICS OF BCC METALS, AN APPLICATION TO SODIUM
 J. PHYS. SOC. JAP., V.28, P.346-P.348 (1970)
 NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..BCC METAL

70-BE-03 BEHARI, J./ TRIPATHI, B.B.
 PHONON DISPERSION RELATIONS IN NOBLE METALS
 J. PHYS., C, LONDON, V.3, P.659-P.665 (1970)
 CU/ AG/ AU ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..NON-CENTRAL FORCE MODEL/ ELECTRON-ION INTERACTION

70-BE-04 BERGSMAN, J.
 LATTICE DYNAMICS OF MAGNESIUM STANNIDE AND ZINC BLENDE
 RCN-121 (1970)
 MG2.SN/ ZN.S ..EXPERIMENT/ TRIPLE AXIS SPECTROMETER/ PHONON DISPERSION RELATION

- 70-BE-05 BERGSMÄ, J.
LATTICE DYNAMICS OF ZINC BLENDE
PHYS. LETT., A, V.32, P.324-P.325 (1970)
Z.N.S. .EXPERIMENT/ DISPERSION CURVES .RIGID ION MODEL/
SHELL MODEL
- 70-BE-06 BEZDEK, H.F./ SCHMUNK, R.E./ FINEGOLD, L.
LATTICE DYNAMICS OF ZIRCONIUM
PHYS. STATUS SOLIDI, V.42, P.275-P.280 (1970)
ZR .EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON
ON DENSITY
- 70-BI-01 BINDER, K.
TOTAL COHERENT CROSS SECTIONS FOR THE SCATTERING OF NEUTRONS
FROM CRYSTALS
PHYS. STATUS SOLIDI, V.41, P.767 (1970)
AL .EXPERIMENT/ SCATTERING CROSS SECTION
- 70-BI-02 BIRR, M.
MEASUREMENT OF THE QUASI-ELASTIC LINE-BROADENING IN GLYCEROL
WITH A NEUTRON CRYSTAL SPECTROMETER OF EXTREMELY HIGH ENERGY RESOLUTION
Z, PHYS., V.238, P.221-P.232 (1970)
GLYCELINE .EXPERIMENT/ QUASI-ELASTIC SCATTERING/ DIFFUSION
CONSTANT
- 70-BL-01 BLINC, R./ DIMIC, V.
NEUTRON SCATTERING STUDY OF SELF DIFFUSION IN LIQUID CRYSTALS
PHYS. LETT., V.31A, P.531-P.531 (1970)
P-AZOXYANISOLE .EXPERIMENT/ TOF .DIFFUSION CONSTANT/ LIQUID CRYSTAL
- 70-BL-02 BLINC, R./ DIMIC, V.
NEUTRON SCATTERING STUDY OF SELF-DIFFUSION IN LIQUID CRYSTALS
IJS-R-582 (1970)
P-AZOXYANISOLE .EXPERIMENT/ DIFFUSION BROADENING/ NEMATIC AND ISOTROPIC LIQUID
- 70-BO-01 BOBETIC, M.V./ BARKER, J.A.
LATTICE DYNAMICS WITH THREE-BODY FORCES: ARGON
PHYS. REV. B, V.2, P.4169 (1970)
AR .THEORY/ SOLID/ LATTICE DYNAMICS/ ANHARMONICITY .THREE-BODY FORCE/ SPECIFIC HEAT/ DEBYE TEMPERATURE
- 70-BO-02 BOCCHERI, P./ SCOTTI, A./ BEARZI, B./ LOINGER, A.
ANHARMONIC CHAIN WITH LENNARD-JONES INTERACTION
PHYS. REV. A, V.2, P.2013-P.2019 (1970)
THEORY-OF-SOLIDS .THEORY .ONE-DIMENSIONAL LATTICE/ ERGODICITY/ NUMERICAL STUDY/ CLASSICAL
- 70-BO-03 BORGONOV, G.M.
NEUTRON SCATTERING KERNELS CALCULATIONS AT EPITHERMAL ENERGIES
GA-9950 (1970)
COMPUTER-CODES .SCATTERING LAW/ SIGMA(E,E-PRIME)
- 70-BO-04 BORGONOV, G.M./ SPREYAK, D.
A CALCULATION OF THE COHERENT NEUTRON SCATTERING FROM POLYCRYSTALLINE BERYLLIUM
NUCL. SCI. ENG., V.42, P.137 (1970)
BE .THEORY.COHERENT SCATTERING/ POLYCRYSTAL
- 70-BR-01 BRAUNECK, W./ GAHN, U./ SOMMER, F./ WERBER, K./ WILLE, C.
THE RADIAL DISTRIBUTION FUNCTION FOR LIQUID ALUMINIUM FROM A NEW PSEUDO-POTENTIAL CALCULATION
PHYS. REV. LETT., V.31A, P.237 (1970)
AL .THEORY/ STRUCTURE FACTOR
- 70-BR-02 BRIER, P.N./ HIGGINS, J.S.
NEUTRON INELASTIC SCATTERING MEASUREMENTS ON LIQUID TRIFLUOROETHANE
MOL. PHYS., V.19, P.645-P.657 (1970)
C.H3.C.F3 .EXPERIMENT/ SCATTERING LAW/ TORSIONAL OSCILLATION/ SPHERICAL TOP MOLECULE
- 70-BR-03 BROWN, J.S.
KREBS MODEL CALCULATION OF PHONON DISPERSION IN PALLADIUM
PHYS. STATUS SOLIDI, V.39K, P.75-P.78 (1970)
PD .THEORY/ PHONON DISPERSION/ KREBS MODEL
- 70-BR-04 BRUIN, C./ HASMAN, A.
ON THE COHERENT INTERMEDIATE SCATTERING FUNCTION OF GASEOUS ARGON AS DETERMINED BY INELASTIC NEUTRON SCATTERING AND MOLECULAR DYNAMICS CALCULATIONS,
PHYS. LETT., A, V.33, P.338 (1970)
ARGON .INTERMEDIATE SCATTERING FUNCTION/ STRUCTURE FACTOR/ GAS
- 70-BU-01 BUEHRER, W.
LATTICE DYNAMICS OF COPPER
EIR-174 (1970)
CU .EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ COINTEGRATION METHOD .PSEUDO-POTENTIAL ANALYSIS
- 70-BU-02 BUEHRER, W.
LATTICE DYNAMICS OF POTASSIUM FLUORIDE
PHYS. STATUS SOLIDI, V.41, P.789-P.795 (1970)
K.F .EXPERIMENT/ PHONON DISPERSION/ ELEVEN PARAMETER FITTING/ FREQUENCY SPECTRUM

- 70-BU-03 BUTLAND, A.T.D./ CHUDLEY, C.T.
THERMAL NEUTRON DIFFUSION DATA AND THE WIMS SCATTERING
MODELS FOR LIGHT WATER
AEEW-R-701 (1970)
H2.O ..INTEGRAL DATA/ NEUTRON DIFFUSION COEFFICIENT/ TO
TAL SIGMA/ EFFECTIVE WIDTH MODEL/ NELKIN MODEL
- 70-CA-01 CAGLIOTTI, G./ RIZZI, G./ CUBIOTTI, G.
TEMPERATURE DEPENDENCE OF NEUTRON GROUPS FROM PHONON IN
ZINC 1.
SOLID STATE COMMUN., V.8, P.367-P.371 (1970)
ZN ..EXPERIMENT/ LATTICE VIBRATION ..TEMPERATURE DEPEND
ENCE/ 80-670DK
- 70-CA-02 CAGLIOTTI, G./ RIZZI, G.
TEMPERATURE DEPENDENCE OF NEUTRON GROUPS FROM PHONONS I
N ZINC 1
SOLID STATE COMMUN., V.8, P.367-P.371 (1970)
ZN ..EXPERIMENT/ TEMPERATURE DEPENDENCE OF PHONON
- 70-CL-01 CLIFFORD, L.R.
A DIFFUSIVE SLOW NEUTRON SCATTERING LAW
DP-1224 (1970)
H2.O ..SCATTERING LAW / LIQUID
- 70-CO-01 COLELLA, R./ BATTERMAN, B.W.
X-RAY DETERMINATION OF PHONON DISPERSION IN VANADIUM
PHYS. REV. B, V.1, P.3913-P.3921 (1970)
V ..EXPERIMENT/ X-RAY THERMAL DIFFUSE SCATTERING/ LATTI
CE DYNAMICS/ DISPERSION CURVES/ FREQUENCY SPECTRUM ..NO
LOW ENERGY PEAK/ NO HIGH ENERGY TAIL
- 70-CO-02 COLLINS, M.F./ HAYWOOD, B.C./ STIRLLING, G.C.
VIBRATION SPECTRA OF HYDROGEN BONDS BY NEUTRON ENERGY-L
OSS SPECTROMETRY
J. CHEM. PHYS., V.52, P.1828-P.1831 (1970)
K.H.F2/ CS.H.CL2/ NA.H.C.O3/ K.C2.CL3.O2/ K.C2.F3.O2 ..
EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY SPECTRA ..BE-
DETECTOR METHOD
- 70-CO-03 COLLINS, M.F./ HAYWOOD, B.C.
VIBRATION SPECTRA OF CARBOXYLIC ACIDS BY NEUTRON SPECTR
OSCOPY
J. CHEM. PHYS., V.52, P.5740-P.5745 (1970)
FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/
MALONIC ACID/ SUCCINIC ACID/ MONOCHLOROACETIC ACID/ THI
CHLOROACETIC ACID/ TRIFLUOROACETIC ACID/ PENTAFLUOROPIO
NIC ACID/ MALEIC ACID/ L-TARTARIC ACID ..EXPERIMENT/ FR
EQUENCY SPECTRA/ SOLID/ CARBOXYLIC ACID ..BE DETECTOR M
ETHOD
- 70-CO-04 CONN, R.
- APPROXIMATE DISPERSION RELATIONS AND THE TOTAL COHERENT
INELASTIC NEUTRON SCATTERING CROSS SECTION FOR GRAPHIT
E
NUCL. SCI. ENG., V.40, P.17-P.24 (1970)
GRAPHITE ..THEORY/ SPECTRAL DENSITY/ SIGMA(E)
- 70-CO-05 CORNGOLD, N./ DUDERSTADT, J.J.
PERTURBATIVE THEORY OF SELF-DIFFUSION IN CLASSICAL MANY
-PARTICLE SYSTEM, I. VELOCITY AUTOCORRELATION FUNCTION.
PHYS. REV. A, V.2, P.836 (1970)
THEORY-OF-FLUIDS ..CORRELATION FUNCTION
- 70-CO-06 COULTHARD, M.A.
PRESSURE DEPENDENCE OF PHONON DISPERSION CURVES IN SIMP
LE METALS
J. PHYS., C, LONDON, V.3, P.820-P.834 (1970)
SODIUM/ POTASSIUM/ ALUMINIUM/ LEAD ..THEORY/ LATTICE VI
BRATION/ DISPERSION RELATION ..PRESSURE EFFECT/ PSEUDOP
OTENTIAL/ METAL
- 70-CU-01 CUNNINGHAM, R.M./ MUHLESTEIN, L.D./ SHAW, W.M./ TO
MPSON, C.W.
INVESTIGATION OF IN-BAND RESONANT MODES IN CR-W ALLOYS
BY INELASTIC NEUTRON SCATTERING
PHYS. REV. B, V.2, P.4864-P.4870 (1970)
CR-W ..EXPERIMENT/ IN-BAND PHONON/ MASS EFFECT
- 70-CZ-01 CZACHOR, A.
SIMPLE MODEL OF LATTICE DYNAMICS FOR MAGNESIUM, COBALT
AND YTTRIUM
INR-1189/II/PS (1970)
MG/ CO/ Y ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION
RELATION/ BORN-VON KARMAN MODEL ..AXIAL SYMMETRY MODEL
/ ELASTIC CONSTANT/ HEXAGONAL CLOSE-PACKED CRYSTAL
- 70-CZ-02 CZACHOR, A./ RAJCA, A.
SIMPLE MODEL OF LATTICE DYNAMICS FOR MAGNESIUM, COBALT
AND YTTRIUM PART 2
INR-1219/ 2/ PS (1970)
MG/ CO/ Y ..CALCULATION/ HEXAGONAL METAL/ FREQUENCY SPE
CTRA
- 70-DA-01 DAUBERT, J.
PHONON DISPERSION IN CS.BR
PHYS. LETT., A, V.32A, P.437-P.437 (1970)
CS.BR ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATI
ON ..TOP/ PSEUDOSTATISTICAL CHOPPER/ 300DK
- 70-DE-01 DE-GRAAF, L.A./ SCIESINSKI, J.
STUDY OF MOLECULAR MOTIONS IN PLASTIC-CRYSTALLINE NEOPEN
TANE BY COLD-NEUTRON SCATTERING
PHYSICA, V.48, P.79-P.92 (1970)

- PENTANE ..EXPERIMENT/ QUASI-ELASTIC PEAK ..ROTATIONAL-D
DIFFUSION/ REORIENTATIONAL JUMP
- 70-DE-02 DE-MUL, F.F./ BERGMAN, J.D.
QUASI-ELASTIC INCOHERENT COLD NEUTRON SCATTERING IN LIQUID
CYCLOHEXANOL
PHYS. LETT., A, V.33, P.87-P.88 (1970)
CYCLOHEXANOL ..EXPERIMENT/ TOF/ LIQUID/ QUASI-ELASTIC PEAK
EAK ..JUMP-DIFFUSION/ INCOHERENT NEUTRON SCATTERING
- 70-DE-03 DENHAM, P./ FIELD, G.R./ MORSE, P.L.R./ WILKINSON,
G.R.
OPTICAL AND DIELECTRIC PROPERTIES AND LATTICE DYNAMICS
OF SOME FLUORITE STRUCTURE IONIC CRYSTAL
PROC. ROY. SOC., LONDON, SER. A, V.317, P.55-P.77
(1970)
CA,F2/ SR,F2/ BA,F2/ CD,F2/ PB,F2 ..THEORY/ LATTICE DYN
AMICS/ FREQUENCY SPECTRA/ DISPERSION CURVES
- 70-DI-01 DIACONESCU, A./ NAHORNIAC, V./ MATEESCU, N./ TEUTS
CH, H.
COLD NEUTRON SCATTERING BY METAYL ALCOHOL, CYCLOHEXANE
AND THEIR MIXTURE NEAR THE CONSOLUTION POINT
REV. ROUM. PHYS., V.15, P.783 (1970)
METHANOL/ CYCLOHEXANE ..INELASTIC SCATTERING SPECTRA
- 70-DO-01 DOHLBORG, U./ LARSSON, K.E./ PIRKMAJER, E.
ROTATIONAL MOTIONS IN SOLIDS. THE FERROELECTRIC TRANSIT
ION IN (N-H4)2.S.04
PHYSICA, V.49, P.1 (1970)
AMMONIUM SULFATE ..EXPERIMENT/ COLD NEUTRON SPECTROMETE
R/ FERROELECTRICITY/ PHASE TRANSITION/ ROTATIONAL MOTIO
N /ANGULAR CORRELATION FUNCTION
- 70-DO-02 DOI, K./ SAKAMOTO, M./ IIZUMI, M./ MASAKI, N./ MOT
OHASHI, H.
LOW ENERGY VIBRATIONS OF POLYETHYLENES AND THE EFFECTS
OF CRYSTALLINITY AS OBSERVED BY NEUTRON INELASTIC SCATT
ERINGS
JAERI-1197, P.109-P.113 (1970)
POLYETHYLENE ..EXPERIMENT/ FREQUENCY DISTRIBUTION
- 70-DO-03 DOLLING, G./ POWELL, B.M.
INTERMOLECULAR DYNAMICS OF HEXAMETHYLENETETRAMINE
PROC. ROY. SOC., LONDON, SER. A, V.319, P.209-P.23
5 (1970)
HEXAMETHYLENETETRAMINE ..EXPERIMENT/ PHONON DISPERSION/
DHMT/ MODEL FITTING/ PHONON DENSITY
- 70-DO-04 DOLLING, G./ SAKURAI, J./ COWLEY, R.A.
CRYSTAL DYNAMICS OF SODIUM NITRITE
J. PHYS. SOC. JAP., V.28, SUPPLEMENT, P.258 (1970)
- NA,N.O2 ..PHONON DISPERSION
- 70-EG-01 EGELSTAFF, P.A./ HARRIS, D.H.C.
LOW FREQUENCY MOLECULAR MODES IN LIQUID HYDROCARBONS
DISCUSS. FARADAY SOC., V.49, P.193-P.207 (1970)
PENTANE/ HEPTANE/ DODECANE ..EXPERIMENT/ QUASI-ELASTIC/
DIFFUSION CONSTANT
- 70-EG-02 EGELSTAFF, P.A./ WIGNALL, G.D.
CRITICAL OPALESCENCE IN BINARY LIQUID METAL MIXTURES 2.
CONCENTRATION DEPENDENCE
J. PHYS., C, LONDON, V.3, P.1673 (1970)
BI-GA ..CRITICAL PHENOMENA/ BINARY LIQUID METAL
- 70-EG-03 EGELSTAFF, P.A./ WIGNALL, G.D.
CRITICAL OPALESCENCE IN BINARY LIQUID METAL MIXTURES 1:
CONCENTRATION DEPENDENCE
J. PHYS., C, LONDON, V.3, P.1673-P.1676 (1970)
BI-GA ..EXPERIMENT/ CRITICAL SCATTERING
- 70-EL-01 ELCOMBE, M.M./ PRYOR, A.W.
THE LATTICE DYNAMICS OF CALCIUM FLUORIDE
J. PHYS., C, LONDON, V.3, P.492-P.499 (1970)
CA,F2 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMI
CS/ DISPERSION RELATION/ FREQUENCY SPECTRA ..SHELL MODE
L FITTING
- 70-ER-01 ERIKSSON, J.R.
A SLOW NEUTRON SCATTERING ROUTINE FROM THE GAS MODEL
NUCL. SCI. ENG., V.41, P.307 (1970)
SCATTERING-THEORIES ..SCATTERING THEORY
- 70-FL-01 FLOYD, E.R./ KLEINMAN, L.
EFFECT OF THE DIELECTRIC FUNCTION ON THE PHONON SPECTRU
M OF MAGNESIUM
PHYS. REV. B, V.2, P.3947-P.3952 (1970)
MG ..THEORY/ PHONON DISPERSION RELATION/ METAL/ PSEUDOP
OTENTIAL
- 70-FO-01 FORSTER, D./ MARTIN, P.C.
KINETIC THEORY OF A WEAKLY COUPLED FLUID
PHYS. REV. A, V.2, P.1575 (1970)
THEORY-OF-FLUIDS ..KINETIC THEORY
- 70-FR-01 FRAAS, L.M./ PORTO, S.P.S./ LOH, E.
SYMMETRY IN RAMAN SCATTERING FROM THE OPTICAL PHONON IN
SINGLE CRYSTAL BERYLLIUM
SOLID STATE COMMUN., V.8, P.803-P.805 (1970)
BE ..EXPERIMENT/ RAMAN SCATTERING
- 70-FR-02 FRANKS, F./ RAVENHILL, J./ EGELSTAFF, P.A./ PAGE,
D.I.

- MOTIONS OF WATER MOLECULES IN DILUTE AQUEOUS SOLUTIONS OF TERTIARY BUTYL ALCOHOL. A NEUTRON SCATTERING STUDY OF F HYDROPHOBIC HYDRATION
 PROC. ROY. SOC. LONDON, SER. A, V.319, P.209-P.235 (1970)
 ALCOHOL-WATER ..EXPERIMENT/ NEUTRON SPECTROSCOPY ..DIFFUSION OF WATER IN AQUEOUS SOLUTIONS OF ALCOHOL
- 70-FU-01 FURRER, A./ HALG, W.
 EXPERIMENTAL PHONON FREQUENCIES AND WIDTHS OF LEAD AT 5, 80, AND 290 DEG. K.
 PHYS. STATUS SOLIDI, V.42, P.821 (1970)
 PB ..ANHARMONIC EFFECT
- 70-GE-01 GELDART, D.J./ TAYLOR, R./ VARSHNI, Y.P.
 INFLUENCE OF THE STATIC ELECTRON GAS SCREENING FUNCTION ON THE LATTICE DYNAMICS OF SODIUM
 CAN. J. PHYS., V.48, P.183 (1970)
 NA ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATURE/ THEORY/ LATTICE DYNAMICS/ SOLID ..SCREENING FUNCTION/ METAL/ OPW METHOD/ RPA
- 70-GI-01 GILAT, G.
 ON FLAT PHONONS IN BETA-BRASS
 SOLID STATE COMMUN., V.8, P.2053-P.2054 (1970)
 CU-ZN ..THEORY/ FLAT PHONON/ ORDER DISORDER TRANSITION
- 70-GI-02 GISSLER, W./ ROTHER, H.
 THEORY OF THE QUASIELASTIC NEUTRON SCATTERING BY HYDROGEN IN BCC METALS APPLYING A RANDOM FLIGHT METHOD
 PHYSICA, V.50, P.380-P.390 (1970)
 NB-H ..THEORY/ DIFFUSION OF HYDROGEN IN METAL HYDRIDE/ QUASIELASTIC
- 70-GL-01 GLYDE, H.R.
 ANHARMONICITY AND POTENTIALS FOR THE SOLIDIFIED INERT GASES
 J. PHYS., C, LONDON, V.3, P.810 (1970)
 NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY
- 70-GL-02 GLYDE, H.R./ COWLEY, R.A.
 CUBIC ANHARMONIC CORRECTION TO SELF-CONSISTENT PHONONS IN B.C.C. HE3
 SOLID STATE COMMUN., V.8, P.923 (1970)
 HE ..ANHARMONICITY
- 70-GO-01 GOLDMAN, V.V./ HORTON, G.K./ KEIL, T.H./ KLEIN, M.L.
 PHONON ENERGIES AND LIFETIMES IN SOLID ARGON NEAR 0 K
 J. PHYS., C, LONDON, V.3, P.33-P.36 (1970)
 AR ..DISPERSION CURVE/ LIFETIME / THEORY/ SELF-CONSISTENT APPROXIMATION
- 70-GO-02 GOLDMAN, V.V./ HORTON, G.K./ KLEIN, M.L.
 PHONON ENERGIES AND LIFETIMES IN SOLID NE AND HE IN THE FIRST-ORDER SELF-CONSISTENT APPROXIMATION
 PHYS. REV. LETT., V.24, P.1424-P.1427 (1970)
 NE/ HE ..SELF-CONSISTENT APPROXIMATION/ DISPERSION CURVE/ LIFE TIME/ THEORY
- 70-GO-03 GOSSLER, W./ ALEFOLD, G./ SPRINGER, T.
 QUASIELASTIC NEUTRON SCATTERING BY HYDROGEN IN NIOBIUM
 J. PHYS. CHEM. SOLIDS, V.31, P.2361 (1970)
 NB-H ..IMPURITY
- 70-GR-01 GRANT, D.M./ PUGMIRE, R.J./ LIVINGSTON, R.C.
 METHYL LIBRATION IN PROPANE MEASURED WITH NEUTRON INELASTIC SCATTERING
 J. CHEM. PHYS., V.52, P.4424-P.4436 (1970)
 PROPANE ..EXPERIMENT/ MOLECULAR DYNAMICS/ TOF
- 70-GU-01 GUPTA, R.P.
 AB INITIO PSEUDOPOTENTIAL CALCULATION OF PHONON FREQUENCIES IN LITHIUM
 SOLID STATE COMMUN., V.8, P.991 (1970)
 LI ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ METAL
- 70-GU-02 GUPTA, H.C./ TRIPATHI, B.B.
 PSEUDOPOTENTIAL AND THE PHONON DISPERSION IN ALUMINUM
 PHYS. REV. B, V.2, P.248 (1970)
 AL ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ METAL
- 70-GU-03 GUPTA, V.D./ DEOPURA, B.L.
 LOW FREQUENCY NEUTRON SPECTRUM OF 1,3,5-TRIAMINO-2,4,6-TRINITROBENZENE
 MOL. PHYS., V.19, P.589-P.592 (1970)
 BENZENE ..EXPERIMENT/ FREQUENCY SPECTRUM
- 70-GU-04 GUPTA, R.K./ GUPTA, N.P.
 ANHARMONIC PHONON SPECTRUM AND HEAT CAPACITIES OF SOLID NEON
 NUOVO CIM., B, V.66, P.1-P.10 (1970)
 NE ..THEORY/ PHONON DISPERSION AND SPECTRUM/ PSEUDOANHARMONIC CENTRAL-FORCE RIGID-ATOM MODEL
- 70-GU-05 GUPTA, V.D./ SINGH, R.D.
 LOW FREQUENCY SPECTRA OF GLYCINE
 CHEM. PHYS. LETT., V.5, P.218-P.220 (1970)
 GLYCINE ..EXPERIMENT/ FREQUENCY SPECTRUM
- 70-HA-01 HARADA, J./ AXE, J.D./ SHIRANE, G.
 DETERMINATION OF THE NORMAL VIBRATIONAL DISPLACEMENTS I

- N SEVERAL PEROVSKITES
 ACTA CRYSTALLOGR., SECT. A, V.26, P.608 (1970)
 K.TA.03/ SR.TI.03/ RB.MN.F3 .EXPERIMENT/INELASTIC STRUC
 CTURE FACTOR/ PHONON EIGENVECTOR/ FERROELECTRICITY
- 70-HA-02 HARLING, O.K.
 HIGH MOMENTUM-TRANSFER NEUTRON-LIQUID-HELIUM SCATTERING
 BOSE CONDENSATION
 PHYS. REV. LETT., V.24, P.1046-P.1048 (1970)
 HE .EXPERIMENT/ EXCITATION CURVE
- 70-HA-03 HARP, G.D./ BERNE, B.J.
 TIME-CORRELATION FUNCTIONS, MEMORY FUNCTIONS, AND MOLEC
 ULAR DYNAMICS
 PHYS. REV. A, V.2, P.975 (1970)
 THEORY-OF-FLUIDS .THEORY/ LIQUID/ MOLECULAR DYNAMICS .
 .MEMORY FUNCTIONS/ TIME CORRELATION FUNCTIONS/ INTERMED
 IATE SCATTERING FUNCTION/ DYNAMIC FORM FACTOR
- 70-HE-01 HEWAT, A.W.
 LATTICE DYNAMICS OF ZN.O AND BE.O
 SOLID STATE COMMUN., V.8, P.187-P.189 (1970)
 ZN.O/ BE.O .THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE
 S
- 70-HO-01 HORNER, H.
 ANHARMONIC PHONONS AND LATTICE SPECIFIC HEAT IN BCC HE
 PHYS. REV., V.25, P.147 (1970)
 HE .THEORY/ PHONON/ SPECIFIC HEAT
- 70-HO-02 HOUMANN, J.C.G./ NICKLOW, R.M.
 LATTICE DYNAMICS OF TERBIUM
 PHYS. REV. B, V.1, P.3943-P.3952 (1970)
 TB .EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES/ C
 ONST. @ METHOD .FREQUENCY SPECTRA/ SPECIFIC HEAT/ DEBY
 E TEMP.
- 70-HU-01 HURRELL, J.P./ MINKIEWICZ, V.J.
 THE CRYSTAL DYNAMICS OF BARIUM FLUORIDE
 SOLID STATE COMMUN., V.8, P.463-P.466 (1970)
 BA.F2 .EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES
 / SPECTRAL DENSITY .SHELL MODEL FIT
- 70-ID-01 IDA, Y.
 ANHARMONICS EFFECT ON HEAT CAPACITY OF SOLIDS UP TO THE
 CRITICAL TEMPERATURE OF LATTICE INSTABILITY
 PHYS. REV. B, V.1, P.2488-P.2496 (1970)
 THEORY-OF-SOLIDS .ANHARMONICITY/ HEAT CAPACITY
- 70-JA-01 JAIN, S.C./ SAXENA, N.S./ BHANDARI, R.C.
 COLLECTIVE ATOMIC MOTIONS IN LIQUID SODIUM
 J. CHEM. PHYS., V.52, P.4629 (1970)
- NA .SCATTERING LAW/ THEORY/ LIQUID/ CORRELATION FUNCTI
 ON .LIQUID METAL/ RESPONSE FUNCTION/ POLARIZATION
- 70-JA-02 JANIK, J.A./ JANIK, J.M./ MAYER, J.
 QUASI-FREE ROTATION OF AMMONIUM ION IN CRYSTALLINE N.H4
 .CL.O4
 INP-726/PS (1970)
 N.H4.CL.O4 .EXPERIMENT/ FREQUENCY SPECTRA
- 70-JA-03 JAYALAKSHMI, K./ VISWAMITHA, M.A.
 DEBYE WALLER FACTORS OF POTASSIUM CHLORIDE
 PHYS. LETT., V.32A, P.83-P.84 (1970)
 K.CL .EXPERIMENT/ X-RAY SCATTERING
- 70-JO-01 JOHNSON, F.A.
 A CLASSICAL THEORY OF LATTICE DYNAMICS
 PROC. ROY. SOC., LONDON, SER. A, V.317, P.279 (197
 0)
 THEORY-OF-SOLIDS .LATTICE DYNAMICS/ THEORY
- 70-KA-01 KADOTANI, H.
 THROUGH A CODE FOR CALCULATING THERMAL NEUTRON SCATTERI
 NG KERNEL
 JAERI-MEMO 4211 (1970)
 COMPUTER-CODES .CODE MANUAL
- 70-KA-02 KAPULLA, H./ GLAESER, W.
 SLOW NEUTRON SCATTERING IN THE LOW TEMPERATURE PHASE OF
 SOLID METHANE
 PHYS. LETT., V.31A, P.2-P.3 (1970)
 C.H4 .EXPERIMENT
- 70-KA-03 KATTIYAR, R.S.
 DYNAMICS OF THE RUTILE STRUCTURE
 J. PHYS., C, LONDON, V.3, P.1087-P.1096 (1970)
 RUTILE .THEORY/ LATTICE DYNAMICS .MULTIPLIER GROUP AP
 PROACH
- 70-KA-04 KATTIYAR, R.S.
 DYNAMICS OF THE RUTILE STRUCTURE -2 LATTICE DYNAMICS OF
 MAGNESIUM FCUORIDE
 J. PHYS., C, LONDON, V.3, P.1693-P.1702 (1970)
 MG.F2 .THEORY/ LATTICE DYNAMICS
- 70-KA-05 KAWASAKI, K.
 LONG TIME BEHAVIOR OF THE VELOCITY AUTOCORRELATION FUNC
 TION
 PHYS. LETT., V.32A, P.379 (1970)
 THEORY-OF-FLUIDS .CORRELATION FUNCTION,
- 70-KE-01 KEARNEY, R.J./ WORLTON, T.G./ SCHMUNK, R.E.
 LATTICE DYNAMICS OF MAGNESIUM STANIDE AT ROOM TEMPERATU

- RE J. PHYS. CHEM. SOLIDS, V.31, P.1085-P.1097 (1970)
Mg2.SN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE
S ..ROOM TEMP./ 3-AXIS SPECTROMETER
- 70-KE-02 KEARNEY, R.J./ WORLTON, T.G./ SCHMUNK, R.E.
APPLICATION OF GROUP THEORY TO THE LATTICE DYNAMICS OF
MAGNESIUM STANNIDE
- Mg2.SN ..THEORY/ LATTICE DYNAMICS/ GROUP THEORETICAL TE
CHNIQUES
- 70-KE-03 KEATING, D.T.
A NOTE ON THE DETERMINATION OF THE DENSITY OF PHONON EI
GENSTATES FROM THE INELASTIC INCOHERENT NEUTRON SCATTER
ING
- J. PHYS. CHEM. SOLIDS, V.31, P.1317-P.1323 (1970)
V ..EXPERIMENT/ PHONON FREQUENCY DISTRIBUTION
- 70-KE-04 KERR, W.C./ SJOELANDER, A.
SELF CONSISTENT FIELD APPROACH TO LATTICE DYNAMICS
PHYS. REV. B, V.1, P.2723-P.2734 (1970)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS
- 70-KE-05 KERR, W.C./ PATHAK, K.N./ SINGWI, K.S.
NEUTRON SCATTERING FROM LIQUID HELIUM II AT LARGE MOMEN
TUM TRANSFER AND THE CONDENSATE FRACTION
PHYS. REV. A, V.2, P.2416-P.2426 (1970)
HELIUM ..THEORY/ LIQUID/ SCATTERING LAW/ GAUSSIAN APPRO
XIMATION ..LARGE MOMENTUM TRANSFER/ ODC
- 70-KI-01 KINE, H.J./ GOYAL, P.S./ VENKATARAMAN, G./ DASANNA
CHARYA, B.A./ THAPER, C.L.
STUDY OF MOLECULAR REORIENTATION IN SOLIDS BY SLOW-NEU
TRON SCATTERING
SOLID STATE COMMUN., V.8, P.889 (1970)
(N,H4)2.S.O4 ..EXPERIMENT/ SOLID/ MOLECULAR ROTATION
- 70-KI-02 KING, W.F./ CUTLER, P.H.
LATTICE DYNAMICS OF BERYLLIUM FROM A FIRST-PRINCIPLES N
ONLOCAL PSEUDOPOTENTIAL APPROACH
PHYS. REV. B, V.2, P.1733 (1970)
BE ..LATTICE DYNAMICS/ THEORY/ SOLID/ DISPERSION RELATI
ON ..HEXAGONAL CLOSE-PACKED CRYSTAL/ PSEUDOPOTENTIAL
- 70-KI-03 KITAGAWA, T.
LATTICE DYNAMICS AND NEUTRON INELASTIC SCATTERING OF PO
LYMER CRYSTALS
JAERI-1197, P.93-P.100 (1970)
AR/ KR/ POLYETHYLENE ..REVIEW/ LATTICE DYNAMICS
- 70-KI-04 KITAGAWA, T./ MIYAZAWA, T.
FREQUENCY DISTRIBUTION AND DISPERSION CURVES OF CRYSTAL
VIBRATIONS OF PERDEUTERATED POLYETHYLENE
POLYMER J., V.1, P.471-P.479 (1970)
POLYETHYLENE ..THEORY/ PHONON DISPERSION/ FREQUENCY SPE
CTRUM/ PERDEUTERATED PE
- 70-KL-01 KLEIN, M.L./ KOEHLER, T.R.
SELF-CONSISTENT PHONON SPECTRUM OF HCP H2 AND D2
J. PHYS., C, LONDON, V.3, P.102 (1970)
H2 ..DISPERSION RELATION
- 70-KL-02 KLEIN, M.L./ KOEHLER, T.R.
LATTICE DYNAMICS OF HCP ORTHO-DEUTERIUM
PHYS. LETT., A, V.33A, P.253 (1970)
D ..LATTICE DYNAMICS/ SOLID
- 70-KL-03 KLUMP, K.N./ SCHNEPP, O./ NOSANOW, L.H.
ONE-PHONON EXCITED STATES OF SOLID H2 AND D2 IN THE ORD
ERED PHASE
PHYS. REV. B, V.1, P.2496 (1970)
H2/ D2 ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID
- 70-KN-01 KNOPOFF, L./ SHAPIRO, J.N.
PSEUDO-GRUENEISEN PARAMETER FOR LIQUIDS
PHYS. REV. B, V.1, P.3893-P.3895 (1970)
THEORY-OF-FLUIDS ..THEORY
- 70-KO-01 KOEHLER, T.R./ GILLIS, N.S./ WALLACE, D.C.
ANHARMONIC INTERACTION IN ALUMINUM, I
PHYS. REV. B, V.1, P.4521 (1970)
AL ..THEORY/ ANHARMONICITY/ PHONON WIDTHS AND LIFETIMES
/ METAL
- 70-KO-02 KOLLMANNBERGER, G./ FRITSCH, G./ LUESCHER, E.
DETERMINATION OF THE STATIC STRUCTURE FUNCTION OF SODIU
M AT 102 AND 149DC (IN GERMANY)
Z. PHYS., V.233, P.308-P.323 (1970)
NA ..EXPERIMENT/ X-RAY/ LIQUID ..STRUCTURE FUNCTION/ 10
2DC/ 149DC
- 70-KO-03 KOROL, E.N.
PHONON DISPERSION IN GA,AS
FIZ. TVERD. TELA (SOV. PHYS. SOLID STATE), V.12 (V
.12), P.644-P.645 (P.497-P.498) (1970 (1970))
GA,AS ..THEORY/ PHONON DISPERSION
- 70-KR-01 KRISHNAN, M.V./ GUPTA, V.D.
VIBRATION SPECTRA OF ALPHA-HELIX OF POLY-ALANINE
CHEM. PHYS. LETT., V.6, P.231-P.234 (1970)
POLYALANINE ..THEORY/ PHONON DISPERSION/ G.F MATRIX/ AL
PHA-HELIX

- 70-KR-02 KRISHNAN, M.V./ GUPTA, V.D.
DISPERSION CURVES OF POLY-ALANINE IN THE BETA-FORM
CHEM. PHYS. LETT., V.7, P.285-P.287 (1970)
POLYALANINE ..THEORY/ PHONON DISPERSION/ G.F MATRIX MET
HOD/ BETA-STRUCTURE
- 70-KU-01 KUCHER, T.I./ TOMASEVICH, O.F.
LATTICE DYNAMICS OF NA.I AND THE FOURIER COMPONENTS OF
THE LAGLESS DIELECTRIC CONSTANT
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.12 (V
.12), P.553-P.556 (P.423-P.425) (1970)
NA.I ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION
- 70-KU-02 KUCHER, T.I./ SHCHUR, I.A.
PHONON DISPERSION IN NA.CL CRYSTALS
UKR. FIZ. ZH., V.15, P.1409 (1970)
NA.CL ..PHONON DISPERSION
- 70-KU-03 KUNC, K./ BALKANSKI, M./ NUSIMOVICI, M.
IONIC CHARGE AND LATTICE DYNAMICS OF CUBIC ZINC SULPHID
E
PHYS. STATUS SOLIDI, V.41, P.491 (1970)
ZN.S ..THEORY/ LATTICE DYNAMICS
- 70-KU-04 KUNG, K./ BALKANSKI, M./ NUSIMOVICI, M.
IONIC CHARGE AND LATTICE DYNAMICS OF CUBIC ZINC SULPHID
E
PHYS. STATUS SOLIDI, V.41, P.491-P.498 (1970)
ZN.S ..THEORY/ PHONON DISPERSION AND SPECTRUM/ TEN PAR
AMETER DEFORMED ION MODEL
- 70-KU-05 KUSHWAHA, S.S./ RAJPUT, J.S.
PHONON DISPERSION RELATIONS OF BODY-CENTERED-CUBIC META
LS
PHYS. REV. B, V.2, P.3943-P.3947 (1970)
THEORY-OF-SOLIDS/ NA/ K ..PHONON DISPERSION CURVE/ META
L/ BCC
- 70-LA-01 LADO, F.
DENSITY AUTOCORRELATION FUNCTION IN A CLASSICAL FLUID F
ROM INITIAL CORRELATIONS
PHYS. REV. A, V.2, P.1467-P.1473 (1970)
NEUTRON-SCATTERING-IN-FLUIDS ..VLASOV EQUATION1 THEORY
..TIME-DEPENDENT DIRECT CORRELATION FUNCTION/ CONTINUED
FRACTION
- 70-LA-02 LAHTEENKORVA, E.E.
AN ELASTIC-CONSTANT MODEL FOR LATTICE DYNAMICS OF HEXAG
ONAL CLOSE-PACKED METALS
SOLID STATE COMMUN., V.8, P.947 (1970)
MG/ Y/ HO ..DISPERSION RELATION/ HARMONIC APPROXIMATION
/ THEORY/ SOLID/ LATTICE DYNAMICS ..ELASTIC CONSTANT/ H
- EXAGONAL CLOSE-PACKED KRYSTAL
- 70-LA-03 LAI, H.W./ SIM, H.K./ WOO, C.W.
DISPERSION OF PHONONS IN LIQUID HE-4
PHYS. REV. A, V.1, P.1536-P.1541 (1970)
HE ..DISPERSION CURVE/ THEORY
- 70-LA-04 LAI, H./ SIM, H./ WOO, C.
DISPERSION OF PHONONS IN LIQUID HE4
PHYS. REV. A, V.1, P.1536 (1970)
HE ..THEORY/ PHONON DISPERSION/ LIQUID
- 70-LE-01 LEADBETTER, A.J./ WRIGHT, A.C.
INELASTIC COLD NEUTRON SCATTERING FROM CRYSTALLINE AND
VITREOUS BERYLLIUM FLUORIDE
J. NON-CRYST. SOLIDS, V.3, P.239 (1970)
BE.F2 ..INELASTIC SCATTERING/ COLD NEUTRON
- 70-LE-02 LEECH, J.W./ REISSLAND, J.A.
ANHARMONIC EFFECTS IN INERT GAS SOLIDS, 1 - ASSESSMENT
OF A NEW APPROXIMATION
J. PHYS., C, LONDON, V.3, P.975 (1970)
NE/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS/ ANHARMONICIT
Y ..THERMODYNAMICAL PROPERTIES
- 70-LE-03 LEECH, J.W./ REISSLAND, J.A.
ANHARMONIC EFFECTS IN INERT GAS SOLIDS, 2 - METHOD APPL
IED TO NE, AR, KR, XE
J. PHYS., C, LONDON, V.3, P.987 (1970)
NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/
DEBYE TEMPERATURE/ THERMAL EXPANSION
- 70-LE-04 LEFKOWITZ, I./ SHIELDS, M./ DOLLING, G./ BUYERS, W
J.L./ COWLEY, R.A.
THE TRANSITION IN SN,TE-GE,TE ALLOYS
J. PHYS. SOC. JAPAN, V.28 SUPPLEMENT, PROCEEDING O
F THE SECOND INTERNATIONAL MEETING ON FERROELECTRI
CITY, P.249-P.251 (1970)
SN,TE ..EXPERIMENT/ SN0,94,GE0,05,TE/ PHONON DISPERSION
- 70-LE-05 LEUNG, P.S./ SAFFORD, G.J.
A NEUTRON INELASTIC SCATTERING INVESTIGATION OF THE CON
CENTRATION AND ANION DEPENDENCE OF COW FREQUENCY MOTION
S OF H2,O MOLECULES IN IONIC SOLUTIONS,
J. PHYS. CHEM. SOLIDS, V.74, P.3696-P.3717 (1970)
LI,CL-H2,O/ MG,CL2-H2,O/ CS,CL-H2,O/ K,CL-H2,O/ NA,CL-H
2,O/ LA,(N,03)3-H2,O/ ..EXPERIMENT/ LOW FREQUENCY MOTIO
N OF H2,O IN SOLUTION
- 70-LE-06 LEUNG, P.S./ SANBORN, S.M./ SAFFORD, G.J.
A NEUTRON INELASTIC SCATTERING OF THE H2,O MOLECULES IN

AQUEOUS SOLUTIONS AND SOLID-GLASSES OF LANTHANUM NITRATE AND CHROMIC CHLORIDE
 J. PHYS. CHEM. SOLIDS, V.74, P.3710-P.3717 (1970)
 LA.(N.03)3-H2.O/ CR.CL3-H2.O/ LA.CL3-H2.O : EXPERIMENT/ H2.O MOTION IN SOLUTION AND GLASS STATE

70-LO-01 LOGAN, K.W./ TREVINO, S.F./ PRASK, H.J./ GAULT, J. D.
 INELASTIC NEUTRON SCATTERING FROM SOLID BENZENE
 J. CHEM. PHYS., V.53, P.3417-P.3420 (1970)
 BENZENE ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ..77
 7.K TO 270.K

70-LO-02 LOWDES, R.P.
 INFLUENCE OF LATTICE ANHARMONICITY ON THE LONGITUDINAL OPTIC MODES OF CUBIC SOLIDS
 PHYS. REV. B, V.1, P.2754-P.2763 (1970)
 K.BR ..ANHARMONICITY ..DIELECTRIC CONSTANT

70-LU-01 LUTY, T./ JANIK, J.A./ BAJOREK, A./ NATKANIEC, I./ DOMOSLAWSKI, J.//
 LATTICE DYNAMICS OF THE ACENAPHTHENE CRYSTAL
 INP-724/PL (1970)
 ACENAPHTHENE ..EXPERIMENT/ THEORY/ FREQUENCY SPECTRUM/ LATTICE DYNAMICS

70-LU-02 LUTZ, U.A./ HAELG, W.
 LATTICE DYNAMICS OF DEUTERATED ANTHRACENE
 SOLID STATE COMMUN., V.8, P.165 (1970)
 ANTHRACENE ..THEORY/ EXPERIMENT/ SOLID ..COHERENT INELASTIC NEUTRON SCATTERING/ PHONON DISPERSION CURVE/ COMPARISON WITH ULTRASONIC, INFRARED, RAHMAN MEASUREMENTS

70-LU-03 LUTZ, U.
 PHONON DISPERSION OF ANTHRACENE
 EIR-159 (1970)
 ANTHRACENE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRUM

70-MA-01 MACHIDA, K.
 SKELETAL DEFORMATION VIBRATIONS OF POLYETHYLENE CHAIN
 JAEERI-1197, P.101-P.108 (1970)
 POLYETHYLENE ..THEORY/ EFFECT OF END GROUP VIBRATION/ DISPERSION CURVES

70-MA-02 MAELAND, A.
 VIBRATION SPECTRA OF THE ORTHORHOMBIC ALKALINE-EARTH HYDRIDES BY THE INELASTIC SCATTERING OF COLD NEUTRONS AND BY INFRARED TRANSMISSION MEASUREMENTS
 J. CHEM. PHYS., V.52, P.3952-P.3956 (1970)
 YB-H/ CA-H/ SR-H/ BA-H ..EXPERIMENT/ FREQUENCY SPECTRUM

70-MA-03 MALISZEWSKI, E.F./ SOSNOWSKI, J./ CZACHOR, A.
 LATTICE DYNAMICS OF THE PD-1 PER CENT FE
 INR-P-1226/ 2/ PS (1970)
 PD-FE ..EXPERIMENT/ PHONON DISPERSION CURVE

70-MA-04 MARIS, H.J./ MASSEY, W.E.
 PHONON DISPERSION AND THE PROPAGATION OF SOUND IN LIQUID HELIUM-4 BELOW 0.6 DEG. K.
 PHYS. REV. LETT., V.25, P.220 (1970)
 HE ..THEORY/ PHONON DISPERSION

70-MA-05 MARTINELLI, L.
 THERMOELECTRIC, BAND STRUCTURE AND PHONON FREQUENCIES OF F NA FROM THE PSEUDOPOTENTIAL METHOD
 NUOVO CIM., B, V.70, P.58-P.72 (1970)
 NA ..THEORY/ BAND STRUCTURE/ PHONON DISPERSION/ PSEUDOPOTENTIAL MODEL

70-MI-01 MILLER, S.A./ RAST, H.E./ CASPERS, H.H.
 LATTICE VIBRATIONS OF LI.Y.F4
 J. CHEM. PHYS., V.52, P.4172-P.4175 (1970)
 LI.Y.F4 ..EXPERIMENT ..RAMAN SCATTERING

70-MI-02 MISENTA, R./ OLIVI, L.
 SLOW NEUTRON SCATTERING BY SOLID ORTHO-HYDROGEN BELOW THE LAMBDA-TEMPERATURE
 SOLID STATE COMMUN., V.8, P.373-P.375 (1970)
 H2 ..THEORY/ DIFFERENTIAL CROSS SECTION

70-NA-01 NAKAHARA, Y.
 THERMAL NEUTRON SCATTERING FROM SIMPLE LIQUID METALS
 JAEERI-MEMO-4191 (1970)
 NA ..THEORY/ SCATTERING LAW/ LIQUID ..VLASOV EQUATION/ LIQUID METAL

70-NI-01 NISHIGORI, T.
 QUASICLASSICAL APPROXIMATION FOR SLOW NEUTRON SCATTERING
 PROGR. THEORET. PHYS., KYOTO, V.43, P.1423-P.1444 (1970)
 SCATTERING-THEORIES ..THEORY/ QUASICLASSICAL APPROXIMATION

70-NU-01 NUSIMOVICI, M.A./ BALKANSKI, M./ BIRMAN, J.L.
 LATTICE DYNAMICS OF WURTZITE, CD.S, 2
 PHYS. REV. B, V.1, P.595-P.603 (1970)
 CD.S ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES/ FREQUENCY SPECTRUM ..SEMI-IONIC COMPOUNDS

70-OL-01 OLIVI, L.
 THE SCATTERING OF SLOW NEUTRONS BY ORTHO-HYDROGEN

- EUR-4496E (1970).
HYDROGEN . . MOLECULAR ROTATION/ SIGMA(THETA.E) . . DIFFERENTIAL CROSS SECTION
- 70-OR-01 ORTOLEVA-JR, P. J.
COLLECTIVE AND PARTICLE MODES IN THE CLASSICAL LIQUID
NYO-3326-29, P. 1-P. 116 (1970)
NEUTRON-SCATTERING-IN-FLUIDS . . VLASOV EQUATION/ THEORY
- 70-OR-02 ORTOLEVA, P./ NELKIN, M.
COLLECTIVE AND SINGLE-PARTICLE EFFECTS IN AUTOCORRELATION FUNCTION FOR DENSE CLASSICAL FLUIDS
PHYS. REV. A, V. 2, P. 187-P. 195 (1970)
NEUTRON-SCATTERING-IN-FLUIDS . . THEORY/ VLASOV EQUATION/ COLLECTIVE MODES
- 70-PA-01 PAL, S.
DISPERSION OF LATTICE WAVES IN SILVER (LETTERS)
J. PHYS., C, LONDON, V. 3, P. 149-P. 151 (1970)
SI . . THEORY/ DISPERSION RELATION
- 70-PA-02 PAL, S.
FREQUENCY SPECTRUM AND DEBYE TEMPERATURE OF RUBIDIUM
J. PHYS., C, LONDON, V. 3, P. 182 (1970)
RB . . THEORY/ FREQUENCY SPECTRUM/ DEBYE TEMP.
- 70-PA-03 PAL, S.
PHONON DISPERSION IN LITHIUM
PHYS. REV. B, V. 2, P. 4741-P. 4742 (1970)
LI . . THEORY/ LATTICE VIBRATION/ DISPERSION/ SHARM-JOSHI MODEL
- 70-PA-04 PARKS, D. E./ NELKIN, M. S./ BEYSTER, J. R./ WIKNER, N. F.
SLOW NEUTRON SCATTERING AND THERMALIZATION, WITH REACTOR APPLICATION
W. A. BENJAMIN, INC. NEW YORK (1970)
REVIEW-ARTICLES . . BOOK/ THEORY/ EXPERIMENT/ NEUTRON SCATTERING/ REACTOR PHYSICS
- 70-PA-05 PATHAK, K. N./ SINGWI, K. S.
COLLECTIVE MOTIONS IN CLASSICAL LIQUIDS. II
PHYS. REV. A, V. 2, P. 2427-P. 2434 (1970)
THEORY-OF-FLUIDS/ ARGON . . THEORY/ LIQUID/ SCATTERING LAW / GAUSSIAN APPROXIMATION
- 70-PA-06 PAUL, G. L./ COCHRAN, W./ BUYERS, W. J. L./ COWLEY, R. A.
FERROELECTRIC TRANSITION IN K₂O₂. P. 04
PHYS. REV. B, V. 2, P. 4603-P. 4612 (1970)
K₂O₂. P. 04 . . EXPERIMENT/ THEORY/ PHASE TRANSITION/ NEUTRON SCATTERING
- 70-PA-07 PAWLEY, G. S./ CYVIN, S. J.
LATTICE VIBRATIONS IN CRYSTALS WITH DEFORMABLE MOLECULES. A CALCULATION FOR NAPHTHALENE
J. CHEM. PHYS., V. 52, P. 4073 (1970)
NAPHTHALENE . . THEORY/ DISPERSION RELATION/ MOLECULAR DYNAMICS/ SOLID
- 70-PI-01 PICKETT, H. M./ STRAUSS, H. L.
VIBRATIONAL SPECTRA AND POTENTIAL FUNCTION OF CYCLOHEXANE AND RELATED OXANIES
J. CHEM. PHYS., V. 53, P. 376 (1970)
CYCLOHEXANE . . EXPERIMENT/ THEORY/ MOLECULAR VIBRATION/ INTERATOMIC FORCE CONSTANT. . FG-METHOD
- 70-PI-02 PINES, D./ WOO, C.
SUM RULES, STRUCTURE FACTORS, AND PHONON DISPERSION IN LIQUID HE (A=4) AT LONG WAVELENGTHS AND LOW TEMPERATURE
S
PHYS. REV. LETT., V. 24, P. 1044-P. 1045 (1970)
HE . . THEORY/ STRUCTURE FACTOR/ PHONON DISPERSION/ LIQUID
- 70-PL-01 PLAKIDA, N. M./ SIKLOS, T.
THEORY OF ANHARMONIC CRYSTALS. 3, THREE-DIMENSIONAL LATTICE
PHYS. STATUS SOLIDI, V. 39, P. 171-P. 180 (1970)
THEORY-OF-SOLIDS . . ANHARMONIC THREE DIMENSIONAL LATTICE / F.C.C. LATTICE
- 70-PO-01 POLLING, G./ POWELL, B. M.
INTERMOLECULAR DYNAMICS OF HEXAMETHYLENETETRAMINE
PROC. ROY. SOC., LONDON, SER. A, V. 319, P. 209-P. 235 (1970)
HEXAMETHYLENETETRAMINE . . EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION . . MODEL FITTING/ FREQUENCY DISTRIBUTION/ SPECIFIC HEAT
- 70-PR-01 PRAKASH, S./ JOSHI, S. K.
PHONON FREQUENCIES OF THE HEXAGONAL METALS BE, MG, AND ZN
PHYS. REV. B, V. 1, P. 1468-P. 1478 (1970)
BE/ MG/ ZN . . THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION . . SINGLE-ORTHOGONALIZED-PLANE-WAVE ELECTRON-ION MATRIX AND DIELECTRICFUNCTION/ HEXAGONAL METAL
- 70-PR-02 PRICE, D. L./ SINGWI, K. S./ POSTI, M. P.
LATTICE DYNAMICS OF ALKALI METAL IN THE SELF-CONSISTENT SCREENING THEORY
PHYS. REV. B, V. 2, P. 2983-P. 2999 (1970)
NA/ K/ LI/ RB . . THEORY/ DISPERSION RELATION . . PHONON LIFE TIMES DUE TO ELECTRON-PHONON INTERACTION

- 70-PR-03 PRICE, D.L./ SHYU, W.W./ SINGWI, K.S./ TOSI, M.P.
A TABULATION OF THE INTERIONIC POTENTIAL IN THE ALKALI METALS
ANL-7761 (1970)
COMPILATIONS ..SOLID/ THEORY ..PAIR POTENTIAL/ METAL
- 70-PU-01 PUFF, R.D./ TENN, J.S.
HIGH-ENERGY NEUTRON-LIQUID HE4-SCATTERING AND THE HE4 C
ONDENSATE DENSITY
PHYS. REV. A, V.1, P.125 (1970)
HE ..THEORY
- 70-RA-01 RAFIZADEH, H.A./ YIP, S.
LATTICE DYNAMICS OF HEXAMINE, A RIGID, MOLECULAR APPROX
IMATION
J. CHEM. PHYS., V.53, P.315 (1970)
HEXAMETHYLENETETRAMINE ..THEORY/ LATTIC DYNAMICS
- 70-RA-02 RAMAESHAN, S./ VISWANATHAN, K.S.
ANOMALOUS NEUTRON SCATTERING BY CRYSTALS AND THE AMPLIT
UDES OF VIBRATION OF LATTICE WAVES
ACTA CRYSTALLOGR., SECT. A, V.26, P.364 (1970)
CD.S ..ANOMALOUS SCATTERING
- 70-RA-03 RAO, K.R./ TREVINO, S.F./ LOGAN, K.W.
LATTICE DYNAMICS OF SODIUM NITRATE, A GROUP-THEORETICAL
ANALYSIS
J. CHEM. PHYS., V.53, P.4645-P.4661 (1970)
NA.N.03 ..THEORY/ GROUP-THEORETICAL ANALYSIS/ LATTICE D
YNAMICS
- 70-RA-04 RAO, K.R./ TREVINO, S.F.
LATTICE DYNAMICS OF POTASSIUM AZIDE, A GROUP-THEORETICA
L ANALYSIS
J. CHEM. PHYS., V.53, P.4661-P.4687 (1970)
K.N3 ..THEORY/ LATTICE DYNAMICS/ GROUP-THEORETICAL ANAL
YSIS
- 70-RA-05 RAO, K.R./ TREVINO, S.F.
LATTICE DYNAMICS OF SODIUM AZIDE, A GROUP-THEORETICAL A
NALYSIS
J. CHEM. PHYS., V.53, P.4624-P.4645 (1970)
NA.N3 ..THEORY/ LATTICE DYNAMICS/ GROUP-THEORETICAL ANA
LYSIS
- 70-RA-06 RAO, K.R.
ATOMIC CORRELATIONS IN LIQUIDS
PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE
PHYSICS SYMPOSIUM, DAE, BOMBAY, V.1, P.88-P.110 (1
970)
REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS ..ATOMIC
- CORRELATION/ LIQUID
- 70-RA-07 RAUNIO, G./ ROLANDSON, S.
LATTICE DYNAMICS OF NA,CL, K,CL, RB,CL AND RB,F
AE-384 (1970)
NA,CL/ K,CL/ RB,CL/ RB,F ..SHELL MODEL FITTING/ FREQUEN
CY SPECTRUM/ DEBYE TEMPERATURE
- 70-RA-08 RAUNIO, G./ ROLANDSON, S.
PHONON DISPERSION RELATIONS IN RB,CL AND RB,F AT 80 K
J. PHYS., C, LONDON, V.3, P.1013-P.1025 (1970)
RB,CL/ RB,F ..EXPERIMENT/ CONST-@/ LATTICE DYNAMICS/ D
ISPERSION RELATION ..80DK/ DEFORMED DIPOL-NEXT-NEAREST-
NEIGHBOURS MODEL CALCULATION
- 70-RA-09 RAUNIO, G./ ROLANDSON, S.
LATTICE DYNAMICS OF NA,CL,K,CL, RB,CL AND RB,F
PHYS. REV. B, V.2, P.2098-P.2103 (1970)
NA,CL/ K,CL/ RB,CL/ RB,F ..THEORY/ DISPERSION CURVES/ S
HELL MODEL
- 70-RA-10 RAUNIO, G./ ROLANDSON, S.
LATTICE DYNAMICS OF RB,I AT 80DK
PHYS. STATUS SOLIDI, V.40, P.749-P.757 (1970)
RB,I ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTI
NG
- 70-RE-01 REID, J.S./ SMITH, T./ BUYERS, W.J.L.
PHONON FREQUENCIES IN NA,BR
PHYS. REV. B, V.1, P.1833-P.1844 (1970)
NA,BR ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATI
ON/ FREQUENCY DISTRK ..295DK/ RIGID SHELL AND DEFORMABLE
SHELL MODEL FITTING
- 70-RE-02 REID, J.S./ SMITH, T.
IMPROVED DEBYE-WALLER FACTORS FOR SOME ALKALI-HALIDES
J. PHYS. CHEM. SOLIDS, V.31, P.2689 (1970)
NA,F/ NA,CL/ NA,BR/ NA,I/ K,CL/ K,BR ..THEORY/ SOLID/ D
EBYE-WALLER FACTOR ..SHELL MODEL/ ROOT SAMPLING METHOD
- 70-RI-01 RICE, T.M./ HALPERIN, B.I.
KOHN ANOMALIES IN TUNGSTEN AND OTHER CR-GROUP METALS
PHYS. REV. B, V.1, P.509-P.516 (1970)
CR ..THEORY/ LATTICE VIBRATION ..FERMI SURFACE/ ELECTRON
SUSCEPTIBILITY/ EFFECT OF THE KOHN ANOMALIES ON PHONON
SPECTRUM AND LIFETIME
- 70-RI-02 RIEDER, K.H.
LOCALIZED IMPURITY MODES AND FORCE CONSTANT CHANGES IN
DILUTE CUBIC ALLOYS
ACTA PHYS. AUSTR., V.32, P.290-P.298 (1970)
THEORY-OF-SOLIDS ..THEORY/ LIGHT IMPURITY MODE/ ESTIMAT

- ION OF FORCE CONSTANT CHANGE
- 70-RI-03 RIEDER, K.H.
LOCALIZED IMPURITY MODES AND FORCE CONSTANT CHANGES IN
DILUTE CUBIC ALLOYS
SGAE-M-30/1970 (1970)
THEORY-OF-SOLIDS ..THEORY/ LIGHT IMPURITY MODE/ ESTIMAT
ION OF FORCE CONSTANT CHANGE
- 70-RO-01 ROSS, R.G.
THE HARD-SPHERE MODEL FOR A LIQUID METAL . A COMPARISON
WITH EXPERIMENT
PHIL. MAG., V.22, P.573 (1970)
THEORY-OF-FLUIDS ..STRUCTURE FACTOR/ SIGMA(THETA.E) ..C
OMPRESSIBILITY/ LIQUID METAL
- 70-RO-02 ROTHSCHILD, W.G.
MOLECULAR MOTION IN LIQUIDS, ON THE PREVALENCE OF LARGE
-SIZE ROTATIONAL AND TRANSLATIONAL DIFFUSION STEPS
J. CHEM. PHYS., V.53, P.3265 (1970)
THEORY-OF-FLUIDS ..LIQUID/ THEORY
- 70-RO-03 ROY, A.P./ BROCKHOUSE, B.N.
LATTICE FREQUENCY SPECTRA OF PB AND PB40-TL60 BY NEUTRO
N SPECTROMETRY
CAN. J. PHYS., V.48, P.1761 (1970)
PB/ PB-TL ..EXPERIMENT/ FREQUENCY SPECTRA/ POLYCRYSTALL
INE SAMPLES/ TRIPLE AXIS SPECTROMETER/ PHONON LIFETIME/
FORCE-CONSTANT DISORDER/ ALLOY
- 70-RU-01 RUBIN, R./ CLAESSEN, Y.
INELASTIC AND QUASI-ELASTIC SCATTERING OF SUBTHERMAL NE
UTRONS IN TB-H AND NB-H
SOLID STATE COMMUN., V.8, P.1321 (1970)
TB-H/ NB-H ..SOLID/ QUASI-ELASTIC PEAK
- 70-SA-01 SABINE, T.M./ SVENSON, C.
THE SCATTERING OF LONG WAVELENGTH NEUTRONS BY NEUTRON I
RRADIATED MAGNESIUM OXIDE
J. PHYS., C, LONDON, V.3, P.86-P.89 (1970)
MG.O ..EXPERIMENT/ TOTAL SCATTERING SIGMA ..DEFECT CLUS
TER SCATTERING
- 70-SA-02 SAKURAJ, J./ COWLEY, R.A./ DOLLING, G.
CRYSTAL DYNAMICS AND THE FERROELECTRIC PHASE TRANSITION
OF SODIUM NITRITE
J. PHYS. SOC. JAP., V.28, P.1426-P.1445 (1970)
NA.N.O3 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ DISPERSION R
ELATION
- 70-SA-03 SAMUELSEN, E.J./ SHIRANE, G.
IC INTERACTIONS IN ALPHA-FE2.O3
- INELASTIC NEUTRON SCATTERING INVESTIGATION OF SPIN WAVE
S AND MAGNET
PHYS. STATUS SOLIDI, V.42, P.241-P.256 (1970)
FE2.O3 ..EXPERIMENT/ SPIN WAVE DISPERSION/ 240, 290DK/
PARAMETE FITTING/ MAGNON DENSITY OF STATES
- 70-SA-04 SANDSTROEM, R./ HOEGBERG, T.
ANHARMONIC WIDTHS AND SHIFTS IN SIMPLE METALS, APPLICAT
ION TO ALUMINIUM
J. PHYS. CHEM. SOLIDS, V.31, P.1595-P.1611 (1970)
AL ..THEORY/ ANHARMONICITY/ PHONON WIDTHS AND LIFETIMES
/ METAL
- 70-SA-05 SANGSTER, M.J.L./ PECKHAM, G./ SAUNDERSON, D.H.
LATTICE DYNAMICS OF MAGNESIUM OXIDE
J. PHYS., C, LONDON, V.3, P.1026-P.1036 (1970)
MG.O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES
..BREATHING SHELL MODEL/ FREQUENCY SPECTRUM/ HOT NEUTRO
N SOURCE
- 70-SC-01 SCHMUNK, R.E.
LATTICE DYNAMICS OF SODIUM CHLORIDE AT ROOM TEMPERATURE
J. PHYS. CHEM. SOLIDS, V.31, P.131 (1970)
NA.CL ..LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENC
Y DISTRIBUTION/ THEORY/ SOLID
- 70-SC-02 SCHMUNK, R.E./ WINDER, D.R.
LATTICE DYNAMICS OF SODIUM CHLORIDE AT ROOM TEMPERATURE
J. PHYS. CHEM. SOLIDS, V.31, P.131 (1970)
NA.CL ..PHONON DISPERSION
- 70-SC-03 SCHNEIDER, T./ BROUT, R./ THOMAS, H./ FEDER, J.
DYNAMICS OF THE LIQUID-SOLID TRANSITION
PHYS. REV. LETT., V.25, P.1423 (1970)
AR ..THEORY
- 70-SC-04 SCHOTT, W.
INELASTIC SCATTERING OF SLOW NEUTRON BY SOLID AND LIQUI
D HYDROGEN
Z. PHYS., V.231, P.243-P.265 (1970)
H ..EXPERIMENT
- 70-SC-05 SCOTT, J.F.
HYBRID PHONONS AND ANHARMONIC INTERACTIONS IN AL.P.O4
PHYS. REV. LETT., V.24, P.1107-P.1110 (1970)
AL.P.O4 ..ANHARMONICITY/ EXPERIMENT/ RAMAN
- 70-SC-06 SCOTT, W./ RIETSCHEL, H.
NEUTRON SCATTERING FROM SOLID HYDROGEN
KFK-1327 (1970)
H ..EXPERIMENT/ PHONON STATE DENSITY/ QUADRUPOLE INTERA
CTION CONSTANT

- 70-SE-01 SEARS, V.F.
HIGH-ENERGY NEUTRON SCATTERING FROM LIQUID HE4, II. INTENSITY
REFERENCE AND TEMPERATURE EFFECTS
PHYS. REV. A, V.1, P.1699 (1970)
HE ..THEORY/ LIQUID
- 70-SH-01 SHAPIRO, J.N.
LINDEMANN LAW AND LATTICE DYNAMICS
PHYS. REV. B, V.1, P.3982-P.3989 (1970)
THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ THEORY, .LATTICE
DYNAMICAL CALCULATION OF LINDEMANN LAW FOR MELTING
POINT/ ALKALI METAL
- 70-SH-02 SHAPIRO, J.N./ KNOPOFF, L.
GREUNEISEN PARAMETER FOR BORN-VON KARMAN LATTICE
PHYS. REV. B, V.1, P.3990-P.3992 (1970)
THEORY-OF-SOLIDS ..THEORY
- 70-SH-03 SHARAN, B./ BAJPAI, R.P.
LATTICE DYNAMICS OF HEXAGONAL METALS BASED ON A NEW ELECTRON
ION INTERACTION
J. PHYS. SOC. JAP., V.28, P.338-P.345 (1970)
BE/ MG/ TL ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
ION ..HEXAGONAL METAL
- 70-SH-04 SHARAN, B./ BAJPAI, R.P.
LATTICE DYNAMICS OF SILVER BASED ON THE MODELS OF DAYAL
AND SHARMA
J. PHYS. SOC. JAP., V.28, P.334-P.337 (1970)
AG ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATIONS/ SPECIFIC
HEAT
- 70-SH-05 SHARAN, B./ BAJPAI, R.P.
LATTICE DYNAMICS OF ZIRCONIUM AND HAFNIUM
J. PHYS. SOC. JAP., V.29, P.66-P.68 (1970)
ZR/ HF ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE
TEMPERATURE
- 70-SH-06 SHARAN, B./ BAJPAI, R.P.
LATTICE DYNAMICS OF HEXAGONAL-TRANSITION METAL BASED ON
NEW ELECTRON FORCE MODEL
J. PHYS. SOC. JAP., V.29, P.46-P.49 (1970)
Y/ TI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE
TEMPERATURE
- 70-SH-07 SHIRANE, G./ AXE, J.D.
SOFT FERROELECTRIC MODES IN LEAD TITANATE
PHYS. REV. B, V.2, P.155 (1970)
PB.TI.03 ..EXPERIMENT/ DISPERSION RELATION/ FERROELECTRICITY
- 70-SH-08 SHIRANE, G./ AXE, J.D./ HARADA, J./ LINZ, A.
INELASTIC NEUTRON SCATTERING FROM SINGLE-DOMAIN BaTiO₃
PHYS. REV. B, V.2, P.3651-P.3657 (1970)
BA.TI.03 ..EXPERIMENT/ LATTICE DYNAMICS
- 70-SH-09 SHIRANE, G./ MINKIEWICZ, V.J./ LINZ, A.
NEUTRON SCATTERING STUDY OF THE LATTICE DYNAMICAL PHASE
TRANSITIONS IN K₂MnF₃
SOLID STATE COMMUN., V.8, P.1941 (1970)
K.MN.F3 ..PHONON DISPERSION/ PHASE TRANSITION
- 70-SI-01 SIKLOS, T.
THEORY OF ANHARMONIC CRYSTALS IN PSEUDOHARMONIC APPROXIMATION I.
LINEAR CHAIN
JINR-E4-5389 (1970)
THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY ..LINEAR CHAIN /
PSEUDOHARMONIC APPROXIMATION/ MORSE POTENTIAL
- 70-SI-02 SIKLOS, T.
THEORY OF ANHARMONIC CRYSTALS IN PSEUDOHARMONIC APPROXIMATION II.
THREE-DIMENSIONAL LATTICE
JINR-E4-5390 (1970)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ ANHARMONICITY ..PSEUDOHARMONIC
APPROXIMATION/ MORSE POTENTIAL
- 70-SI-03 SINGH, N./ JOSHI, S.K.
NONLOCAL PSEUDOPOTENTIAL FORMULATION FOR LATTICE DYNAMICS
CS, II
PHYSICA, V.47, P.277 (1970)
THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE
DYNAMICS ..PSEUDOPOTENTIAL/ METAL
- 70-SI-04 SINGH, S.N./ PRAKASH, S.
PHONON DISPERSION IN ALKALI METALS
PHYSICA, V.50, P.10 (1970)
LI/ RB/ K/ CS/ ..THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION
RELATION ..ALKALI METAL
- 70-SI-05 SINGH, R.K./ VERMA, M.P.
LATTICE DYNAMICS OF SODIUM HALIDES
PHYS. REV. B, V.2, P.4289 (1970)
NA.F/ NA.BR/ NA.CL/ NA.I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION
RELATION ..MODIFIED SHELL MODEL/ DEBYE TEMPERATURE
- 70-SI-06 SINGH, B.D./ DAYAL, B.
CRYSTAL VIBRATIONS OF SILICON BY THE USE OF VALENCE FORCE
POTENTIALS
PHYS. STATUS SOLIDI, V.38, P.141-P.149 (1970)
SI ..THEORY/ PHONON DISPERSION/ SIX VALENCE FORCE MODEL

- 70-SI-07 SINHA, S.K./ BRUN, T.O./ MUHLESTEIN, L.D./ SAKURAI
 J.
 LATTICE DYNAMICS OF YTTRIUM AT 295K
 PHYS. REV. B, V.1, P.2430-P.2441 (1970)
 Y ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION .
 MODIFIED AXIALLY SYMMETRIC MODEL FITTING/ FREQUENCY DI
 STRIBUTION/ SPECIFIC HEAT/ DEBYE TEMP
- 70-SI-08 SINHA, S.K./ BRUN, T.O./ MUHLESTEIN, L.D./ SAKURAI
 J.
 LATTICE DYNAMICS OF YTTRIUM AT 295K
 PHYS. REV. B, V.1, P.2430-P.2441 (1970)
 Y ..EXPERIMENT/ LATTICE DYNAMICS/ AS-MODEL FITTING/ FRE
 QUENCY SPECTRA/ SPECIFIC HEAT
- 70-SK-01 SKALYO-JR, J./ FRAZER, B.C./ SHIRANE, G.
 FERROELECTRIC-MODE MOTION IN K₂D₂P₀₄
 PHYS. REV. B, V.1, P.278-P.286 (1970)
 K.H₂P₀₄ ..EXPERIMENT/ OVERDAMPED PHONON MODE/ K₂D₂P₀₄
- 70-SL-01 SLAGGIE, E.L.
 THERMAL EXPANSION AND PHONON-FREQUENCY SHIFTS IN NONPRI
 MITIVE LATTICES
 PHYS. REV. B, V.2, P.2230 (1970)
 THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ SOLID
- 70-SM-01 SMITH, H.G./ GLAESER, W.
 PHONON SPECTRA IN TA₂C AND HF₂C
 PHYS. REV. LETT., V.25, P.1611-P.1613 (1970)
 TA₂C/ HF₂C ..EXPERIMENT/ DISPERSION RELATION
- 70-SO-01 SOLBIG, A.W.
 VALENCE FORCE POTENTIALS FOR CALCULATING CRYSTAL VIBRAT
 IONS IN SILICON
 IN-1424 (1970)
 SI ..THEORY/ SOLID/ DISPERSION RELATION/ LATTICE DYNAMI
 CS/ FORCE CONSTANTS ..VALENCE FORCE
- 70-ST-01 STIRLING, G.C./ LUDMAN, C.J./ WADDINGTON, T.C.
 INELASTIC NEUTRON SCATTERING SPECTRA AND RAMAN SPECTRA
 OF CS₂, H₂CL₂ AND CS₂D₂CL₂
 J. CHEM. PHYS., V.52, P.2730-P.2735 (1970)
 CS₂, H₂CL₂ ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY SP
 ECTRA ..COLD NEUTRON SOURCE
- 70-ST-02 STRONG, K.A./ BRUGGER, R.M./ PUGMIRE, R.J.
 VIBRATIONAL MODES IN ETHYL CHLORIDE MEASURED BY NEUTRON
 SCATTERING
 J. CHEM. PHYS., V.52, P.224 (1970)
 ETHYL CHLORIDE ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ LI
- QUID/ SOLID
- 70-TA-01 TANI, K.
 THEORY OF NEUTRON SCATTERING FROM LATTICE VIBRATIONS
 J. PHYS. SOC. JAP., V.29, P.594-P.605 (1970)
 NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LATTICE VIBRATIO
 N/ GENERALIZED THEORY OF NEUTRON SCATTERING
- 70-TA-02 TAYLOR, P.L./ WU, S.Y.
 DYNAMICS OF DISORDERED ALLOYS AND GLASSES
 PHYS. REV. B, V.2, P.1752-P.1757 (1970)
 THEORY-OF-SOLIDS ..GLASS/ DISORDERED LATTICE/ FREQUENCY
 SPECTRUM ..AMORPHOUS
- 70-TH-01 THAPER, C.L./ DASANNACHARYA, B.A./ SEQUEIRA, A./ I
 YENGAR, P.K.
 OBSERVATION OF LIBRATIONAL MODES OF WATER MOLECULES IN
 SINGLE CRYSTAL HYDRATES BY NEUTRON SCATTERING
 SOLID STATE COMMUN., V.8, P.497-P.499 (1970)
 BA.(CL.O3)2.H₂O/ K₂C₂O₄.H₂O ..EXPERIMENT/ HYDRATES/
 LIBRATION OF H₂O IN HYDRATES
- 70-TO-01 TONG, E./ RASHMI, C./ DESAI, C.
 DENSITY FLUCTUATIONS IN SINGLE-COMPONENT FLUIDS
 PHYS. REV. A, V.2, P.2129-P.2139 (1970)
 THEORY-OF-FLUIDS ..GENERAL THEORY
- 70-TR-01 TRYLOR, J.G.
 LATTICE DYNAMICS OF RUTILE
 TID-25720 (1970)
 TI.O₂ ..EXPERIMENT/ DISPERSION RELATION/ RIGID ION MODE
 L/ SHELL MODEL/ FREQUENCY SPECTRUM/ DIELECTRIC CONSTANT
- 70-UP-01 UPADHYANA, K.S./ SINGH, K.K.
 DISPERSION PROPERTIES OF MANGANESE OXIDE
 SOLID STATE COMMUN., V.11, P.109 (1970)
 MN.O ..THEORY/ DISPERSION RELATIONS
- 70-VA-01 VADOVIC, C.J./ COLVER, C.P.
 TEMPERATURE DEPENDENCE OF SELF-DIFFUSION IN LIQUID META
 LS
 PHIL. MAG., V.21, P.971-P.976 (1970)
 AG/ GA/ HG/ NA/ PB/ SN/ ZN ..THEORY/ SELF-DIFFUSION CON
 STANT
- 70-VA-02 VAN-DIJK, C.
 LATTICE DYNAMICS OF FE₃-AL
 PHYS. LETT., A, V.32, P.255-P.256 (1970)
 FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES
 ..BORN VON-KARMAN FIT/ 3RD NEIGHBOURS/ FE₃-AL

- 70-VA-03 VAN-DIJK, C.
INVESTIGATION OF THE LATTICE DYNAMICS OF ALPHA-Fe AND F
E3-AL BY NEUTRON INELASTIC SCATTERING
RCN-129 (1970)
FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ PHONON DISPER
SION
- 70-VE-01 VENKATARAMAN, G./ SAHNI, V.C.
EXTERNAL VIBRATIONS IN COMPLEX CRYSTALS
REV. MOD. PHYS., V.42, P.409-P.470 (1970)
THEORY-OF-SOLIDS/ REVIEW-ARTICLES ..FORMAL THEORY/ MOLE
CULAR CRYSTAL/ COMPLEX IONIC CRYSTAL
- 70-VE-02 VETELINO, J.F./ MITRA, S.S./ NAMJOSHI, K.V.
LATTICE DYNAMICS OF ZN.TE: PHONON DISPERSION, MULTIPHON
ON INFRARED SPECTRUM, MODE GRUENEISEN PARAMETERS, AND T
HERMAL EXPANSION
PHYS. REV. B, V.2, P.967 (1970)
ZN.TE ..DISPERSION RELATION, FREQUENCY SPECTRUM, DEBYE
TEMPERATURE, MULTI PHONON INFRARED SPECTRUM, GRUENEISEN
CONSTANT, COEFFICIENT OF THERMAL EXPANSION, RIGID ION
MODEL
- 70-VE-03 VETELINO, J.F./ MITRA, S.S./ NAMJOSHI, K.V.
LATTICE DYNAMICS, MODE GRUENEISEN PARAMETERS, AND COEFFIC
IENT OF THERMAL EXPANSION OF CS.CL, CS.BR AND CS.I
PHYS. REV. B, V.2, P.2167-P.2175 (1970)
CS.CL/ CS.BR/ CS.I ..THEORY/ DISPERSION CURVES ..RIGID
ION MODEL/ BORN-MAYER FORCE/ GRUENEISEN CONSTANTS
- 70-VI-01 VIJAYAGHAVAN, P.R./ NICKLOW, R.M./ SMITH, H.G./
WILKINSON, M.K.
LATTICE DYNAMICS OF SILVER CHLORIDE
PHYS. REV. B, V.1, P.4819-P.4826 (1970)
SILVER CHLORIDE ..EXPERIMENT/ LATTICE DYNAMICS/ 70DK/ D
ISPERSION CURVE/ DENSITY SPECTRUM
- 70-WA-01 WALLACE, D.C.
LATTICE DYNAMICAL CALCULATION OF SOME THERMODYNAMIC PRO
PERTIES FOR ALUMINUM
PHYS. REV. B, V.1, P.3963-P.3966 (1970)
AL ..THEORY/ LOCAL PSEUDOPOTENTIAL MODEL
- 70-WA-02 WASEDA, Y./ SUZUKI, K.
TEMPERATURE DEPENDENCE OF THE STRUCTURE FACTOR OF LIQUID
D MERCURY
PHYS. LETT., V.31A, P.573 (1970)
HG ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR ..LIQUID META
L
- 70-WA-03 WASEDA, Y./ SUZUKI, K./ TAMAKI, S./ TAKEUCHI, S.
NEUTRON DIFFRACTION STUDY OF NICKEL IN THE LIQUID STATE
- PHYS. STATUS SOLIDI, V.39, P.181-P.188 (1970)
NI ..EXPERIMENT/ LIQUID/ 1500DC/ RADIAL DISTRIBUTION FU
NCTION
- 70-WE-01 WEGENER, W./ HAUTECLER, S.
PHONON DISPERSION IN ZN.O
PHYS. LETT., V.31A, P.2-P.4 (1970)
ZN.O ..EXPERIMENT/ TOF/ DISPESION RELATION
- 70-WE-02 WEGNER, W.
PHONON DISPERSION IN ZINC OXIDE
JUL-673-FF (1970)
ZN.O ..DISPERSION RELATION
- 70-WE-03 WERTHAMER, N.R.
SELF-CONSISTENT PHONON FORMULATION OF ANHARMONIC LATTIC
E DYNAMICS
PHYS. REV. B, V.1, P.572-P.581 (1970)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ ANHARMONICS ..PRES
SURE/ ELASTIC CONSTANT/ SPECIFIC HEAT
- 70-WE-04 WERTHAMER, N.R.
NEUTRON SCATTERING FROM PHONONS IN SOLID HELIUM
PHYS. REV. A, V.2, P.2050-P.2060 (1970)
HELIUM ..THEORY/ SOLID ..PHONON RELAXATION
- 70-WE-05 WEYMOUTH, J.W./ STEDMAN, R.
FERMI SURFACE OF ALUMINUM FROM KOHN ANOMALIES
PHYS. REV. B, V.2, P.4743-P.4751 (1970)
AL ..EXPERIMENT/ LATTICE DYNAMICS/ FERMI SURFACE/ KOHN
ANOMALIES
- 70-WI-01 WILSON, W.D./ JOHNSON, R.A.
NON-CENTRAL-FORCE MODEL OF LI.H PHONON DISPERSION CURVE
S AND HE MIGRATION
PHYS. REV. B, V.1, P.3510 (1970)
LI.H ..THEORY/ PHONON DISPERSION
- 70-WO-01 WOODS, A.D.B./ COWLEY, R.A.
LONG-WAVELENGTH PHONONS IN LIQUID HELIUM
PHYS. REV. LETT., V.24, P.646-P.647 (1970)
HE ..SUPERFLUID
- 70-ZA-01 ZANDVELD, P./ ANDRIESSE, C.D./ BREGMAN, J.D./ HASM
AN, A./ VAN-LOFF, J.J.
TEMPERATURE DEPENDENCE OF THE ATOMIC SELF-MOTION IN LIQ
UID ARGON
PHYSICA, V.50, P.511 (1970)
AR ..EXPERIMENT/ LIQUID/ VELOCITY AUTOCORRELATION FUNCT
ION ..MEAN SQUARE ATOMIC DISPLACEMENT/ QUASI-ELASTIC NE
UTRON SCATTERING/ SELF-DIFFUSION COEFFICIENT/ MODIFIED
LANGEVIN MODEL/ STOCHASTIC MODEL

- 70-ZE-01 ZEIN, N.E./ ZINENKO, V.I./ SHNEIDER, V.E.
LATTICE DYNAMICS OF THE PHASE TRANSITIONS IN PEROVSKITE
-TYPE ANTIFERROELECTRICS
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.12 (V
,12), P.2326 (P.1858) (1970 (1971))
SR.TI.03/ PB.ZR.03 ..THEORY/ LATTICE DYNAMICS/ FERROELE
CTRICITY/ PHASE TRANSITION
- 70-ZW-01 ZWANZIG, R./ BIXON, M.
HYDRODYNAMIC THEORY OF THE VELOCITY CORRELATION FUNCTIO
N
PHYS. REV. A, V.2, P.2005-P.2012 (1970)
THEORY-OF-FLUIDS ..CORRELATION FUNCTION/ THEORY/ LIQUID
- 70-ZY-01 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
PROCEEDINGS OF THE THIRD CONFERENCE ON INELASTIC NEUTRO
N SCATTERING, TOKAI 1969
JAERI-1197 (1970)
REVIEW-ARTICLES ..DYNAMICS OF SPIN SYSTEM AND POLYMER
- 71-AI-01 AILAWADI, N.K./ RAHMAN, A./ ZWANZIG, R.
GENERALIZED HYDRODYNAMICS AND ANALYSIS OF CURRENT CORRE
LATION FUNCTIONS
PHYS. REV. A, V.4, P.1616-P.1625 (1971)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ CURRENT-CORRELAT
ION-FUNCTION ..GAUSSIAN-DECAY-MEMORY/ EXPONENTIAL-DECAY
-MEMORY
- 71-AL-01 ALMÖVIST, L./ STEDMAN, R.
PHONONS IN ZINC AT 80 K
J. PHYS., F, LONDON, V.1, P.785-P.790 (1971)
ZN ..EXPERIMENT/ PHONON DISPERSION/ 80 K
- 71-BA-01 BAIJAL, J.S./ CHATURVEDI, D.K.
CALCULATION OF THE INCOHERENT SCATTERING CROSS SECTION
SCK(OMEGA)-SELF IN NON GAUSSIAN APPROXIMATION FOR CLASS
ICAL LIQUIDS
J. PHYS. SOC. JAP., V.31, P.431-P.435 (1971)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING CROSS
SECTION/ CLASSICAL LIQUID/ NON-GAUSSIAN
- 71-BA-02 BAJOREK, A./ JANIK, J.A.
LATTICE VIBRATIONS IN CRYSTALS OF HYDROXYLS OF ALKALI E
ARTHS
INP-742 (1971)
CALCIUM HYDROXIDE ..FREQUENCY DISTRIBUTION
- 71-BA-03 BAJPAJ, R.P./ NEELAKANDAN, K.
PHONON DISPERSION IN SODIUM
SOLID STATE COMMUN., V.9, P.167-P.168 (1971)
- NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE/ AXIAL
Y SYMMETRIC MODEL
- 71-BA-04 BAJPAJ, R.P./ NEELAKANDAN, K.
PHONON DISPERSION IN COPPER
PHYSICA, V.53, P.628-P.629 (1971)
CU ..THEORY/ DISPERSION CURVE/ MODIFIED AXIALLY SYMMETR
IC MODEL/ EFFECT OF CONDUCTION ELECTRON
- 71-BA-05 BANERJEE, R./ VARSHNI, Y.P.
LATTICE DYNAMICS AND THERMODYNAMIC PROPERTIES OF BETA-Z
N,S, GA,P AND BETA-SI,C
J. PHYS. SOC. JAP., V.30, P.1015-P.1021 (1971)
ZN,S/ GA,P/ SI,C ..THEORY/ PHONON DISPERSION/ FREQUENCY
SPECTRA/ DEBYE TEMPERATURE
- 71-BA-06 BARKER, J.A./ FISHER, R.A./ WATTS, R.O.
LIQUID ARGON, MONTE CARLO AND MOLECULAR DYNAMICS CALCUL
ATIONS
MOL. PHYS., V.21, P.657-P.673 (1971)
THEORY-OF-FLUIDS/ AR ..COMPUTER-SIMULATION/ MONTE-CARLO
..THREE-BODY-INTERACTION
- 71-BA-07 BARKER, J.A./ BOBETIC, M.V./ KLEIN, M.L.
LATTICE DYNAMICS OF SOLID KR
PHYS. LETT., A, V.34, P.415-P.416 (1971)
KR ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT
- 71-BA-08 BATCHELDER, D.N./ HAYWOOD, B.C.G./ SAUNDERSON, D.H
TEMPERATURE DEPENDENCE OF PHONON FREQUENCIES IN ARGON B
Y INELASTIC NEUTRON SCATTERING
J. PHYS., C, LONDON, V.4, P.910-P.915 (1971)
AR ..EXPERIMENT/ SOLID/ PHONON DISPERSION/ 4, 40, 77K
- 71-BA-09 BATCHELDER, D.N./ COLLINS, M.F./ HAYWOOD, B.C.G./
SIDEY, G.R.
LATTICE DYNAMICS OF ARGON AT 4 DEGREES KELVIN
J. PHYS., C, LONDON, V.4, P.249 (1971)
AR ..PHONON DISPERSION/ EXPERIMENT
- 71-BE-01 BEHARI, J./ TRIPATHI, B.B.
LATTICE DYNAMICS OF SOLIDIFIED NEON
J. PHYS. SOC. JAP., V.31, P.1639-P.1641 (1971)
NE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ DEBYE
TEMP./ FREQUENCY SPECTRA
- 71-BE-02 BERGHMANS, H./ SAFFORD, G.J./ LEUNG, P.S.
STUDY OF LOW-FREQUENCY MOTIONS OF EXTENDED CHAINS IN PO
LYETHYLENE BY NEUTRON INELASTIC SCATTERING
J. POLY. SCI., PART A-2, V.9, P.1219-P.1234 (1971)
POLYETHYLENE ..EXPERIMENT/ FREQUENCY SPECTRA/ LOW-FREQU

- ENCY MOTION/ VARIOUS TEMPERATURE/ EXTENDED-CHAIN MATERIAL
- 71-BE-03 BEZDEK, H.F./ FINEGOLD, L.
LATTICE-DYNAMICAL CALCULATIONS FOR ZINC AND BERYLLIUM
PHYS. REV. B, V.4, P.1390 (1971)
ZN/ BE ..THEORY/ LATTICE DYNAMICS
- 71-BI-01 BIEM, W./ MERTENS, F.G.
PHONONS AND LIBRONS IN SOLID HYDROGEN
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.263-P.267 (1971)
H2 ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ SOLID HYDROGEN
- 71-BI-02 BISCHOFF, F.G./ MOORE, W.E./ YEATER, M.L.
MONTE CARLO CALCULATION OF MULTIPLE SCATTERING AND RESOLUTION EFFECTS IN DOUBLE DIFFERENTIAL NEUTRON SCATTERING CROSS SECTION MEASUREMENTS
RPI-328-211 (1971)
SCATTERING-THEORIES/ COMPUTER-CODES/ H2O ..MULTIPLE SCATTERING/ THEORY/ SIGMA(E, E-PRIME)
- 71-BR-01 BRIER, P.N./ HIGGINS, J.S./ BRADLEY, R.H.
A NEUTRON INELASTIC SCATTERING STUDY OF THE CHLOROETHANES
MOL. PHYS., V.21, P.721 (1971)
CHLOROETHANE ..THEORY/ EXPERIMENT/ LIQUID/ TIME-OF-FLIGHT TECHNIQUES
- 71-BR-02 BROADHURST, M.G./ MOPSIK, F.I.
VIBRATIONAL FREQUENCY SPECTRUM FOR POLYMERS
J. CHEM. PHYS., V.55, P.3708-P.3711 (1971)
POLYETHYLENE ..THEORY/ FREQUENCY SPECTRA/ LINEAR POLYMER
- 71-BR-03 BROMLEY, R.A.
THE LATTICE VIBRATIONS OF THE MO.S2 STRUCTURE
PHIL. MAG., V.23, P.1417-P.1427 (1971)
MO.S2 ..THEORY/ PHONON DISPERSION
- 71-BR-04 BROWN, J.S.
PHONON DISPERSION IN TRANSITION METALS - A NEW 3-PARAMETER MODEL
J. PHYS., F. LONDON, V.1, P.650-P.656 (1971)
PD ..CALCULATION/ PHONON DISPERSION/ 3-PARAMETER MODEL
- 71-BR-05 BRUNO, R./ TAYLOR, D.W.
CALCULATION OF THE FREQUENCIES AND WIDTHS OF PHONONS IN CU(O,97)AU(O,03)
CAN. J. PHYS., V.49, P.2496-P.2508 (1971)
CU-AU ..THEORY/ GOLD-IMPURITY EFFECT/ EFFECT OF VOLUME CHANGE
- HANGE ON ALLOYING
- 71-BU-01 BUHRER, W./ HALG, W.
CRYSTAL DYNAMICS OF CESIUM IODIDE
PHYS. STATUS SOLIDI, V.46, P.679 (1971)
CS.I ..PHONON DISPERSION
- 71-BU-02 BURSTEIN, E./ MARADUDIN, A.A./ MINNICK, R.
THE LYDDANE-SACHS-TELLER RELATION AT FINITE WAVE VECTOR PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.48-P.54 (1971)
THEORY-OF-SOLIDS ..LYDDANE-SACHS-TELLER RELATIONS/ FINITE WAVE VECTOR
- 71-BU-03 BUYERS, W.J.L./ HOLDEN, T.M./ SVENSSON, E.C./ COWLEY, R.A./ HUTCHINGS, M.T.
EXCITATIONS IN K,CO,F3 -2, THEORETICAL
J. PHYS., C, LONDON, V.4, P.2139-P.2159 (1971)
K,CO,F3 ..THEORY/ MAGNON DISPERSION/ PHONON-MAGNON INTERACTION
- 71-CA-01 CALTIER, M./ MONTANER, A.
DISPERSION CURVES OF ALKALINE EARTH OXIDES WITH Na,CL STRUCTURE
PHONON, (ED. BY NUSIMOVICI, M.A.) FLAMMARION SCIENCE, FRANCE, P.59-P.63 (1971)
MG.O/ CA.O/ SR.O/ BA.O ..THEORY/ PHONON DISPERSION
- 71-CA-02 CARABATOS, C./ HENNION, B./ KUNC, K./ MOUSSA, F./ SCHWAB, C.
NORMAL MODES OF VIBRATIONS IN CU,CL
PHYS. REV. LETT., V.26, P.770-P.772 (1971)
CU,CL ..EXPERIMENT/ PHONON DISPERSION CURVES/ ROOM TEMPERATURE SPECTRUM
- 71-CA-03 CARABATOS, C./ PREVOT, B.
RIGID ION MODEL LATTICE DYNAMICS OF CUPRITE (CU2O)
PHYS. STATUS SOLIDI B, V.44, P.701-P.712 (1971)
CU2O ..THEORY/ PHONON DISPERSION/ RIGID ION MODEL/ PHONON SPECTRUM
- 71-CH-01 CHATURVEDI, D.K./ BAIJAL, J.S.
NON-GAUSSIAN EFFECTS IN THERMAL-NEUTRON SCATTERING IN LIQUID ARGON
J. PHYS. SOC. JAP., V.31, P.1162-P.1167 (1971)
AR ..THEORY/ SPACE-TIME CORRELATION FUNCTION/ NON-GAUSSIAN EFFECT
- 71-CH-02 CHEN, Y/ STEELE, W.A.
STATISTICAL MECHANICS OF LINEAR MOLECULES. VI, SOLUTIONS OF THE PERCUS YEVICK INTEGRAL EQUATION FOR A HARD-CORREMODEL

- J. CHEM. PHYS., V.54, P.703-P.710 (1971)
THEORY-OF-SOLIDS ..THEORY/ MOLECULAR DYNAMICS/ LINIER M
OLECULE
- 71-CH-03 CHIHARA, J./ SASAKI, K./ OBATA, Y.
EQUIVALENCE OF THREE KINETIC METHODS FOR CALCULATING TH
E SPACE-TIME CORRELATION FUNCTION
J. PHYS. SOC. JAP., V.31, P.1323-P.1328 (1971)
THEORY-OF-FLUIDS ..THEORY/ SPACE-TIME CORRELATION FUNCT
ION/ VLASOV-BOLTZMANN EQUATION
- 71-CH-04 CHODOS, S.L.
LATTICE DYNAMICS OF CA₂U.BR6
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.69-P.73 (1971)
CS2.U.BR6 ..THEORY/ PHONON DISPERSION
- 71-CO-01 COUCH, J.G./ HARLING, O.K./ CLUNE, L.C.
STRUCTURE IN THE NEUTRON SCATTERING SPECTRA OF ZIRCONIU
M HYDRIDE
PHYS. REV. B, V.4, P.2675 (1971)
ZR-H ..EXPERIMENT/ SOLID/ SIGMA(E,E-PRIME,THETA)
- 71-CO-02 COWLEY, R.A./ WOODS, A.D.B.
INELASTIC SCATTERING OF THERMAL NEUTRONS FROM LIQUID HE
LIUM
CAN, J. PHYS., V.49, P.177-P.200 (1971)
HE ..EXPERIMENT/ LIQUID/ PHONON DISPERSION
- 71-CO-03 COWLEY, E.R.
LATTICE VIBRATIONS IN DEUTERATED AMMONIUM CHLORIDE AT 8
5 DK, 11, THEORETICAL,
PHYS. REV. B, V.3, P.2743 (1971)
AMMONIUM CHLORIDE ..THEORY/ DISPERSION RELATION/ LATTIC
E DYNAMICS
- 71-CO-04 COX, D.E./ MINKIEWICZ, V.J.
A REDETERMINATION OF THE COHERENT NEUTRON SCATTERING AM
PLITUDE OF CS
ACTA CRYSTALLOGR., V.27A, P.494 (1971)
CS ..EXPERIMENT/ SCATTERING AMPLITUDE
- 71-DA-01 DAY, D.H./ SINCLAIR, R.N.
STUDIES OF VIBRATION SPECTRA OF BOUND HYDROGEN ATOMS US
ING A PULSED NEUTRON SOURCE
AERE-R-6717 (1971)
ZR-H/ H₂O/ C₆H₇N/ NA.N.H₂ ..EXPERIMENT/ TOF SPECTRA/
PULSED NEUTRON SOURCE
- 71-DA-02 DAY, D.H./ SINCLAIR, R.N.
STUDIES OF VIBRATION SPECTRA OF BONDED HYDROGEN ATOMS U
SING A PULSED NEUTRON SOURCE
- J. CHEM. PHYS., V.55, P.2807-P.2811 (1971)
ZR-H/ H₂O/ SODAMIDE/ ANILINE ..EXPERIMENT/ MOLECULAR D
YNAMICS/ LINAC PULSED NEUTRON SOURCE
- 71-DE-01 DE-WETTE, F.W./ FOWLER, L.H.
LATTICE DYNAMICS, THERMAL EXPANSION AND SPECIFIC HEAT O
F A LENNARD-JONES SOLID IN THE QUASI-HARMONIC APPROXIMA
TION
PHYSICA, V.54, P.292 (1971)
AR ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION F
UNCTION ..THERMAL EXPANSION/ SPECIFIC HEAT
- 71-DE-02 DEMPSTER, A.B./ ZERBI, G.
LATTICE DYNAMICS OF METHANOL HYDROGEN BONDING AND INFR
ARED ABSORPTION
J. CHEM. PHYS., V.54, P.3600 (1971)
METHANOL ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS
- 71-DE-03 DENIZ, U.K./ JANNIK, G./ TAUPIN, D.
NEUTRON SCATTERING BY SMALL CHAINLIKE MOLECULES DISPERS
ED IN C.S₂
J. CHEM. PHYS., V.55, P.2384-P.2390 (1971)
ETHYL ETHER-CARBON DISULFIDE/ DIETHYL DIETHYLENE GLYCOL
-CARBON DISULFIDE ..THEORY/ EXPERIMENT/ QUASI-ELASTIC P
EAK/ KRIEGER-NELKIN MODEL ..CHAIN LIKE MOLECULE
- 71-DE-04 DESAI, R.C.
SINGLE-PARTICLE MOTION IN SIMPLE CLASSICAL LIQUIDS
PHYS. REV. A, V.3, P.320-P.328 (1971)
THEORY-OF-FLUIDS ..THEORY/ CLASSICAL LIQUID/ SINGLE-PAR
TICLE MOTION
- 71-DE-05 DEVINE, S./ PECKHAM, G.
GROUP THEORETICAL SELECTION RULES FOR INELASTIC NEUTRON
SCATTERING WITH APPLICATIONS TO LI₂NB₂O₃
J. PHYS., C, LONDON, V.4, P.1091 (1971)
LI₂NB₂O₃ ..THEORY/ GROUP THEORY/ INELASTIC NEUTRON SCAT
TERING
- 71-DI-01 DIETERICH, W./ SCHUSTER, H.
THEORETICAL INTERPRETATION OF NEUTRON SCATTERING EXPERI
MENTS IN V₃SI
PHYS. LETT., A, V.35, P.48-P.49 (1971)
V₃SI ..THEORY/ PHONON DISPERSION/ SOFT PHONON
- 71-DO-01 DORNER, B./ EGGER, H.
ELASTIC CONSTANTS OF ARGON AT 4.2DK FROM PHONON MEASURE
MENTS
PHYS. STATUS SOLIDI B, V.43, P.611-P.617 (1971)
AR ..EXPERIMENT/ PHONON DISPERSION/ SOUND VELOCITY/ ELA
STIC CONSTANT

- 71-DR-01 DREXEL, W.
LATTICE DYNAMICS OF SILVER
KFK-1383 (1971)
AG ..EXPERIMENT/ PHONON DISPERSION
- 71-DZ-01 DZYUB, I.P./ KOCHMARSKY, V.Z.
INELASTIC SCATTERING OF SLOW NEUTRONS IN IMPERFECT CRYSTALS I. COHERENT EFFECTS DUE TO THE LOCALIZED VIBRATIONS OF SUBSTITUTIONAL ATOMS
ITP-71-43P (1971)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ LOCALIZED VIBRATION/ NUMERICAL CALCULATION
- 71-EG-01 EGELSTAFF, P.A./ PAGE, D.I./ HEARD, C.R.T.
EXPERIMENTAL STUDY OF THE TRIPLET CORRELATION FUNCTION FOR SIMPLE LIQUIDS
J, PHYS., C, LONDON, V.4, P.1453-P.1465 (1971)
RB/ AR/ C.CL4 ..EXPERIMENT/ TRIPLET CORRELATION FUNCTION/ THEORY
- 71-EG-02 EGELSTAFF, P.A./ PAGE, D.I./ POWLES, J.G.
ORIENTATIONAL CORRELATIONS IN MOLECULAR LIQUIDS BY NEUTRON SCATTERING. CARBON TETRACHLORIDE AND GERMANIUM TETRABROMIDE
MOL. PHYS., V.20, P.881 (1971)
C.CL4/ GE.BR4 ..EXPERIMENT/ MOLECULAR LIQUID DYNAMICS
- 71-EL-01 ELCOMBE, M.M./ PRYOR, A.W.
THE LATTICE DYNAMICS OF CALCIUM FLUORIDE
J, PHYS., C, LONDON, V.4, P.492 (1971)
CA.F2 ..EXPERIMENT/ PHONON DISPERSION
- 71-ER-01 ERNST, M./ SCHELLEN, J./ SCHMATZ, W.
NEUTRON SMALL-ANGLE SCATTERING STUDY OF THE TRANSITION FROM SINGLE- TO MULTI-DOMAIN BEHAVIOUR IN PRECIPITATIONS OF CU-1 PER CENT CO
PHYS. STATUS SOLIDI A, V.7, P.477-P.483 (1971)
CU-CO/ MAGNETIC-SCATTERING/ SCATTERING-BY-DEFECTS ..EXPERIMENT/ SMALL ANGLE SCATTERING/ PRECIPITATION/ CU99-CO
1
- 71-ER-02 ERNST, G.
PRESSURE DEPENDENT FREQUENCY-SHIFT OF PHONONS IN SODIUM MEASURED BY INELASTIC NEUTRON SCATTERING
ACTA PHYS. AUSTR., V.33, P.27 (1971)
NA ..EXPERIMENT/ PHONON FREQUENCY/ PRESSURE EFFECT
- 71-ES-01 ESCH, L.J./ YEATER, M.L./ MOORE, W.E./ SEEMANN, K.
THE TEMPERATURE DEPENDENCE OF NEUTRON INELASTIC SCATTERING FROM WATER
NUCL. SCI. ENG., V.46, P.223-P.235 (1971)
- H2.O ..EXPERIMENT/ DIFFERENTIAL CROSS SECTION/ 27, 170, 270C/ LINAC
- 71-FE-01 FELDKAMP, L.A./ STEINMAN, D.K./ VAGELATOS, N./ KINIG, J.S./ VENKATARAMAN, G.
LATTICE DYNAMICS OF CUBIC ZINC SULFIDE BY NEUTRON SCATTERING
J, PHYS. CHEM. SOLIDS, V.32, P.1573-P.1583 (1971)
ZN.S ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING
- 71-FI-01 FISHER, I.Z.
THE HYDRODYNAMIC ASYMPTOTIC BEHAVIOR OF THE VELOCITY AUTOCORRELATION FUNCTION FOR A MOLECULE IN A CLASSICAL FLUID
ZH, EKSP. TEOR. FIZ. (SOV. PHYS. JETP), V.61 (V.34), P.1647-P.1659 (P.878-P.884) (1971) (1972)
THEORY-OF-FLUIDS ..VELOCITY CORRELATION
- 71-FR-01 FRIKKEE, E.
INTERACTION BETWEEN ELECTRON, MAGNONS AND PHONONS IN METALS
RCM-140 (1971)
NI ..EXPERIMENT/ SOLID/ TOF/ DISPERSION RELATION ..METALS
- 71-GH-01 GHEORGHE, D./ RAPEANU, S./ STEFAN, H.
PROGRAM FOR COMPUTING OF THE SCATTERING CROSS-SECTION IN NEUTRON HEAVY WATER
IFA-DNBR-3 (1971)
D2.O ..SCATTERING LAW / COMPUTER CODE
- 71-GI-01 GILLESSEN, P./ BIEM, W.
THEORY OF PHONON DAMPING IN SOLID HELIUM
Z. PHYS., V.242, P.250-P.261 (1971)
HE ..THEORY/ PHONON DAMPING/ SOLID HELIUM
- 71-GI-02 GILLIS, N.S.
SOME ASPECTS OF COVALENT BONDING IN NaCl STRUCTURE CRYSTALS. APPLICATION TO THE LATTICE DYNAMICS OF MgO
PHYS. REV. B, V.3, P.1482-P.1496 (1971)
MG.O ..THEORY/ LATTICE VIBRATION
- 71-GI-03 GILLIS, N.S./ KOEHLER, T.R.
ANHARMONIC INTERACTIONS IN ALUMINUM, 2.
PHYS. REV., V.3, P.3568 (1971)
AL ..THEORY
- 71-GL-01 GLYDE, H.R./ KHANNA, F.C.
LATTICE DYNAMICS AND SHORT RANGE CORRELATIONS IN B.C.C. HE
HE(A=3)
CAN. J. PHYS., V.49, P.2999 (1971)
HE ..THEORY

- 71-GO-01 GOBEAU, J./ HEURET, M.
CALCULATIONS OF PHONON DISPERSION CURVES ON CADMIUM FLUORIDE
PHONONS, (ED. NUSIMOVICI, M.A.), FLAMMARION SCIENC E, FRANCE, P.94-P.98 (1971)
CO.F2 ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA
- 71-GO-02 GOTOH, Y./ TAKAHSHI, H.
SLOW-NEUTRON SCATTERING BY LIGHT AND HEAVY WATER
NUCL. SCI. ENG., V.45, P.126 (1971)
H2.O/ D2.O ..FREQUENCY DISTRIBUTION/ SCATTERING LAW
- 71-GR-01 GREENFIELD, A.J./ WISER, N.
THE LOW- θ REGION OF THE STRUCTURE FACTOR FOR LIQUID METALS
PHYS. LETT., A, V.34, P.123-P.124 (1971)
NA/ PB ..EXPERIMENT/ STRUCTURE FACTOR ..X-RAY DIFFRACTION
- 71-GU-01 GUPTA, H.C./ TRIPATHI, B.B.
LATTICE DYNAMICS OF LITHIUM USING A PSEUDOPOTENTIAL APPROACH
J. PHYS., F, LONDON, V.1, P.12-P.18 (1971)
LI ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ COMPRESSIBILITY
- 71-GU-02 GUPTA, R.K./ GUPTA, N.P.
THE EFFECT OF ZERO-POINT ANHARMONICITY ON THE VIBRATIONAL PROPERTIES OF HEAVY RARE-GAS SOLIDS
NUOVO CIM., B, V.6, P.29-P.36 (1971)
AR/ KR/ Xe ..THEORY/ PHONON DISPERSION AND SPECTRA/ ANHARMONIC POTENTIAL
- 71-GU-03 GUPTA, H.C./ TRIPATHI, B.B.
LATTICE DYNAMICS OF LEAD, A PSEUDOPOTENTIAL APPROACH
PHYS. STATUS SOLIDI B, V.45, P.537-P.541 (1971)
PB ..THEORY/ PHONON DISPERSION/ ELASTIC PROPERTIES/ PSEUDOPOTENTIAL
- 71-GU-04 GUPTA, H.G./ TRIPATHI, B.B.
LATTICE DYNAMICS OF LEAD, AN ELASTIC FORCE MODEL APPROACH
CH
PB ..THEORY/ PHONON DISPERSION
PHYS. STATUS SOLIDI B, V.45, P.235-P.239 (1971)
- 71-HA-01 HALL, C./ MATTEW, J.A.D.
THE EFFECT OF LATTICE VIBRATIONS ON ORDER-DISORDER TRANSFORMATIONS IN BINARY ALLOYS
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.304-P.307 (1971)
THEORY-OF-SOLIDS ..LATTICE VIBRATION/ ORDER-DISORDER THEORY
- 71-HA-02 HAMA, J./ NAKAMURA, T.
ROTATIONAL CORRELATION FUNCTION OF SPHERICAL ROTORS AND NEUTRON SCATTERING
PROGR. THEORET. PHYS., KYOTO, V.46, P.1666-P.1689 (1971)
NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ MOLECULAR E/ GAS/ ROTATIONAL CORRELATION/ CROSS SECTION
- 71-HA-03 HANKE, W.
MODIFIED SHELL MODEL TREATMENT OF PHONONS IN NOBLE AND TRANSITION METALS
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.294-P.298 (1971)
NI ..THEORY/ METAL/ MODIFIED SHELL
- 71-HA-04 HARADA, J./ AXE, J.D./ SHIRANE, G.
NEUTRON SCATTERING STUDY OF SOFT MODES IN CUBIC BaTiO₃
PHYS. REV. B, V.4, P.155 (1971)
BaTiO₃ ..EXPERIMENT/ DISPERSION RELATION/ SOFT OPTIC PHONON/ TEMPERATURE CHANGE/ MODE INTERACTION/ COUPLED PHONON MODEL
- 71-HA-05 HARLING, O.K.
HIGH-ENERGY NEUTRON SCATTERING MEASUREMENTS ON LIQUID HELIUM AND BOSE CONDENSATION IN HELIUM
PHYS. REV. A, V.3, P.1073 (1971)
HE ..DYNAMICS OF LIQUID
- 71-HA-06 HARRYMAN, M.B.M./ REYNOLDS, P.A./ WHITE, J.W.
DENSITY OF STATES MEASUREMENTS FOR PHONONS IN AROMATIC CRYSTALS
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.209-P.222 (1971)
REVIEW-ARTICLES ..DENSITY OF STATES/ PHONON/ AROMATIC CRYSTAL
- 71-HA-07 HAYWOOD, B.C./ COLLINS, M.F.
OPTICAL PHONONS IN MN.O
J. PHYS., C, LONDON, V.4, P.1299-P.1305 (1971)
MN.O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING
- 71-HE-01 HENNION, B./ MOUSSA, F./ PEPEY, G./ KUNC, K.
NORMAL MODES OF VIBRATIONS IN ZN,SE
PHYS. LETT., A, V.36, P.376-P.378 (1971)
ZN,SE ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON DENSITY
- 71-HO-01 HOLDEN, T.M./ BUYERS, W.J.L./ SVENSSON, E.C./ COWLING

- EY, R.A./ HUTCHINGS, M.T./ EXCITATIONS IN K.CO.F3 -1. EXPERIMENTAL J. PHYS., C, LONDON, V.4, P.2127-P.2138 (1971)
 K.CO.F3 ..EXPERIMENT/ PHONON DISPERSION/ MAGNON DISPERSION
 71-HO-02 HOUK, T.L./ SHAMBROOM, D./ WILSON, R. CROSS SECTION OF SLOW NEUTRONS ON PARAHYDROGEN PHYS. REV. LETT., V.26, P.1581-P.1585 (1971)
 H ..EXPERIMENT/ PARAHYDROGEN/ SCATTERING LENGTH
 71-HU-01 HUELLER, A. MANY BODY FORCES AND ELASTIC CONSTANTS OF RARE GAS CRYSTALS JUL-754-FE (1971)
 THEORY-OF-SOLIDS/ ARGON/ KRYPTON/ XENON ..CAUCHY-RELATION
 71-IS-01 ISHIBASHI, Y./ TAKAGI, Y. FORCE CONSTANTS IN BA.TI.O3 AND SR.TI.O3 J. PHYS. SOC. JAP., V.31, P.1712-P.1718 (1971)
 BA.TI.O3/ SR.TI.O3 ..THEORY/ CALCULATION/ FORCE CONSTANT ANALYSIS
 71-JA-01 JAIN, S.C./ BHANDARI, R.C. MEMORY EFFECTS AND DYNAMICAL CORRELATIONS IN LIQUID ARGON AND SODIUM PHYSICA, V.52, P.393-P.409 (1971)
 AR/ NA ..THEORY/ MEMORY FUNCTION/ LIQUID DYNAMICS
 71-JA-02 JANIK, J.M./ JANIK, J.A./ PYTASZ, G./ WASIUTYNSKI, I. TORSIONAL VIBRATIONS OF H2.O MOLECULES IN CRYSTALLINE LIQUID S.O4*(H2.O) PHYS. STATUS SOLIDI, V.44, P.497 (1971)
 LI2.S.O4*H2.O ..INELASTIC SCATTERING SPECTRA/ H2.O IN CRYSTALLINE
 71-JE-01 JEX, H. LATTICE DYNAMICS OF N.D4.CL PHYS. LETT., A, V.34, P.118-P.119 (1971)
 N.H4.CL ..THEORY/ DISPERSION RELATION
 71-JE-02 JEX, H. LATTICE DYNAMICS OF N.H4.CL AND N.D4.CL SOLID STATE COMMUN., V.9, P.2057 (1971)
 N.H4.CL ..THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION FUNCTION
 71-JE-03 JEX, H. ANHARMONIC INTERACTIONS IN DIAMOND-TYPE CRYSTALS PHYS. STATUS SOLIDI B, V.45, P.343-P.355 (1971)
 DIAMOND/ GE/ SI ..THEORY/ PHONON DISPERSION/ THERMAL PROPERTIES/ ANHARMONIC INTERACTION
 71-KA-01 KATIYAR, R.S. LATTICE DYNAMICS OF RUTILE USING SHELL MODEL PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.84-P.88 (1971)
 TI.O2 ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ SHELL MODEL
 71-KA-02 KATIYAR, R.S./ DAWSON, P./ HARGREAVE, M.M./ WILKINSON, G.R. DYNAMICS OF THE RUTILE STRUCTURE III J. PHYS., C, LONDON, V.4, P.2421-P.2431 (1971)
 SN.O2 ..EXPERIMENT/ INFRARED/ RAMAN/ OPTICAL FREQUENCY/ DIELECTRIC CONSTANT/ THEORY/ DISPERSION CURVE
 71-KI-01 KIM, K./ NELKIN, M. SELF-DIFFUSION MODEL FOR MEMORY FUNCTION IN CLASSICAL FLUIDS PHYS. REV. A, V.4, P.2065-P.2075 (1971)
 NEUTRON-SCATTERING-IN-FLUIDS ..MORI-METHOD
 71-KI-02 KING-III, W.F./ CUTLER, P.H. LATTICE DYNAMICS OF MAGNESIUM FROM A FIRST-PRINCIPLES NON-LOCAL PSEUDOPOTENTIAL APPROACH PHYS. REV. B, V.3, P.2485 (1971)
 MG ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..METAL/ PSEUDOPOTENTIAL
 71-KI-03 KISTNER, G./ RUBIN, R./ SOSNOWSKA, I. ANISOTROPIC DIFFUSION OF HYDROGEN IN NIOBIUM SINGLE CRYSTALS PHYS. REV. LETT., V.27, P.1576 (1971)
 NB-H ..HYDROGEN DIFFUSION
 71-KL-01 KLEIN, M.L./ BARKER, J.A./ KOEHLER, T.R. LATTICE DYNAMICS OF FCC ARGON WITH THREE-BODY FORCE THEORY-OF-SOLIDS/ AR ..4DK/ 40DK/ 77DK
 71-KL-02 KLEIN, M. THEORY OF THE PHONON SPECTRUM OF THE BETA-TUNGSTEN COMPOUNDS PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.299-P.303 (1971)
 THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRUM/ BETA-TUNGSTEN COMPOUNDS
 71-KO-01 KONTI, A. LATTICE DYNAMICS AND THERMODYNAMIC PROPERTIES OF PLATINUM

- J. CHEM. PHYS., V.55, P.3997-P.4000 (1971)
PT ..THEORY/ ANGULAR FORCE MODEL/ DISPERSION CURVE/ FRE
QUENCY SPECTRA/ DEBYE-WALLER FACTOR/ DEBYE TEMP.
- 71-KO-02 KORSUNSKII, M.I./ GENKIN, Y.E./ MARKOVIN, V.I./ Z
AVODINSKII, V.G./ SATSUK, V.V.
DISPERSION RELATIONSHIP FOR THE PHONON SPECTRUM OF NIOB
IUM IN THREE HIGH SYMMETRY DIRECTIONS
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.13 (V
.13), P.2138-P.2140 (P.1793-P.1795) (1971 (1972))
NB ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL
- 71-KU-01 KUNC, K./ BALKANSKI, M./ NUSIMOVICI, M.A.
DEFORMABLE BOND MODEL AND IONICITY OF ZINC-BLENDE STRUC
TURE COMPOUNDS
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.109-P.114 (1971)
ZN,SE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ DE
FORMABLE BOND MODEL
- 71-KU-02 KUSHWAHA, S.S.
THEORETICAL FORMULATION FOR THE LATTICE DYNAMICS OF H.C
.P, METALS
BE/ TL ..NON-CENTRAL FORCE MODEL
- 71-KU-03 KUSHWAHA, S.S./ RAJPUT, J.S.
LATTICE VIBRATIONS OF ZINC
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.290-P.293 (1971)
ZN ..THEORY/ PHONON DISPERSION/ HEXAGONAL METAL
- 71-KU-04 KUSHWAHA, S.S./ SINGH, O.N.
LATTICE VIBRATIONS FOR BODY CENTERED CUBIC METALS
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.287-P.293 (1971)
THEORY-OF-SOLIDS/ CS ..THEORY/ PHONON DISPERSION
- 71-KU-05 KUSHWAHA, S.S./ RAJPUT, J.S.
PHONON DISPERSION RELATIONS FOR THALLIUM
J. PHYS., F. LONDON, V.1, P.377-P.381 (1971)
TL ..CALCULATION/ KREB MODEL/ PHONON DISPERSION/ DEBYE
TEMP.
- 71-LA-01 LARSSON, K.E.
ROTATIONAL MOLECULAR MOTION AND THE TRANSIENT NATURE OF
LIQUIDS AS SEEN BY SLOW-NEUTRON SCATTERING
PHYS. REV. A, V.3, P.1006-P.1022 (1971)
NEUTRON-SCATTERING-IN-FLUIDS ..QUASI-ELASTIC-PEAK/ THEO
RY ..UNCORRELATED TRANSLATIONAL AND ROTATIONAL MOTION
- 71-LE-01 LEIGH, R.S./ SZIGETI, B./ TEWARY, V.K.
FORCE CONSTANTS AND LATTICE FREQUENCIES
PROC. ROY. SOC., LONDON, SER. A, V.320, P.505-P.52
6 (1971)
THEORY-OF-SOLIDS ..THEORY/ FORCE CONSTANT/ PHONON FREQU
ENCY
- 71-LE-02 LENK, R./ SOLBRIG, H.
MULTIPLE SCATTERING OF THERMAL NEUTRONS BY A PERFECT CR
YSTAL I GENERAL FOUNDATION
PHYS. STATUS SOLIDI B, V.46, P.273-P.282 (1971)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ MULTIPLE SCATTER
ING/ PERFECT CRYSTAL
- 71-LO-01 LOGAN, K.W./ TREVINO, S.F./ CASELLA, R.C./ SHAW, W
.M./ MUHLESTEIN, L.D./
THE LATTICE DYNAMICS OF NA.N.O3
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.104-P.108 (1971)
NA.N.O3 ..EXPERIMENT/ PHONON DISPERSION
- 71-LO-02 LOVESEY, S.W.
DENSITY FLUCTUATIONS IN CLASSICAL MONATOMIC LIQUIDS
J. PHYS., C. LONDON, V.31, P.3057-P.3064 (1971)
THEORY-OF-FLUIDS/ AR ..TRIPLE-PEAK-STRUCTURE
- 71-LO-03 LOVESEY, S.W.
DENSITY FLUCTUATIONS IN CLASSICAL MONATOMIC LIQUIDS
PHYS. LETT., A, V.36, P.413-P.414 (1971)
THEORY-OF-FLUIDS ..LIQUID/ DENSITY RESPONS FUNCTION
- 71-LU-01 LURIE, N.A./ CARPENTER, J.M.
LOW-ENERGY NEUTRON SCATTERING FROM HYDROGEN CHLORIDE
J. CHEM. PHYS., V.54, P.5193-P.5196 (1971)
H.CL ..EXPERIMENT/ THEORY/ GAS STATE/ SCATTERING SIGMA
- 71-LU-02 LURIE, N.A./ DANNER, H.R.
ON THE VIBRATIONAL SPECTRA OF CARBOXYLIC ACIDS BY NEUTR
ON SPECTROSCOPY
J. CHEM. PHYS., V.55, P.5740 (1971)
CARBOXYLIC ACID ..VIBRATIONAL SPECTRA/ LIQUID DYNAMICS/
DISPERSION RELATION
- 71-MA-01 MAELAND, A.J./ HOLMES, D.E.
INELASTIC NEUTRON SCATTERING FROM LANTHANUM DIHYDRIDE A
ND LANTHANUMTRIHYDRIDE
J. CHEM. PHYS., V.54, P.3979-P.3982 (1971)
LANTHANUM HYDRIDE ..EXPERIMENT/ FREQUENCY SPECTRA
- 71-MA-02 MAELAND, A.J./ HOLMES, D.E.
INELASTIC NEUTRON SCATTERING SPECTRA FROM LANTHANUM DIH
YDRIDE AND LANTHANUM TRIHYDRIDE
J. CHEM. PHYS., V.54, P.3979 (1971)

- LA-H .. INELASTIC SCATTERING SPECTRA
- 71-MA-03 MAHLER, G./ SCHROEDER, U.
LATTICE DYNAMICS OF CESIUM HALIDES
PHONONS, (ED. NUSIMOVICI, M.A.), FLAMMARION SCIENC
E, FRANCE, P.89-P.93 (1971)
- CS.BR/ CS.CL .. THEORY/ PHONON DISPERSION
- 71-MA-04 MAIR, S.L./ BARNEA, Z.
NEUTRON DIFFRACTION STUDY OF ANHARMONIC VIBRATIONAL EFF
ECTS IN STRONTIUM FLUORIDE
PHYS. LETT., V.35A, P.286 (1971)
- SR.F2 .. ANHARMONIC EFFECT
- 71-MA-05 MALISZEWSKI, E.F./ SOSNOWSKI, J./ CZACHOR, A.
LATTICE DYNAMICS OF THE PD-1 PERCENT FE ALLOY
J. PHYS., F, LONDON, V.1, P.339-P.344 (1971)
- PD-FE .. EXPERIMENT/ PHONON DISPERSION/ FORCE CONSTANT A
NALYSIS
- 71-MA-06 MARSHALL, W./ LOVESEY, S.W.
THEORY OF THERMAL NEUTRON SCATTERING
OXFORD AT THE CLARENDON PRESS (1971)
- SCATTERING-THEORIES .. THEORY/ CORRELATION FUNCTION/ PHO
NON/ MAGNETIC/ SPIN WAVE/ LIQUID/ GAS/ CRITICAL/ DIFFUS
E/ DEFECT
- 71-MC-01 MCKENZIE, D.R./ PRYOR, A.W.
LATTICE DYNAMICS OF UREA
J. PHYS., C, LONDON, V.4, P.2304-P.2312 (1971)
- UREA .. THEORY/ PHONON DISPERSION
- 71-MC-02 McMULLAN, J.T./ HOGAN, J.N.
COMMENT ON THE LATTICE DYNAMICS OF HEXAMETHYLENETETRAMI
NE
J. CHEM. PHYS., V.10, P.5142-P.5144 (1971)
- HEXAMETHYLENETETRAMINE .. THEORY/ LATTICE DYNAMICS/ DISP
ERSON CURVE/ SOLID/ MOLECULAR CRYSTAL
- 71-MJ-01 MILLER, A.P./ BROCKHOUSE, B.N.
CRYSTAL DYNAMICS AND ELECTRONIC SPECIFIC HEATS OF PALLA
DIUM AND COPPER
CAN. J. PHYS., V.49, P.704-P.723 (1971)
- PD/ CU .. EXPERIMENT/ CALCULATION/ NEUTRON SCATTERING/ D
ISPERSION CURVE/ FREQUENCY SPECTRUM/ TEMPERATURE DEPEND
ENCE/ SPECIFIC HEAT
- 71-MJ-02 MILLINGTON, A.J./ SOUIRES, G.L.
MEASUREMENTS OF THE FREQUENCIES OF THE NORMAL MODES IN
SODIUM
J. PHYS., F, LONDON, V.1, P.545 (1971)
- NA .. EXPERIMENT/ PHONON DISPERSION
- 71-MO-01 MOSCINSKI, J./ NAWALANY, M.
MONTE CARLO RADIAL DISTRIBUTION FUNCTIONS FOR A HARD SP
HERE MODEL OF LIQUID CU
PHYS. LETT., A, V.37, P.57-P.58 (1971)
- THEORY-OF-FLUIDS/ CU
- 71-MU-01 MURTAZIN, I.A.
LATTICE VIBRATIONS WITH A RANDOM DISTRIBUTION OF INTERS
TITIAL IMPURITIES
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.13 (V
.13), P.141-P.145 (P.112-P.115) (1971 (1971))
- THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS .. THEORY
/ INTERSTITIAL IMPURITIES/ TWO-TIME GREEN FUNCTION
- 71-MU-02 MUSIMOVICI, M.A.
PHONONS
FLAMMARION SCIENCES, PARIS (1971)
- REVIEW-ARTICLES .. PROCEEDING OF THE INTERNATIONAL CONFE
RENCE, RENNES, FRANCE, 1971
- 71-NA-01 NAKAHARA, Y.
THERMAL NEUTRON SCATTERING FROM SIMPLE LIQUID METALS
J. NUCL. SCI. TECHNOL., TOKYO, V.8, P.1-P.15 (1971)
- NEUTRON-SCATTERING-IN-FLUIDS/ NA .. THEORY/ SCATTERING S
IGMA/ LIQUID METAL
- 71-NA-02 NAMJOSHI, K.V./ MITRA, S.S./ VETELINO, J.F.
RIGID ION MODEL OF LATTICE DYNAMICS - A RE-EVALUATION
SOLID STATE COMMUN., V.9, P.185-P.189 (1971)
- THEORY-OF-SOLIDS/ NA.F/ NA.CL .. LATTICE DYNAMICS/ DISPE
RSION RELATION/ RIGID ION MODEL USING AN EFFECTIVE ION
C CHARGE
- 71-NA-03 NAMJOSHI, K.V./ MITRA, S.S.
AN ALL PURPOSE LATTICE DYNAMICAL MODEL FOR ALKALI HALID
ES, THE BREATHING SHELL MODEL
PHONONS, (ED. BY MUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.79-P.83 (1971)
- NA.BR .. THEORY/ PHONON DISPERSION/ BREATHING SHELL MODE
L
- 71-NI-01 NICKLOW, R.M./ WAKABAYASHI, N./ VIJAYARAGHAVAN, P.
R.
LATTICE DYNAMICS OF HOLMIUM
PHYS. REV. B, V.3, P.1229-P.1234 (1971)
- HO .. EXPERIMENT/ PHONON DISPERSION CURVES/ FREQUENCY DI
STRIBUTION/ SPECIFIC HEAT/ DEBYE TEMP./ ROOM TEMP.
- 71-NI-02 NIELSEN, M./ MOLLER, H.B.
LATTICE DYNAMICS OF SOLID DEUTERIUM BY INELASTIC NEUTRO

- N SCATTERING
 PHYS. REV. B, V.3, P.4383-P.4385 (1971)
 D ..EXPERIMENT/ LATTICE DYNAMICS/ 5DK/ DISPERSION RELATION
- 71-NI-03 NIELSEN, M./ MOELLER, H.B.
 LATTICE DYNAMICS OF SOLID DEUTERIUM BY INELASTIC NEUTRON SCATTERING
 PHYS. REV. B, V.3, P.4383-P.4385 (1971)
 DEUTERIUM ..EXPERIMENT/ ORTHO-DEUTERIUM/ PHONON DISPERSION/ SOLID AT 5DK/ ELASTIC CONSTANT/ PHONON DENSITY
- 71-NI-04 NIKULIN, V.K./ TSAREV, Y.N.
 AB INITIO PSEUDOPOTENTIAL CALCULATION OF PHONON FREQUENCIES IN SILVER
 PHYS. LETT., A, V.36, P.337 (1971)
 AG ..CALCULATION/ PHONON FREQUENCY
- 71-NI-05 NILSSON, G./ NELIN, G.
 PHONON DISPERSION RELATIONS IN GE AT 80K
 PHYS. REV. B, V.3, P.364-P.369 (1971)
 GE ..EXPERIMENT/ DISPERSION CURVE/ LATTICE DYNAMICS/ 80DK/ LINE WIDTH
- 71-NI-06 NISHIGORI, T./ SEKIYA, T.
 SLOW NEUTRON SCATTERING AND CLASSICAL MEAN-SQUARE DISPLACEMENT FUNCTIONS OF ATOMS
 J. NUCL. SCI. TECHNOL., TOKYO, V.8, P.406-P.407 (1971)
 NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ SCATTERING SIGMA / MEAN-SQUARE DISPLACEMENT
- 71-NI-07 NISHIGORI, T./ SEKIYA, T.
 PHONON-TYPE EXPANSION FOR SLOW NEUTRON SCATTERING
 J. NUCL. SCI. TECHNOL., TOKYO, V.8, P.319-P.329 (1971)
 NEUTRON-SCATTERING-IN-FLUIDS/ H.CL ..THEORY/ SCATTERING SIGMA/ GAS
- 71-NO-01 NOLTING, W.
 SIMPLE MODEL FOR MONOATOMIC CLASSICAL LIQUIDS
 Z. PHYS., V.242, P.199-P.209 (1971)
 THEORY-OF-FLUIDS/ AL/ AR ..THEORY/ VAN-HOVE-CORRELATION-FUNCTION
- 71-NO-02 NOOLANDI, J.
 DETERMINATION OF QUADROPOLAR COUPLING CONSTANT BY NEUTRON SCATTERING IN SOLID H2
 SOLID STATE COMMUN., V.9, P.1809 (1971)
 H2 ..THEORY/ SOLID
- 71-O--01 O'REILLY, D.E.
- VELOCITY AUTOCORRELATION FUNCTION AND SELF-DIFFUSION IN LIQUIDS
 J. CHEM. PHYS., V.55, P.2876-P.2884 (1971)
 THEORY-OF-FLUIDS ..VELOCITY-AUTOCORRELATION/ SELF-DIFFUSION ..QUASILATTICE-MODEL
- 71-OT-01 OTNES, K./ RISTE, T./ SHIRANE, G./ FEDER, J.
 TEMPERATURE DEPENDENCE OF THE SOFT MODES IN SR.TI.03 ABOVE THE 105 K TRANSITION
 SOLID STATE COMMUN., V.9, P.1103-P.1106 (1971)
 SR.TI.03 ..EXPERIMENT/ SOFT PHONON/ CURIE-WEISS LAW/ PHASE TRANSITION
- 71-PA-01 PAGE, D.I./ POWLES, J.G.
 THE CORRELATION OF MOLECULAR ORIENTATION IN LIQUID WATER BY NEUTRON AND X-RAY SCATTERING
 MOL. PHYS., V.21, P.901-P.926 (1971)
 D2.O ..NEUTRON DIFFRACTION/ X-RAY/ STRUCTURE FACTOR/ MOLECULAR ORIENTATION
- 71-PA-02 PAL, S.
 LATTICE VIBRATIONS IN PALLADIUM
 J. PHYS., F, LONDON, V.1, P.588-P.592 (1971)
 PD ..CALCULATION/ PHONON DISPERSION/ PHONON DENSITY/ DEBYE TEMPERATURE
- 71-PA-03 PAWLEY, G.S./ REYNOLDS, P.A./ KJEMS, J.K./ WHITE, J.W.
 A MODEL CALCULATION OF THE INELASTIC NEUTRON SCATTERING SPECTRA FROM POLYCRYSTALLINE NAPHTHALENE
 SOLID STATE COMMUN., V.9, P.1353 (1971)
 NAPHTHALENE ..THEORY/ POLYCRYSTAL/ LATTICE DYNAMICS
- 71-PA-04 PAWLEY, G.S./ RINALDI, R.P./ WINDSOR, C.G.
 THE LATTICE DYNAMICS OF ORTHORHOMBIC SULPHUR
 PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.223-P.227 (1971)
 S ..THEORY/ EXPERIMENT/ PHONON DISPERSION
- 71-PI-01 PICK, R.M.
 MICROSCOPIC THEORY AND SHELL MODEL IN INSULATORS
 PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.20-P.34 (1971)
 THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MICROSCOPIC THEORY / SHELL MODEL/ INSULATORS
- 71-PL-01 PLAKIDA, N.M.
 NEUTRON SCATTERING BY HIGHLY ANHARMONIC CRYSTALS (IN RUSSIAN)
 JINR-P4-6066 (1971)
 NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLIDS/ LATTICE DYNAMICS/ ANHARMONICITY/ SCATTERING LAW

- 71-PL-02 PLAKIDA, N.M.
PHONONS IN ANHARMONIC METALS
J. PHYS., C, LONDON, V.4, P.1680-P.1691 (1971)
THEORY-OF-SOLIDS .THEORY/ ANHARMONIC METAL/ PHONON SPE
CTRUM
- 71-PL-03 PLIHAL, M./ SCHAACK, G.
PHONON DISPERSION IN CRYSTALS OF CALCITE STRUCTURE
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.74-P.78 (1971)
CA.C.03 .THEORY/ PHONON DISPERSION/ SHELL MODEL
- 71-PR-01 PRAKASH, S./ JOSHI, S.K.
LATTICE DYNAMICS OF TRANSITION METALS-APPLICATION TO PA
RAMAGNETIC NICKEL
PHYS. REV. B, V.4, P.1770-P.1778 (1971)
NI .THEORY/ DISPERSION CURVE/ TWO-BAND MODEL/ HARTREE
APPROXIMATION
- 71-PR-02 PRESS, W./ DORNER, B./ STILLER, H.
THE ELASTIC CONSTANTS OF SOLID C.D4 -1.FROM NEUTRON MEA
SUREMENTS
C.H4 .EXPERIMENT/ SOLID C.D4/ PHONON DISPERSION
- 71-PR-03 PRESS, W.
NEUTRON SCATTERING EXPERIMENTS ON SOLID C.D4
JUR-738-FF (1971)
C.H4 .EXPERIMENT/ SOLIDS/ LATTICE DYNAMICS/ DISPERSION
RELATION/ MOLECULAR VIBRATIONS
- 71-PR-04 PRICE, D.L./ ROWE, J.M./ NICKLOW, R.M.
LATTICE DYNAMICS OF GREY TIN AND INDIUM ANTIMONIDE
PHYS. REV. B, V.3, P.1268-P.1279 (1971)
SN/ IN.SB .EXPERIMENT/ PHONON DISPERSION CURVE .,90DK
FOR SN/ 300DK FOR IN.SB
- 71-PR-05 PRICE, D.L./ ROWE, J.M.
LATTICE DYNAMICS OF GREY TIN AND INDIUM ANTIMONIDE
PHYS. REV. B, V.3, P.1268-P.1279 (1971)
SN/ IN.SB .EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL
CALCULATION
- 71-PR-06 PRUEITT, M.L.
COMPUTER SIMULATION OF MOLECULAR DYNAMICS
LA-4696 (1971)
THEORY-OF-FLUIDS .HYDRODYNAMICS
- 71-RA-01 RAHMAN, A./ STILLINGER, F.H.
MOLECULAR DYNAMICS STUDY OF LIQUID WATER
J. CHEM. PHYS., V.55, P.3336-P.3359 (1971)
- H2.O .COMPUTER SIMULATION/ CORRELATION FUNCTION/ SELF-
DIFFUSION/ FREQUENCY SPECTRA
- 71-RA-02 RAICH, J.C./ ETTERS, R.D.
SOFT MODES IN MOLECULAR CRYSTALS
J. CHEM. PHYS., V.55, P.3901 (1971)
THEORY-OF-SOLIDS .THEORY/ FREQUENCY DISTRIBUTION FUNCT
ION .ORIENTATIONAL ORDER DISORDER TRANSITION
- 71-RA-03 RAO, K.R./ DASAUNACHARYA, B.A./ YIP, S.
MULTIPLE SCATTERINGS IN LIQUID METHANE
J. PHYS., C, LONDON, V.4, P.2725-P.2733 (1971)
METHANE .MULTIPLE SCATTERING/ CALCULATION/ CORRECTION
- 71-RA-04 RAO, K.R./ TREVINO, S.F./ PRASK, H./ MICAL, R.D.
LATTICE DYNAMICS OF K.N3
PHYS. REV. B, V.4, P.4551-P.4555 (1971)
K.N3 .EXPERIMENT/ PHONON DISPERSION/ RIGID-ION MODEL F
ITTING
- 71-RA-05 RAO, K.R./ TREVINO, S.F./ PRASK, H.
LATTICE DYNAMICS OF K.N3
PHYS. REV. B, V.4, P.4551-P.4555 (1971)
K.N3 .EXPERIMENT/ PHONON DISPERSION/ RIGID ION MODEL C
ALCULATION
- 71-RE-01 REESE, R.A./ SINHA, S.K./ BRUN, T.O./ TILFORD, C.R.
PHONON DISPERSION RELATIONS FOR HCP HE-4 AT A MOLAR VOL
UME OF 16CC
PHYS. REV. A, V.3, P.1688-P.1698 (1971)
HE .EXPERIMENT/ PHONON DISPERSION/ 4.2K/ PHONON DENSIT
Y
- 71-RE-02 RENKAR, B.
LATTICE DYNAMICS OF D2.O - ICE IH
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.167-P.170 (1971)
D2.O .EXPERIMENT/ ICE/ HEXAGONAL/ PHONON DISPERSION
- 71-RE-03 RENKER, B.
GITTERDYNAMIK VON D2.O-EIS IH
KFK-1497 (1971)
D2.O .LATTICE DYNAMICS/ SOLID/ THEORY/ EXPERIMENT/ BOR
N-VON KARMAN MODEL/ DISPERSION RELATION/ FREQUENCY DIST
RIBUTION .ICE
- 71-RI-01 RISTE, T./ SAMUELSEN, E.J./ OTNES, K./ FEDER, J.
CRITICAL BEHAVIOUR OF SR.TI.03 NEAR THE 105 K PHASE TRA
NSITION
SOLID STATE COMMUN., V.9, P.1455-P.1458 (1971)
SR.TI.03 .PHASE TRANSITION/ CRITICAL SCATTERING/ SOFT

PHONON/ CENTRAL PEAK

- 71-RO-01 ROLANDSON, S./ RAUNIO, G.
LATTICE DYNAMICS OF CS,BR
AE-435 (1971)
CS,BR ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITT
ING/ PHONON DENSITY
- 71-RO-02 ROLANDSON, S./ RAUNIO, G.
LATTICE DYNAMICS OF RB,BR
J. PHYS., C. LONDON, V.4, P.958-P.965 (1971)
RB,BR ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITT
ING/ ELASTIC CONSTANT/ DIELECTRIC CONSTANT/ FREQUENCY S
PECTRA
- 71-RO-03 ROLANDSON, S./ RAUNIO, G.
LATTICE DYNAMICS OF CS,BR
PHYS. REV. B, V.4, P.4617-P.4623 (1971)
CS,BR ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITT
ING/ PHONON DENSITY/ DEBYE-TEMP.
- 71-RO-04 ROSCISEWSKI, K.
INCOHERENT CROSS-SECTION FOR NEUTRON QUASIELASTIC SCATT
ERING IN A LIQUID CRYSTAL
INP-776/PS (1971)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ INCOHERENT/ QUAS
IELASTIC/ LIQUID CRYSTAL
- 71-RO-05 ROWE, J.M./ SKOELD, K./ FLOTOW, H.E./ RUSH, J.J.
QUASIELASTIC NEUTRON SCATTERING BY HYDRO GEN IN THE ALP
HA AND BETA PHASES OF VANADIUM HYDRIDE
J. PHYS. CHEM. SOLIDS, V.32, P.41-P.54 (1971)
PD-H ..EXPERIMENT/ QUASIELASTIC SCATTERING ..DIFFUSIVE
MOTION
- 71-RO-06 ROWELL, J.M./ MCMILLAN, W.L./ FELDMANN, W.L.
SUPERCONDUCTIVITY AND LATTICE DYNAMICS OF WHITE TIN
PHYS. REV. B, V.3, P.4065-P.4073 (1971)
SN ..EXPERIMENT/ ELECTRON TUNNELING/ PHONON SPECTRUM
- 71-RO-07 ROY, A.P.
TEMPERATURE VARIATION OF THE FREQUENCY OF LONGITUDINAL
INTER-PLANAR OSCILLATIONS IN PYROLITIC GRAPHITE
CAN. J. PHYS., V.49, P.277-P.279 (1971)
GRAPHITE ..EXPERIMENT/ TEMPERATURE EFFECT/ PHONON FREQU
ENCY
- 71-SA-01 SAASTAMOINEN, J./ PALMGREN, A.
SCATTERING CROSS-SECTION AT SUBTHERMAL ENERGIES AND GEN
ERALIZED PHONON FREQUENCY SPECTRUM OF ZIRCONIUM HYDRIDE
J. NUCL. ENERGY, V.25, P.189 (1971)
ZR-H ..EXPERIMENT/ SOLID/ SCATTERING CROSS SECTION
- 71-SA-02 SAUNDERSON, D.H./ PECKHAM, G.E.
DISPERSION RELATIONS IN CALCIUM OXIDE BY NEUTRON SPECTR
OSCOPY
PHONONS. (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.171-P.176 (1971)
CA.O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITT
ING
- 71-SA-03 SAUNDERSON, D.H./ PECKHAM, G.E.
THE LATTICE DYNAMICS OF CALCIUM OXIDE
J. PHYS., C. LONDON, V.4, P.2009-P.2016 (1971)
CA.O ..EXPERIMENT/ DISPERSION CURVE/ NEUTRON SCATTERING
/ THEORY/ FREQUENCY SPECTRUM ..TRIPLE AXIS SPECTROMETER/
MG.O COMPARISON
- 71-SC-01 SCHMUCK, P.
A PSEUDOPOTENTIAL CALCULATION OF THE PHONON SPECTRUM OF
ALUMINIUM
Z. PHYS., V.248, P.111 (1971)
AL ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATI
ON ..PSEUDOPOTENTIAL/ OPW METHOD
- 71-SH-01 SHARMA, P.K./ SINGH, N.
PHONON DISPERSION IN NOBLE METALS
PHYS. REV. B, V.4, P.4636-P.4639 (1971)
CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ METAL
- 71-SH-02 SHARP, R.I./ WARMING, E.
THE LATTICE DYNAMICS OF ANTIMONY
J. PHYS., F. LONDON, V.1, P.570-P.587 (1971)
SB ..EXPERIMENT/ PHONON DISPERSION
- 71-SH-03 SHAW, W.M./ MUHLESTEIN, L.D.
INVESTIGATION OF THE PHONON DISPERSION RELATIONS OF CHR
OMIUM BY INELASTIC NEUTRON SCATTERING
PHYS. REV. B, V.4, P.969-P.973 (1971)
CR ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/
KOHN EFFECT/ FREQUENCY SPECTRA
- 71-SH-04 SHAW, W.M./ MUHLESTEIN, L.D.
INVESTIGATION OF THE PHONON DISPERSION RELATIONS OF CHR
OMIUM BY INELASTIC NEUTRON SCATTERING
PHYS. REV. B, V.4, P.969-P.973 (1971)
CR ..EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRUM/
KOHN ANOMARY
- 71-SH-05 SHIRANE, G./ AXE, J.D./ BIRGENEAU, R.J.
LATTICE DYNAMICAL PHASE TRANSITION IN V3.SI
SOLID STATE COMMUN., V.9, P.397-P.398 (1971)
V3.SI ..EXPERIMENT/ PHONON DISPERSION/ TEMPERATURE DEPE
NDENCE

- 71-SH-06 SHIRANE, G./ AXE, J.D.
ACOUSTIC-PHONON INSTABILITY AND CRITICAL SCATTERING IN
NB3.SB
PHYS. REV. LETT., V.27, P.1803-P.1806 (1971)
NB3.SN ..EXPERIMENT/ PHONON DISPERSION/ SOFT PHONON/ PH
ASE TRANSITION
- 71-SH-07 SHUKLA, M.M./ CAVALHEIRO, R.
THE EXTENDED DE LAUNAY'S MODEL FOR LATTICE DYNAMICS OF
CUBIC METALS
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.313-P.317 (1971)
CU ..THEORY/ METAL/ PHONON DISPERSION/ DE-LAUNAY MODEL
- 71-SI-01 SINGH, N./ SHARMA, P.K.
DEBYE-WALLER FACTORS OF CUBIC METALS
PHYS. REV. B, V.3, P.1141-P.1148 (1971)
CU/ AG/ AU/ AL/ NI/ NA/ CR/ FE ..THEORY/ DEBYE-WALLER F
ACTOR
- 71-SI-02 SINGH, R.D./ GUPTA, V.D.
VIBRATIONAL PROPERTIES OF HELICAL POLYGLYCINE
CHEM. PHYS. LETT., V.8, P.294-P.296 (1971)
POLYGLYCINE ..THEORY/ DISPERSION CURVE/ PHONON SPECTRA
- 71-SI-03 SINHA, S.K./ GUPTA, R.P.
UNIFIED MICROSCOPIC APPROACH TO THE LATTICE DYNAMICS OF
CRYSTALS
PHONONS, (ED. NUSIMOVICI, M.A.), FLAMMARION SCIENC
E, FRANCE, P.35-P.42 (1971)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MICROSCOPIC APPROA
CH
- 71-SM-01 SMITH, H.G./ GLAESER, W.
PHONON SPECTRA AND SUPERCONDUCTIVITY IN SOME TRANSITION
METAL CARBIDES
PHONON, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIE
NCE, FRANCE, P.145-P.149 (1971)
TA, C/ HF, C/ NB, C ..EXPERIMENT/ PHONON DISPERSION/ SUPER
CONDUCTIVITY
- 71-SO-01 SOKOLOFF, J.B.
EFFECTS OF PHONONS AND IMPURITIES ON SINGLE-PARTICLE-MO
DE NEUTRON SCATTERING IN CHROMIUM
PHYS. REV. B, V.3, P.2367 (1971)
CR ..THEORY
- 71-SO-02 SOLBRIG-JR, A.W.
VALENCE FORCE POTENTIALS FOR CALCULATING CRYSTAL VIBRAT
IONS IN SILICON
J. PHYS. CHEM, SOLIDS, V.32, P.1761-P.1768 (1971)
- SI ..THEORY/ PHONON DISPERSION/ VALENCE FORCE POTENTIAL
- 71-SO-03 SOLBRIG, H.
MULTIPLE SCATTERING OF THERMAL NEUTRON BY A PERFECT CRY
STAL 2 CALCULATION OF APPROXIMATE VALUES FOR THE INFORM
ATION @QUANTITIES
PHYS. STATUS SOLIDI B, V.47, P.143-P.151 (1971)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ MULTIPLE SCATTER
ING/ PERFECT CRYSTAL
- 71-SO-04 SOSNOWSKI, J./ MALISZEWSKI, E.F./ BEDNARSKI, S./ C
ZACHOR, A.
PHONON DISPERSION RELATIONS IN ANTIMONY
INR-P-1263/2/PS (1971)
SB ..EXPERIMENT/ PHONON DISPERSION/ 5-NEIGHBOURS MODEL
FITTING
- 71-SO-05 SOSNOWSKI, J./ MALISZEWSKI, E.F./ BEDNARSKI, S./ C
ZACHOR, A.
PHONON DISPERSION RELATIONS IN ANTIMONY
PHYS. STATUS SOLIDI B, V.44, P.65-P.68 (1971)
SB ..EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
- 71-SO-06 SOSNOWSKI, J./ MALISZEWSKI, E.F./ BEDNARSKI, S./ C
ZACHOR, A.
PHONON DISPERSION RELATIONS IN ANTIMONY
PHYS. STATUS SOLIDI B, V.44K, P.65-P.68 (1971)
SB ..EXPERIMENT/ PHONON DISPERSION
- 71-SP-01 SPCSITO, G.
HIGH-ENERGY NEUTRON SCATTERING AND THE MIHARA-PUFF THEO
RY OF THE STRUCTURE FACTOR FOR LIQUID HELIUM-FOUR
PHYS. REV. A, V.3, P.820 (1971)
HE ..THEORY
- 71-SP-02 SPIELBERG, D.H./ ARNDT, R.A./ DAMASK, A.C./ LEFKOW
ITZ, I.
DIELECTRIC AND NEUTRON INELASTIC SCATTERING MEASUREMENT
S ON PHENANTHRENE
J. CHEM. PHYS., V.54, P.2597 (1971)
PHENANTHRENE ..SOLID/ EXPERIMENT ..HINDERED VIBRATION
- 71-SR-01 SRINIVASAN, R./ RAO, R.R.
ANHARMONIC PROPERTIES OF THE HEXAGONAL METALS, MAGNESIU
M, ZINC AND BERYLLIUM - 1. LATTICE DYNAMICS AND THIRD O
RDER ELASTIC CONSTANTS
J. PHYS. CHEM, SOLIDS, V.32, P.1769-P.1788 (1971)
MG/ ZN/ BE ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTAN
T/ ANHARMONICS
- 71-ST-01 STAMENKOVIC, S.

- THEORY OF COHERENT NEUTRON SCATTERING BY HYDROGEN-BONDED FERROELECTRICS AT LOW TEMPERATURES, 1. GENERAL EXPERIMENT FOR INELASTIC COHERENT SCATTERING OF SLOW NEUTRONS AND EFFECTIVE THERMAL FACTORS
JINR-E4-6171 (1971)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ FERROELECTRICS
- 71-ST-02 STAMENKOVIC, S.
THEORY OF COHERENT NEUTRON SCATTERING BY HYDROGEN-BONDED FERROELECTRICS AT LOW TEMPERATURES, 2. SCATTERING CHARACTERISTICS AND VARIOUS CONCEPTIONS OF THE TUNNELLING QUASI-SPIN MODEL
JINR-E4-9172 (1971)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ FERROELECTRICS
- 71-ST-03 STEIN, H./ STOCKMEYER, R./ STILLER, H.
SLOW NEUTRON SCATTERING FROM HCP AND FCC SOLID HYDROGEN PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.156-P.161 (1971)
H₂ ..EXPERIMENT/ SOLID HYDROGEN/ T-O-F SPECTRA/ PHONON DENSITY
- 71-ST-04 STILLER, H./ SPRINGER, T.
QUASI-ELASTIC SCATTERING OF NEUTRONS FOR THE STUDY OF RANDOM MOTIONS IN SOLIDS
2. NATURFORSCH, A, V.26A, P.575 (1971)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ QUASI-ELASTIC SCATTERING/ RANDOM MOTION
- 71-SU-01 SUZUKI, M./ SCHNEPP, O.
INTERMOLECULAR POTENTIAL AND LATTICE DYNAMICS OF THE C₆₀ CRYSTAL
J. CHEM. PHYS., V.55, P.5347 (1971)
C₆₀ ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION FUNCTION ..SPECIFIC HEAT
- 71-SV-01 SVENSSON, E.-C./ KAMITAKAHARA, W.A.
RESONANT PERTURBATION OF PHONONS IN CU(AU) ALLOYS STUDIED BY NEUTRON SCATTERING
CAN. J. PHYS., V.49, P.2291-P.2306 (1971)
CU-AU ..EXPERIMENT/ RESONANT MODE/ SHIFT AND WIDTH OF PHONON
- 71-SW-01 SWAROOP, A./ TIWARI, L.M.
DISPERSION RELATIONS IN GOLD
PHYS. STATUS SOLIDI B, V.43K, P.153-P.155 (1971)
AU ..THEORY/ PHONON DISPERSION
- 71-SZ-01 SZIGETI, B.
FORCE CONSTANTS AND EXPERIMENTAL DATA
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.43-P.47 (1971)
- THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FORCE CONSTANTS
- 71-TA-01 TAKAHASHI, H.
QUANTUM THEORY OF CORRELATION FUNCTIONS FOR LIQUID METALS AND NORMAL LIQUIDS IN THE ZERO SOUND WAVE RANGE
PHYSICA, V.51, P.333 (1971)
THEORY-OF-FLUIDS ..THEORY/ LIQUID/ CORRELATION FUNCTION / SCATTERING LAW ..LIQUID METAL/ TWO TIME GREEN FUNCTION/ NORMAL LIQUID/ EFFECTIVE POTENTIAL
- 71-TA-02 TAKENO, S./ GODA, M.
A THEORY OF PHONONS IN AMORPHOUS SOLIDS AND ITS IMPLICATIONS TO COLLECTIVE MOTION IN SIMPLE LIQUIDS
PROGR. THEORET. PHYS., KYOTO, V.45, P.331-P.352 (1971)
THEORY-OF-FLUIDS/ THEORY-OF-SOLIDS ..THEORY/ DISORDERED SYSTEM/ AMORPHOUS SOLID/ CLASSICAL LIQUID
- 71-TE-01 TEH, H.C./ BROCKHOUSE, B.N.
LATTICE VIBRATION IN DEUTERATED AMMONIUM CHLORIDE AT 85 DK, I. EXPERIMENTAL,
PHYS. REV. B, V.3, P.2733 (1971)
AMMONIUM CHLORIDE ..EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RELATION
- 71-TH-01 THAPER, C.L./ RAO, K.R./ DASANNACHARYA, B.A./ ROY, A.P./ IYENGAR, P.K.
PHONON DISPERSION CURVES IN BERYLLIUM
PHONONS, (ED. NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.140-P.143 (1971)
BE ..EXPERIMENT/ PHONON DISPERSION/ MODIFIED AXIAL SYMMETRIC MODEL FITTING
- 71-TH-02 THOMAS, I.L.
MOTION OF THE CENTER OF MASS OF ATOMS AND MOLECULES
PHYS. REV. A, V.3, P.1022-P.1026 (1971)
MISCELLANEOUS ..THEORY ..MOTION OF CENTER OF MASS IN PRESENCE OF EXTERNAL RADIATION
- 71-TI-01 TIITTA, A./ TUNKALO, E.
MULTIPLE SCATTERING IN AN INELASTIC NEUTRON SCATTERING WITH LIQUID METHANE
PHYSICA, V.54, P.393 (1971)
METHANE ..LIQUID/ MULTIPLE SCATTERING
- 71-TO-01 TOUSSAINT, G.
STUDY ON LATTICE DYNAMICS OF CADMIUM BY X-RAY SCATTERING
G. AT 88K
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCIENCE, FRANCE, P.129-P.133 (1971)
CD ..EXPERIMENT/ PHONON DISPERSION/ X-RAY SCATTERING

- 71-TO-02 TOWERS, G.R.
INFLUENCE OF SHORT-RANGE ORDER ON THE LATTICE VIBRATION
S OF ALLOYS
PHONONS, (ED. BY NUSIMOVICI, M.A.), FLAMMARION SCI
ENCE, FRANCE, P.308-P.312 (1971)
THEORY-OF-SOLIDS ..LATTICE VIBRATION/ ALLOYS/ SHORT-RAN
GE ORDER
- 71-TR-01 TRAYLOR, J.G./ SMITH, H.G./ NICKLOW, R.M./ WILKINS
ON, M.K.
LATTICE DYNAMICS OF RUTILE
PHYS. REV. B, V.3, P.3457-P.3472 (1971)
T1.02 ..EXPERIMENT/ DISPERSION CURVE/ NEUTRON SCATTERIN
G/ THEORY/ FREQUENCYSPECTRUM ..TEMPERATURE DEPENDENCE
- 71-TR-02 TRAYLOR, J.G./ STASSIS, C./ REESE, R.A./ SINHA, S.
K.
PHONON SPECTRA OF FCC HE-4
IS-2778 (1971)
HE ..EXPERIMENT/ PHONON DISPERSION/ FCC HE
- 71-TR-03 TREFLER, M.
THE DYNAMICS OF AMMONIUM ION IN (N,H4)2.S.O4
CAN. J. PHYS., V.49, P.1694-P.1696 (1971)
(N,H4)2.S.O4 ..FAR INFRARED EXPERIMENT
- 71-TR-04 TRIPATHI, B.B./ BEHARI, J.
CRYSTAL DYNAMICS OF LIGHT WEIGHT ALKALI METALS
J. PHYS., F. LONDON, V.1, P.19-P.27 (1971)
LI/ NA/ K ..CALCULATION/ PHONON DISPERSION/ DEBYE TEMP.
- 71-TR-05 TROTT, A.J./ HEALD, P.T.
THE LATTICE DYNAMICS OF THE HEXAGONAL CLOSE-PACKED META
LS
PHYS. STATUS SOLIDI B, V.46, P.361-P.368 (1971)
BE/ MG/ ZN ..THEORY/ PHONON DISPERSION AND SPECTRA/ HEX
AGONAL LATTICE
- 71-VA-01 VAN-LOEF, J.J.
THE SELF-DIFFUSION COEFFICIENT IN ARGON AT LIQUID DENSI
TIES
PHYS. LETT., A, V.35, P.169 (1971)
AR ..EXPERIMENT/ LIQUID/ SELF-DIFFUSION
- 71-VE-01 VERMA, M.P./ SINGH, R.K.
LATTICE DYNAMICS OF LI.H, LI.F AND LI.CL
J. PHYS., C, LONDON, V.4, P.2749-P.2758 (1971)
LI.H/ LI.F/ LI.CL ..THEORY/ PHONON DISPERSION/ STATE DE
NSITY
- 71-WA-01 WAKABAYASHI, N./ SINHA, S.K./ SPEDDING, F.H.
PHONON SPECTRUM OF SCANDIUM METAL BY INELASTIC SCATTERI
NG OF NEUTRONS
PHYS. REV. B, V.4, P.2398-P.2406 (1971)
SC ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHON
ON DENSITY/ DEBYE TEMPERATURE
- 71-WA-02 WAKABAYASHI, N./ NICKLOW, R.M./ SMITH, H.G.
NEUTRON SCATTERING INVESTIGATION OF IMPURITY PHONON MOD
ES IN GE(9.2 PERCENT SI)
PHYS. REV. B, V.4, P.2558-P.2560 (1971)
GE-SI ..EXPERIMENT/ LOCAL MODE/ IMPURITY EFFECT
- 71-WA-03 WAKABAYASHI, N./ NICKLOW, R.M./ SMITH, H.G.
NEUTRON SCATTERING INVESTIGATION OF IMPURITY PHONON MOD
ES IN GE(9.2PER-CENT SI)
PHYS. REV. B, V.4, P.2558-P.2560 (1971)
GE-SI ..EXPERIMENT/ IMPURITY EFFECT/ LOCAL MODE/ MASS D
EFFECT
- 71-WA-04 WARSHEL, A.
ANHARMONICITY IN CRYSTAL VIBRATIONS
J. CHEM. PHYS., V.54, P.5324-P.5330 (1971)
THEORY-OF-SOLIDS ..LATTICE VIBRATION/ MOLECULAR CRYSTAL
/ ANHARMONICITY
- 71-WA-05 WASEDA, Y./ SUZUKI, K.
PAIR POTENTIALS IN LIQUID CS AND AR BY THE BORN-GREEN E
QUATION
PHYS. LETT., A, V.34, P.69 (1971)
CS/ AR ..THEORY/ LIQUID ..PAIR POTENTIAL/ BORN-GREEN E@
UATION
- 71-WA-06 WASEDA, Y./ SUZUKI, K.
STRUCTURE OF LIQUID ANTIMONY BY NEUTRON DIFFRACTION
PHYS. STATUS SOLIDI B, V.47, P.581-P.590 (1971)
SB ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR
- 71-WE-01 WERNER, S.A./ PLYNN, R.
RESOLUTION EFFECTS IN THE MEASUREMENT OF PHONONS IN SOD
IUM METAL
J. APPL. PHYS., V.42, P.4736 (1971)
NA ..PHONON DISPERSION
- 71-WI-01 WINFIELD, D.J.
MEASUREMENT OF THE APPARENT DIFFUSION COEFFICIENT OF TO
LUENE BY QUASIELASTIC NEUTRON SCATTERING
J. CHEM. PHYS., V.54, P.3643 (1971)
TOLUENE ..LIQUID/ QUASIELASTIC PEAK/ EXPERIMENT,
- 71-WO-01 WORLTON, T.G./ SCHMUNK, R.E.
LATTICE VIBRATIONS OF THALLIUM AT 77 AND 296K
PHYS. REV. B, V.3, P.4115-P.4123 (1971)

- TL ..EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRA .
77DK/ 296DK
- 71-YA-01 YASUKAWA, T./ KIMURA, M./ WATANABE, N./ YAMADA, Y.
NEUTRON DOWN-SCATTERING SPECTRUM OF ISOTACTIC POLYPROPYLENE
J. CHEM. PHYS., V.55, P.983-P.984 (1971)
POLYPROPYLENE ..EXPERIMENT/ TOF SPECTRUM/ FREQUENCY DISTRIBUTION
- 71-ZE-01 ZEIDLER, M.D.
A COMPARATIVE STUDY OF QUASIELASTIC NEUTRON SCATTERING AND NMR RELAXATION IN LIQUID ACETONITRILE
BER, BUNSENGES. PHYS. CHEM., V.75, P.769 (1971)
ACETONITRILE ..QUASIELASTIC SCATTERING/ LIQUID
- 71-ZE-02 ZERBI, G./ PISERI, L./ CABASSI, F.
VIBRATIONAL SPECTRUM OF CHAIN MOLECULES WITH CONFORMATIONAL DISORDER, POLYETHYLENE
MOL. PHYS., V.22, P.241-P.256 (1971)
POLYETHYLENE ..THEORY/ FREQUENCY SPECTRA/ PERFECT AND IRREGULAR POLYMER CHAIN
- 72-AG-01 AGRAWAL, B.K./ RAM, P.N.
LATTICE DYNAMICS OF CS₂ CONTAINING IMPURITY IONS
PHYS. REV. B, V.4, P.2774-P.2780 (1972)
CS₂ ..THEORY/ IMPURITY EFFECT/ LATTICE DYNAMICS
- 72-AH-01 AHMAD, A.A.Z./ SMITH, H.G./ WAKABAYASHI, N./ WILKINSON, M.K.
LATTICE DYNAMICS OF CESIUM CHLORIDE
PHYS. REV. B, V.6, P.3956-P.3961 (1972)
CS₂CL ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECTRUM
- 72-AH-02 AHTEE, M./ GLAZER, A.M./ MEGAW, H.D.
THE STRUCTURES OF SODIUM NIOBATE BETWEEN 480 AND 575C, AND THEIR RELEVANCE TO SOFT-PHONON MODES
PHIL. MAG., V.26, P.995-P.1014 (1972)
NA,NB.O3 ..THEORY/ PHASE TRANSITION/ SOFT PHONON
- 72-AK-01 AKCASU, A.Z./ LINNEBUR, E.J.
A MODELLED KINETIC EQUATION WITH TWO RELAXATION TIMES
NEUTRON INELASTIC SCATTERING, IAEA, P.365-P.380 (1972)
THEORY-OF-FLUIDS ..MODELLED KINETIC EQUATION/ TWO DAMPING CONSTANT
- 72-AL-01 ALEFELD, B./ BOHN, H.G./ STUMP, N.
INVESTIGATION OF THE JUMP RATE OF PROTONS IN BETA-NB-H BY MEANS OF HIGH RESOLUTION QUASI-ELASTIC NEUTRON SCATTERING AND NMR
- NB-H ..EXPERIMENT/ HYDROGEN DIFFUSION/ QUASI-ELASTIC
- 72-AL-02 ALLEN, G.
THE DYNAMICS OF POLYMER CHAINS
NEUTRON INELASTIC SCATTERING, IAEA, P.261-P.274 (1972)
REVIEW-ARTICLES ..POLYMER CHAIN/ DYNAMICS
- 72-AL-03 ALLEN, P.B.
NEUTRON SPECTROSCOPY OF SUPERCONDUCTORS
PHYS. REV. B, V.6, P.2577-P.2579 (1972)
THEORY-OF-SOLIDS ..PHONON WIDTHS/ ELECTRON-PHONON INTERACTION/ SUPERCONDUCTIVITY
- 72-AL-04 ALPENIN, H.A./ PICANT, S.J./ RHYNE, J.J./ MINKIEWICZ, V.J.
SOFTENING OF THE TRANSVERSE-OPTIC MODE IN PbTe
PHYS. LETT., A, V.40, P.295-P.296 (1972)
PbTe ..EXPERIMENT/ DISPERSION RELATION/ SOFT PHONON/ CURIE LAW/ TEMPERATURE CHANGE
- 72-AN-01 ANDRIESSE, C.D./ LEGRAND, E.
PAIR POTENTIAL FOR ARGON FROM NEUTRON DIFFRACTION AT LOW DENSITY
PHYSICA, V.57, P.191-P.204 (1972)
AR ..EXPERIMENT/ NEUTRON DIFFRACTION
- 72-AN-02 ANTONINI, B./ MINKIEWICZ, V.J.
NEUTRON SCATTERING STUDY OF SPIN WAVES AND PHONONS IN Mn-PT₃
SOLID STATE COMMUN., V.10, P.203 (1972)
Mn-PT ..EXPERIMENT/ DISPERSION RELATION/ Mn-PT₃ ..SPIN WAVE AND PHONON
- 72-AN-03 ANTONINI, M./ CORCHIA, M.
MULTIPLE SCATTERING OF NEUTRONS IN LIQUID GALLIUM
NUOVO CIM., B, V.10, P.117-P.126 (1972)
GA ..EXPERIMENT/ LIQUID STRUCTURE/ MULTIPLE SCATTERING
- 72-AN-04 ANTONINI, M./ SOSNOWSKA, I./ VADACCHINO, M.
INCOHERENT NEUTRON SCATTERING FROM HYDROGEN BOND IN KDP AND ADP
RT/FT (72)36 (1972)
K,H₂P.O₄/ N,H₄H₂P.O₄ ..ELASTIC SCATTERING/ INTERFERENCE EFFECT/ PARAELECTRIC PHASE
- 72-AN-05 ANTONINI, M./ CORCHIA, M.
MULTIPLE SCATTERING OF NEUTRONS IN LIQUID GALLIUM
NUOVO CIM., B, V.10B, P.117 (1972)
GA ..DYNAMICS OF LIQUIDS

- 72-AR-01 ARSIC-ESKINJA, M./ GRIMM, H./ STILLER, H.
NEUTRON MEASUREMENTS ON THE FERROELECTRIC PHASE TRANSFORMATION IN K₂H₂P₂O₄
NEUTRON INELASTIC SCATTERING, IAEA, P.825-P.840 (1972)
K.H₂P₂O₄ ..EXPERIMENT/ ELASTIC SCATTERING/ PHASE TRANSITION
- 72-BA-01 BAJPAI, R.P.
ON PHONON DISPERSION IN HCP METALS
PHYSICA, V.62, P.574-P.586 (1972)
MG/ ZR/ Y/ TI/ TL/ HF ..THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE
- 72-BA-02 BAJPAI, R.P./ NEELAKANDAN, K.
ON THE PHONON DISPERSION IN ALKALI METALS
PHYSICA, V.62, P.587-P.594 (1972)
LI/ NA/ K ..THEORY/ PHONON DISPERSION/ BCC METAL/ AXIAL LYSYMMETRIC MODEL
- 72-BA-03 BAJPAI, R.P.
PHONON DISPERSION IN ZINC(A PSEUDOPOTENTIAL APPROACH)
PHYS. LETT., A, V.42, P.163 (1972)
ZN ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL
- 72-BA-04 BAJPAI, R.P./ ONO, M.
LATTICE VIBRATIONS OF MAGNESIUM: A MODEL POTENTIAL APPROACH
PHYS. LETT., A, V.41, P.141 (1972)
MG ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
- 72-BA-05 BAJPAI, R.P./ NEELAKANDAN, K.
LATTICE DYNAMICS OF TRANSITION METALS
NUOVO CIM., B, V.7, P.177-P.184 (1972)
FE/ NB/ TA/ W ..THEORY/ PHONON DISPERSION/ BCC METAL/ MODIFIED AXIALSYMMETRIC MODEL
- 72-BA-06 BARKER, M.I./ GASKELL, T.
DENSITY FLUCTUATIONS IN SIMPLE LIQUIDS . A GENERALIZED HYDRODYNAMIC APPROACH
J. PHYS., C, LONDON, V.5, P.3279-P.3288 (1972)
ARGON/ THEORY-OF-FLUIDS ..CORRELATION FUNCTION
- 72-BA-07 BARNES, J.D.
NEUTRON INELASTIC SCATTERING STUDY OF THE ROTATOR* PHASE TRANSITION IN N-ALKANES
NEUTRON INELASTIC SCATTERING, IAEA, P.287-P.298 (1972)
NONADECANE/ EICOSANE ..EXPERIMENT/ QUASI-ELASTIC PEAK/ ROTATIONAL DIFFUSION/ PLASTIC CRYSTAL
- 72-BA-08 BASU, A.N./ SENGUPTA, S.
DEFORMABLE SHELL MODEL AND THE PROPERTIES OF LI.F CRYSTAL
J. PHYS., C, LONDON, V.5, P.1158-P.1164 (1972)
LI.F ..CALCULATION/ DEFORMABLE SHELL MODEL/ PHONON DISPERSION/ STATE DENSITY/ ELASTIC CONSTANT
- 72-BA-09 BAUR, H.
ACOUSTIC PHONONS IN POLYMER-CRYSTALS
KOLLOID-Z, Z. POLYM., V.250, P.1000-P.1015 (1972)
REVIEW-ARTICLES ..POLYMER-CRYSTAL/ PHONON/ DISPERSION CURVE/ THERMAL PROPERTIES
- 72-BE-01 BEHARI, J./ TRIPATHI, B.B.
LATTICE DYNAMICS OF SOME BCC TRANSITION METALS
J. PHYS. SOC. JAP., V.33, P.1207-P.1213 (1972)
FE/ MO/ W ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA
- 72-BE-02 BEHARI, J.
SOME LATTICE DYNAMICAL PROPERTIES OF LEAD ON A PSEUDOPOTENTIAL APPROACH
PHIL. MAG., V.26, P.737 (1972)
PB ..THEORY/ SOLID/ LATTICE DYNAMICS
- 72-BI-01 BIRCHALL, J.H.L./ ROSS, D.K.
A NEUTRON SCATTERING STUDY OF HYDROGEN MOTIONS IN NIOBIUM
JUL-CONF-6, V.6, P.313-P.345 (1972)
NB-H ..EXPERIMENT/ LOCAL MODE/ SINGLE CRYSTAL/ 130C-400C
- 72-BI-02 BIRCHALL, J.H.L./ ROSS, D.K.
A NEUTRON SCATTERING STUDY OF HYDROGEN MOTIONS IN NIOBIUM
BER, BUNSENSES, PHYS. CHEM., V.76, P.782 (1972)
NB-H ..HYDROGEN MOTION
- 72-BO-01 BOBETIC, M.V./ BARKER, J.A./ KLEIN, M.L.
LATTICE DYNAMICS WITH THREE-BODY FORCES. 2. KRYPTON
PHYS. REV. B, V.5, P.3185-P.3189 (1972)
KR ..THEORY/ DEBYE PARAMETER/ THERMAL EXPANSION/ BULK MODULUS
- 72-BO-02 BOERIO, F.J./ CORNELL, D.D.
LATTICE MODES AND INTERMOLECULAR POTENTIAL OF ORTHORHOMBIC POLYOXYMETHYLENE
J. CHEM. PHYS., V.56, P.1516-P.1519 (1972)
POLYOXYMETHYLENE ..THEORY/ DISPERSION CURVE/ FREQUENCY SPECTRA/ RAMAN EXPERIMENT

- 72-BO-03 BOHLIN, L.
INTERFERENCE EFFECTS IN THE INELASTIC SCATTERING OF NEUTRONS BY AN ANHARMONIC NEON CRYSTAL
SOLID STATE COMMUN., V.10, P.1219-P.1222 (1972)
NE ..THEORY/ INELASTIC SCATTERING PROFIL/ NUMERICAL CALCULATION/ SOLID
- 72-BR-01 BRIER, P.N./ HIGGINS, J.S.
MODEL CALCULATIONS FOR THE LOW-ENERGY SCATTERING FROM CARBON
.H2.CL2
NEUTRON INELASTIC SCATTERING, IAEA, P.461-P.474 (1972)
C.H2.CL2 ..EXPERIMENT/ MOLECULAR LIQUID/ TOF SPECTRA/ MODEL ANALYSIS
- 72-BR-02 BRIGGS, G.A./ DUFFILL, C./ HUTCHINGS, M.T./ LOWDE, R.D./ SATYA-MURTHY, N.S./
PHONON AND MAGNON EXCITATIONS IN NI-S
NEUTRON INELASTIC SCATTERING, IAEA, P.669-P.677 (1972)
- NI.S ..EXPERIMENT/ PHONON AND MAGNON DISPERSION
- 72-BU-01 BURENKOV, Y.A./ VALIEV, A.A./ NIKANOROV, S.P./ STEPANOV, A.V.
TEMPERATURE DEPENDENCES OF THE ELASTIC CONSTANTS OF BISPHENOL A
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.14 (V.14), P.264-P.265 (P.215-P.216) (1972 (1972))
81 ..EXPERIMENT/ ELASTIC CONSTANTS/ 300-544DK
- 72-BU-02 BUTLAND, A.T.D./ MADDISON, R.J.
THE SPECIFIC HEAT OF GRAPHITE, AN EVALUATION OF MEASUREMENT
AEEW-R-815 (1972)
GRAPHITE ..REVIEW/ EVALUATION/ SPECIFIC HEAT
- 72-BU-03 BUTLAND, A.T.D./ CHUDLEY, C.T.
A COMPARATIVE STUDY OF VARIOUS LIGHT WATER SCATTERING MODELS USED IN THERMAL REACTOR CALCULATIONS
AEEW-R-814 (1972)
H2.O ..SCATTERING MODEL CALCULATION/ INTEGRAL PARAMETER
- 72-BU-04 BUTLAND, A.T.D.
COMPARISON OF LEAP, TOR AND SLAB, PROGRAMMES FOR COMPUTING THE SCATTERING LAW (ALPHA, BETA) FROM A PHONON FREQUENCY FUNCTION
AEEW-M-1136 (1972)
COMPUTER-CODES ..PHONON SPECTRA/ SCATTERING LAW
- 72-BU-05 BUTLAND, A.T.D.
THERMAL NEUTRON SCATTER BY GRAPHITE ASSUMING THE CRYSTAL
- L HAS AN ISOTROPIC STRUCTURE
AEEW-R-813 (1972)
GRAPHITE ..SCATTERING MATRICES/ PHONON SPECTRUM/ SPECIFIC HEAT/ ASSUMING ISOTROPIC STRUCTURE
- 72-BU-06 BUYERS, W.J.L./ SEARS, V.F./ LONNGI, P.A./ LONNGI, D.A.
COLLECTIVE AND SINGLE-PARTICLE EXCITATIONS IN LIQUID NEUTRON INELASTIC SCATTERING, IAEA, P.399-P.411 (1972)
NE/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ LIQUID DYNAMICS/ COLLECTIVE MOTION/ SINGLE PARTICLE EXCITATION
- 72-BU-07 BUYERS, W.J.L./ POWELL, B.M./ WOODS, A.D.B.
TEMPERATURE DEPENDENCE OF A KOHN ANOMALY IN MOLYBDENUM
CAN. J. PHYS., V.50, P.3069-P.3070 (1972)
MO ..EXPERIMENT/ PHONON DISPERSION/ KOHN ANOMALY/ TEMPERATURE EFFECT
- 72-CA-01 CARABATOS, C./ PREVOT, B.
SHELL-MODEL LATTICE DYNAMICS OF CS, CL, CS, BR, AND CS, I
CAN. J. PHYS., V.50, P.122 (1972)
CS, CL/ CS, BR/ CS, I ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..SHELL MODEL
- 72-CH-01 CHAY, T.R./ FRANK, H.S.
DENSITY FLUCTUATION IN WATER AND IN SIMPLE FLUIDS
J. CHEM. PHYS., V.57, P.2910-P.2919 (1972)
H2.O/ THEORY-OF-FLUIDS ..CORRELATION FUNCTION
- 72-CH-02 CHIHARA, J.
A GENERALIZATION OF THE HARTREE APPROXIMATION AND THE QUANTAL SPACE-TIME CORRELATION FUNCTION
PROGR. THEORET. PHYS., KYOTO, V.47, P.395-P.415 (1972)
THEORY-OF-FLUIDS ..THEORY/ QUANTAL SPACE-TIME CORRELATION/ HARTREE APPROXIMATION
- 72-CH-03 CHODOS, S.L.
LATTICE DYNAMICS OF M2.X.Y6 HEXABOROMETALLATES, CS2, UO2, BR6
J. CHEM. PHYS., V.57, P.2712 (1972)
CS2.U.BR6 ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 72-CH-04 CHOWDHURY, M.R./ ROSS, D.K.
THE DIFFUSIVE MOTIONS OF HYDROGEN IN PD-AG ALLOYS
JUL-CONF-6, V.1, P.346-P.374 (1972)
PD-AG-H ..EXPERIMENT/ QUASIELASTIC/ DIFFUSION/ 100C-360

- 72-CO-01 COHEN, S.S./ GILAT, G.
PHONON FREQUENCY SHIFTS AND FORCE-CONSTANT CHANGES IN DILUTE ALLOYS
SOLID STATE COMMUN., V.11, P.1269-P.1272 (1972)
CR-W ..THEORY/ PHONON/ ALLOY/ IMPURITY EFFECT/ FORCE-CO NSTAT CHANGE
- 72-CO-02 COHEN, S.S.
INELASTIC INCOHERENT NEUTRON SCATTERING FROM IMPURITIES IN CRYSTALS
PHYS. STATUS SOLIDI, V.50, P.673-P.679 (1972)
NEUTRON-SCATTERING-IN-SOLIDS/ SCATTERING-BY-DEFECTS ..THEORY/ INELASTIC INCOHERENT SCATTERING FROM IMPURE CRYSTALS
- 72-CO-03 COMES, R./ SHIRANE, G.
NEUTRON-SCATTERING ANALYSIS OF THE LINEAR-DISPLACEMENT CORRELATIONS IN K.TA.03
PHYS. REV. B, V.5, P.1886-P.1891 (1972)
K.TA.03 ..EXPERIMENT/ PHONON DISPERSION/ ANISOTROPY
- 72-CO-04 CORNGOLD, N.
BEHAVIOR OF AUTOCORRELATION FUNCTIONS
PHYS. REV. A, V.6, P.1570-P.1573 (1972)
THEORY-OF-FLUIDS ..THEORY/ AUTOCORRELATION/ MEMORY FUNCTION
- 72-CO-05 COWLEY, R.A.
NORMAL MODES OF VIBRATION IN CRYSTALS HAVING AN ORDER-DISORDER TRANSITION
NEUTRON INELASTIC SCATTERING, IAEA, P.813-P.824 (1972)
THEORY-OF-SOLIDS/ SCATTERING-THEORIES ..THEORY/ PHONON/ ALLOYS/ ORDER-DISORDER STATE
- 72-DA-01 DAHLBORG, U./ GRAESLUND, C./ LARSSON, K.E.
PHASE TRANSITIONS IN NEOPENTANE STUDIED BY COLD NEUTRON SCATTERING
PHYSICA, V.59, P.672-P.692 (1972)
PENTANE ..EXPERIMENT/ CRYSTAL SPECTROMETER ..PHASE TRANSITION/ OSCILLATIONAL AND ROTATIONAL MOTION/ BARRIER HEIGHT
- 72-DA-02 DASANNACHARYA, B.A./ THAPER, C.L./ GOYAL, P.S.
NEUTRON SCATTERING FROM LIQUID AMMONIA
NEUTRON INELASTIC SCATTERING, IAEA, P.477-P.486 (1972)
N.H3 ..EXPERIMENT/ MOLECULAR LIQUID/ 218K/ MODEL ANALYSIS/ SIMPLE DIFFUSION/ HINDERED RELAXATION FUNCTION
- 72-DA-03 DAUBERT, J.
PHONON DISPERSION IN CS₂
NEUTRON INELASTIC SCATTERING, IAEA, P.85-P.94 (1972)
CS₂ ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING
- 72-DA-04 DAVIDOVIC, M./ RATKOVIC, S./ JOVIC, D./ ZIVANOVIC, M.
INELASTIC INCOHERENT NEUTRON SCATTERING ON POLYCRYSTALLINE TAURINE AND ALPHA-AMINO-ISO-BUTYRIC ACID
CHEM. PHYS. LETT., V.17, P.53-P.56 (1972)
TAURINE/ ALPHA-AMINO-ISO-BUTYRIC-ACID ..EXPERIMENT/ VIBRATIONAL SPECTRUM
- 72-DA-05 DAVIDOVIC, M./ RATKOVIC, S./ JOVIC, D./ ZIVANOVIC, M.
INELASTIC INCOHERENT NEUTRON SCATTERING ON POLYCRYSTALLINE TAURINE AND ALPHA-AMINO-ISO-BUTYRIC ACID
CHEM. PHYS. LETT., V.17, P.53 (1972)
TAURINE/ BUTYRIC ACID ..INELASTIC NEUTRON SCATTERING/ INCOHERENT
- 72-DE-01 DE-GRAAF, L.A./ RUSH, J.J./ FLOTOW, H.E./ ROWE, J.M.
QUASIELASTIC THERMAL NEUTRON SCATTERING BY HYDROGEN IN ALPHA-VANDIUM HYDRIDE
J. CHEM. PHYS., V.56, P.4574-P.4581 (1972)
V-H ..EXPERIMENT/ QUASIELASTIC/ DIFFUSION BROADENING
- 72-DE-02 DE-GRAAF, L.A./ RUSH, J.J./ LIVINGSTON, R.C./ FLOTOW, H.E./ ROWE, J.M.
STUDY OF HYDROGEN DIFFUSION IN VANADIUM AND TANTALUM HYDRIDE BY QUASIELASTIC THERMAL NEUTRON SCATTERING
JUL-CONF-6, V.1, P.301-P.312 (1972)
V-H/ TA-H ..EXPERIMENT/ QUASIELASTIC/ HYDROGEN DIFFUSION IN METAL
- 72-DE-03 DE-GRAAF, L.A./ RUSH, J.J./ LIVINGSTON, R.C.
NEUTRON SCATTERING STUDY OF THE ROTATIONAL MOTIONS AND PHASE TRANSITIONS IN SODIUM- AND CAESIUM-HYDROSULFIDES
NEUTRON INELASTIC SCATTERING, IAEA, P.247-P.257 (1972)
NA.S.H/ CE.S.H ..EXPERIMENT/ MOLECULAR ROTATION/ PHASE TRANSITION/ QUASIELASTIC
- 72-DE-04 DE-MUL, F.F.
ON THE MODELS FOR MOLECULAR ROTATION IN PLASTIC CRYSTALS STUDIED BY COLD NEUTRON SCATTERING
PHYS. LETT., V.41A, P.272 (1972)
CYCLOHEXANOL ..CRYSTAL/ MOLECULAR ROTATION
- 72-DI-01 DIETRICH, O.W./ GRAF, E.H./ HUANG, C.H./ PASSELL, L.

NEUTRON SCATTERING BY ROTONS IN LIQUID HELIUM
 PHYS. REV. A, V.5, P.1377-P.1391 (1972)
 HE ..EXPERIMENT/ LIQUID/ ROTON DISPERSION/ LINE WIDTH

72-DI-02 DIMIC, V./ BARBIC, L./ BLINC, R.
 STUDY OF MOLECULAR MOTIONS IN LIQUID CRYSTALLINE MBBA B
 Y COLD NEUTRON SCATTERING
 PHYS. STATUS SOLIDI B, V.54, P.121-P.124 (1972)
 MBBA/ LIQUID-CRYSTAL ..INCOHERENT QUASIELASTIC SCATTERI
 NG/ DIFFUSION CONSTANT

72-DR-01 DREXEL, W.
 LATTICE DYNAMICS OF SILVER
 Z. PHYS., V.255, P.281-P.299 (1972)
 AG ..EXPERIMENT/ PSEUDOPOTENTIAL ANALYSIS/ PHONON DISPE
 RSION

72-DR-02 DROZ, M.
 LONG WAVELENGTH PHONON DISPERSION IN HE II
 HELV. PHYS. ACTA, V.45, P.34 (1972)
 HE ..LIQUID DYNAMICS

72-DU-01 DUBOIS, D.M.
 LIQUID-ARGON DYNAMICS FROM THE FIRST MOMENTS OF THE COH
 ERENT SCATTERING FUNCTION : THE DENSITY RESPONSE FUNCTI
 ON, THE DISPERSION CURVE AND THE INTERMEDIATE SCATTERIN
 G FUNCTION
 PHYSICA, V.60, P.27-P.40 (1972)
 AR ..THEORY/ DISPERSION/ SCATTERING FUNCTION/ LIQUID DY
 NAMICS

72-DU-02 DUFTY, J.W.
 LONG-TIME BEHAVIOR OF SPACE-AND TIME-DEPENDENT CORRELAT
 ION FUNCTIONS
 PHYS. REV. A, V.5, P.2247 (1972)
 THEORY-OF-FLUIDS ..CORRELATION FUNCTION

72-DU-03 DUTTON, D.H./ BROCKHOUSE, B.N./ MILLER, A.P.
 CRYSTAL DYNAMICS OF PLATINUM BY INELASTIC NEUTRON SCATT
 ERING
 CAN. J. PHYS., V.50, P.2915-P.2927 (1972)
 PT ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FORC
 E CONSTANT/ PHONON SPECTRUM/ TEMPERATURE VARIATION/ KHO
 N ANORMALY

72-DZ-01 DZYUB, I.P./ KOCHMARSKY, V.Z.
 PECULIARITIES OF PHONON DISPERSION IN CRYSTAL WITH SUBS
 TITUTIONAL IMPURITIES
 ITP-72-88R (1972)
 THEORY-OF-SOLIDS ..PHONON DISPERSION/ WITH SUBSTITUTION
 A IMPURITIES

72-DZ-02 DZYUB, I.P./ KOCHMARSKY, V.Z.
 INELASTIC SCATTERING OF SLOW NEUTRONS BY IMPURITY CRYST
 ALS 2. PECULIARITIES OF SCATTERING CROSS-SECTION IN THE
 RESONANCE FREQUENCY REGION OF SUBSTITUTIONAL ATOMS
 ITP-72-92P (1972)
 NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ RESONANCE MODE/
 FORCE CONSTANT CHANGE

72-EG-01 EGELSTAFF, P.A.
 TIME-DEPENDENT TRIPLET CORRELATION FUNCTIONS IN SIMPLE
 LIQUIDS
 NEUTRON INELASTIC SCATTERING, IAEA, P.383-P.397 (1
 972)
 THEORY-OF-FLUIDS/ SCATTERING-THEORIES ..TIME DEPENDENT
 TRIPLET FUNCTION/ PRESSURE DERIVATIVE OF NEUTRON SCATTE
 RING LAW

72-EG-02 EGELSTAFF, P.A./ WANG, S.S.
 DENSITY DEPENDENT POTENTIALS IN SIMPLE LIQUIDS
 CAN. J. PHYS., V.50, P.2461-P.2463 (1972)
 RB/ NE ..THEORY/ EXPERIMENT/ LIQUID/ STRUCTURE FACTOR ,
 ,DENSITY DEPENDENT POTENTIAL

72-EG-03 EGELSTAFF, P.A./ PAGE, D.I./ DUFFILL, C.
 THE MEAN SQUARE FORCE ON IONS IN LIQUID RUBIDIUM
 CAN. J. PHYS., V.50, P.3062 (1972)
 RB ..MEAN SQUARE FORCE

72-EL-01 ELCOMBE, M.M.
 THE LATTICE DYNAMICS OF STRONTIUM FLUORIDE
 J. PHYS., C, LONDON, V.5, P.2702-P.2710 (1972)
 SR,F2 ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITT
 ING/ STATE DENSITY

72-EN-01 ENZ, C.P.
 LATTICE DYNAMICS ABOVE STRUCTURAL PHASE TRANSITIONS, SR,
 T1,03
 PHYS. REV. B, V.6, P.4695-P.4702 (1972)
 SR,T1,03 ..THEORY/ SOFT MODE/ CENTRAL PEAK S(Q,0)/ PHAS
 E TRANSITION

72-ES-01 ESCHRIG, H./ URWANK, P./ FELDMANN, K./ HENNIG, K./
 WEISS, L.
 PHONONS IN MG.ZN2, MODEL POTENTIAL CALCULATIONS AND NEU
 TRON SCATTERING EXPERIMENTS
 JINR-E14-6266 (1972)
 MG,ZN2 ..THEORY/ EXPERIMENT/ MODEL-POTENTIAL/ PHONON DI
 SPERSION/ FREQUENCY DISTRIBUTION

72-ES-02 ESCHRIG, H./ FELDMANN, K./ HENNIG, K./ WEISS, L.
 PHONONS IN MG.ZN2, MODEL POTENTIAL CALCULATIONS AND NEU
 TRON SCATTERING EXPERIMENTS

- NEUTRON INELASTIC SCATTERING. IAEA, P.157-P.169 (1972)
 MG.ZN2 ..CALCULATION/ MODEL POTENTIAL THEORY/ EXPERIMENT/ PHONON DENSITY
- 72-ES-03 ESCHRIG, H./ URWANK, P./ WÖNN, H.
 CALCULATED PHONON SPECTRA AND INS CROSS SECTIONS OF MG.
 ZN2
 PHYS. STATUS SOLIDI B, V.49, P.807-P.816 (1972)
- MG.ZN2 ..THEORY/ PHONON SPECTRA/ A,B2 TYPE INTERMETALLIC COMPOUNDS
- 72-ES-04 ESCHRIG, J./ URWANK, P./ WÖNN, H.
 CALCULATED PHONON SPECTRA AND INS CROSS SECTIONS OF MG.
 ZN2
 PHYS. STATUS SOLIDI, V.49, P.807 (1972)
 MG.ZN2 ..THEORY
- 72-FA-01 FANCONI, B.
 LATTICE DYNAMICS OF POLYGLYCINE I
 J. CHEM. PHYS., V.57, P.2109 (1972)
- POLYGLYCINE ..THEORY/ DISPERSION RELATION ..2-DIMENSIONAL LATTICE VIBRATION
- 72-FI-01 FISCHER, K./ BILZ, H./ HABERKORN, R./ WEBER, W.
 COVALENCY AND DEFORMABILITY OF AG⁺ IONS IN THE LATTICE DYNAMICS OF SILVER HALIDES
 PHYS. STATUS SOLIDI B, V.54, P.285-P.294 (1972)
- AG,CL/ AG,BR ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ SHELL MODEL
- 72-FR-01 FRANCHETTI, S.
 NEXT-NEIGHBOUR DISTRIBUTIONS IN SIMPLE LIQUIDS
 NUOVO CIM., B, V.10, P.211-P.228 (1972)
- AR/ ZN ..THEORY/ RADIAL DENSITY FUNCTION
- 72-GA-01 GAUSTER, W.B.
 ELASTIC CONSTANTS AND GRUENEISEN PARAMETERS OF PYROLYTIC GRAPHITE
 PHIL. MAG., V.25, P.687 (1972)
- GRAPHITE ..THEORY/ SOLID ..ELASTIC CONSTANTS
- 72-GE-01 GENZEL, L./ MARTIN, T.P.
 LATTICE DYNAMICS OF MG.O MICROCRYSTALS
 PHYS. STATUS SOLIDI, V.51, P.101-P.106 (1972)
- MG.O ..THEORY/ FREQUENCY SPECTRA/ RIGID ION MODEL/ SMALL CRYSTAL
- 72-GE-02 GESI, K./ AXE, J.D./ SHIRANE, G./ LINZ, A.
 DISPERSION AND DAMPING OF SOFT ZONE-BOUNDARY PHONONS IN K.MN.F3
 PHYS. REV. B, V.5, P.1933-P.1941 (1972)
- K.MN.F3 ..EXPERIMENTS/ SOFT PHONON/ DISPERSION RELATION / CURIE-WEISS LAW/ DAMPING PARAMETER/ DIFFUSE SCATTERING
- 72-GE-03 GESI, K.
 LATTICE INSTABILITY AND PHASE TRANSITIONS IN K.MN.F3 (1972)
 N JAPANESE
 JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON SCATTERING, P.86-P.90 (1972)
- K.MN.F3 ..EXPERIMENT/ SOFT PHONON/ PHASE TRANSITION
- 72-GH-01 GHATAK, A.K./ KOTHARI, L.S.
 AN INTRODUCTION TO LATTICE DYNAMICS
 ADDISON-WESLEY PUBLISHING COMPANY, LONDON (1972)
- REVIEW-ARTICLES ..BOOK/ LATTICE DYNAMICS/ NEUTRON SCATTERING
- 72-GH-02 GHOSH, R.E./ WADDINGTON, T.C./ TEMME, F.P.
 ENERGY-LOSS NEUTRON SPECTROSCOPY APPLIED TO STRONGLY HYDROGEN BONDED MOLECULAR SYSTEMS
 NEUTRON INELASTIC SCATTERING, IAEA, P.345-P.353 (1972)
- NA,H.F2/ CS,H.CL2/ H,CR.O2/ H,CO.O2/ K,H.(C,CL3,C.O2)2 ..EXPERIMENT/ NEUTRON SPECTROSCOPY/ ENERGY LOSS/ MOLECULAR DYNAMICS
- 72-GI-01 GILBERT, E.
 FOURIER TRANSFORM OF INELASTIC NEUTRON SCATTERED INTENSITY FOR SOLID HE-4
 BNL-16935 (1972)
- HE ..FOURIER TRANSFORM OF SCATTERED INTENSITY/ PROBABILITY DENSITY
- 72-GI-02 GISSLER, W.
 INELASTIC NEUTRON SCATTERING BY HYDROGEN IN METALS
 JUL-CONF-6, V.1, P.284-P.285 (1972)
- NEUTRON-SCATTERING-IN-SOLIDS ..HYDROGEN IN METAL
- 72-GL-01 GLYDE, H.R./ TAYLOR, R.
 ANHARMONIC LATTICE DYNAMICS IN Na
 PHYS. REV. B, V.5, P.1206-P.1213 (1972)
- Na ..THEORY/ PHONON DISPERSION/ LIFE TIME/ ANHARMONIC/ 5, 90, 160, 293, 361K
- 72-GL-02 GLYDE, H.R./ KHANNA, F.C.
 ANHARMONIC PHONONS IN B.C.C. HE-4
 CAN. J. PHYS., V.50, P.1152-P.1155 (1972)
- HE ..THEORY/ PHONON DISPERSION/ T-MATRIX/ SCATTERING APPROXIMATION
- 72-GO-01 GODA, M.
 PHONONS IN RARE-GAS CONDENSATES AND THE LAW OF CORRESPONDENCE

- NDING STATES
 PROGR. THEORET. PHYS., KYOTO, V.47, P.1064-P.1066
 (1972)
- THEORY-OF-FLUIDS ..THEORY/ PHONON DISPERSION/ LIQUID/ L
 AW OF CORRESPONDING STATES
- 72-GO-02 GOMPF, F./ LAU, H./ REICHT, W./ SALGADO, J.
 STUDIES ON THE DETERMINATION OF THE PHONON DENSITY OF S
 TATES BY COHERENT INELASTIC SCATTERING OF SLOW NEUTRONS
 FROM POLYCRYSTALLINE SAMPLES
- NEUTRON INELASTIC SCATTERING, IAEA, P.137-P.147 (1
 972)
- PB/ AL/ CA ..EXPERIMENT/ PHONON SPECTRA/ COHERENT SCATT
 ERING
- 72-GO-03 GOYAL, P.S./ DASANNACHARYA, B.A./ THAPER, C.L./ IY
 ENGAR, P.K.
 FREQUENCY DISTRIBUTION FUNCTION OF SOLID AMMONIA
 PHYS. STATUS SOLIDI, V.50, P.701-P.708 (1972)
- AMMONIA ..EXPERIMENT/ PHONON DENSITY
- 72-GR-01 GREENFIELD, A.J./ WISER, N./ LEENSTRA, M.R./ VAN-D
 ER-LUGT, W.
 COMPARISON OF EXPERIMENTAL AND THEORETICAL STRUCTURE FA
 CTORS FOR LIQUID NA AND K
 PHYSICA, V.59, P.571-P.581 (1972)
- NA/ K ..THEORY/ LIQUID/ STRUCTURE FACTOR/ HARD-SPHERE M
 ODEL
- 72-HA-01 HANKE, W./ BILZ, H.
 PHONONS IN METALS
 NEUTRON INELASTIC SCATTERING, 1972, IAEA, P.3-P.28
 (1972)
- THEORY-OF-SOLIDS/ REVIEW-ARTICLES ..MICROSCOPIC THEORY/
 PHONON/ METAL/ REVIEW
- 72-HA-02 HARADA, J.
 SOFT MODES AND THE INELASTIC SCATTERING OF NEUTRONS (IN
 JAPANESE)
 JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON
 SCATTERING, P.77-P.85 (1972)
- BA, TI.03 ..SOFT PHONON MODE/ EXPERIMENT/ PHASE TRANSITI
 ON
- 72-HA-03 HASSAN, M./ LADO, F.
 DIFFUSIVE AND COLLECTIVE MOTION IN CLASSICAL FLUIDS
 J. CHEM. PHYS., V.57, P.3003-P.3006 (1972)
- THEORY-OF-FLUIDS ..DIFFUSION CONSTANT
- 72-HA-04 HAUTECLER, S./ VORDERWISCH, P.
 MOLECULAR MOTIONS IN SILANENE
 NEUTRON INELASTIC SCATTERING, IAEA, P.489-P.499 (1
- 972)
- SI.H4 ..EXPERIMENT/ TOF SPECTRA/ GAS AND LIQUID STATE
- 72-HA-05 HAVLIN, S./ LUBAN, M.
 PHONON SPECTRUM OF SUPERFLUID HELIUM
 PHYS. LETT., A, V.42A, P.133 (1972)
- HE ..THEORY
- 72-HA-06 HAWRANEK, J.P./ LOWNDES, R.P.
 LATTICE DYNAMICS OF SILVER BROMIDE
 SOLID STATE COMMUN., V.11, P.1473-P.1475 (1972)
- AG.BR ..THEORY/ PHONON DISPERSION/ STATE DENSITY/ DEFOR
 MATION DIPOLE MODEL
- 72-HE-01 HEARN, C.J.
 PHONON SOFTENING AND THE METAL-INSULATOR TRANSITION IN
 V.O2
 J. PHYS., C, LONDON, V.5, P.1317-P.1334 (1972)
- V.O2 ..THEORY/ METAL-NONMETAL PHASE TRANSITION/ SOFT PH
 ONON
- 72-HE-02 HENNION, B./ MOUSSA, F.
 NORMAL MODES OF VIBRATION IN CU, I
 PHYS. REV. LETT., V.28, P.964-P.966 (1972)
- CU, I ..EXPERIMENT/ DISPERSION RELATION/ RIGID ION MODEL
 / FREQUENCY DISTRIBUTION/ ELASTIC CONSTANT
- 72-HO-01 HORNER, H.
 THE EFFECT OF HARD-CORE INTERACTIONS ON CALCULATIONS OF
 PHONON FREQUENCIES AND DAMPING IN RARE GAS CRYSTALS
 NEUTRON INELASTIC SCATTERING, IAEA, P.119-P.127 (1
 972)
- HE/ NE/ AR ..THEORY/ PHONON DISPERSION/ SELFCONSISTENT
 TREATMENT
- 72-HO-02 HORNER, H.
 QUANTUM CRYSTALS, THEORY OF THE PHONON SPECTRUM
 BNL-17121 (1972)
- THEORY-OF-SOLIDS/ HE/ NE ..QUANTUM CRYSTALS/ PHONON SPE
 CTRUM
- 72-HO-03 HORNER, H.
 MULTIPHONON AND SINGLE-PARTICLE EXCITATIONS IN QUANTUM
 CRYSTALS
 BNL-17120 (1972)
- HE/ NE ..THEORY/ SCATTERING FUNCTION/ SINGLE-PARTICLE E
 XCITATION/ QUANTUM CRYSTAL
- 72-HO-04 HOROVITZ, B./ GUTFREUND, H./ WEGER, M.
 PHONON DISPERSION IN SYSTEMS WITH A PLANAR FERMI SURFAC
 E
 SOLID STATE COMMUN., V.11, P.1361-P.1364 (1972)

- THEORY-OF-SOLIDS ..THEORY/ PHONON SPECTRUM/ EFFECT OF A PLANAR FERMI SURFACE
- 72-HU-01 HULLER, A./ PRESS, W.
CRITICAL SCATTERING IN SOLID C₆D₄
PHYS. REV. LETT., V.29, P.266 (1972)
C.H4 ..CRITICAL SCATTERING/ C₆D₄
- 72-II-01 IIZUMI, M.
A METHOD OF DYNAMICAL STRUCTURE ANALYSIS AND ITS APPLICATION TO CALCIUM FLUORIDE
J. PHYS. SOC. JAP., V.33, P.647-P.665 (1972)
CA.F2
- 72-II-02 IIZUMI, M./ GESI, K./ HARADA, J.
LATTICE VIBRATION IN SR-TI.03 (IN JAPANESE)
JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON SCATTERING, P.91-P.93 (1972)
SR.TI.03 ..EXPERIMENT/ PHONON DISPERSION
- 72-IN-01 INOUE, K./ OTOMO, N./ UTSURO, M./ FUJITA, Y.
SLOW NEUTRON SPECTRA IN THE LIQUID AND SOLID METHANE
J. NUCL. SCI. TECHNOL., TOKYO, V.9, P.374 (1972)
METHANE ..NEUTRON SPECTRA
- 72-IR-01 IRWIN, J.C./ LACOMBE, J.
PHONON DISPERSION IN ZN.SE
CAN. J. PHYS., V.50, P.2596-P.2604 (1972)
ZN.SE ..RAMAN SPECTRA/ MODEL FITTING/ STATE DENSITY/ SPECIFIC HEAT
- 72-IS-01 ISHIBASHI, Y./ TAKAGI, Y.
COMPUTER EXPERIMENT ON LINEAR CHAIN OF ATOMS LYING IN DOUBLE MINIMUM POTENTIAL
J. PHYS. SOC. JAP., V.33, P.1-P.5 (1972)
THEORY-OF-SOLIDS ..COMPUTER EXPERIMENT/ DYNAMICS/ LINEAR CHAIN/ DOUBLE MINIMUM
- 72-IS-02 ISHIBASHI, Y.
FORCE CONSTANTS IN BA.TI.03 AND SR.TI.03
JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON SCATTERING, P.98-P.102 (1972)
BA.TI.03/ SR.TI.03 ..THEORY/ FORCE CONSTANT
- 72-IV-01 IVANOV, M.A./ FISHMAN, A.Y.
INELASTIC SCATTERING OF NEUTRONS IN CRYSTALS CONTAINING LINEAR DEFECTS
PHYS. STATUS SOLIDI B, V.51, P.853-P.861 (1972)
NEUTRON-SCATTERING-IN-SOLIDS/ SCATTERING-BY-DEFECTS ..THEORY/ LINEAR DEFECT
- 72-JA-01 JACOBI, N./ SCHNEPP, O.
- QUANTUM LATTICE DYNAMICS OF MOLECULAR SOLIDS.2.APPLICATI ON TO THE LIBRATIONS OF SOLID C.O₂, ALPHA-N₂ AND ORTHO-H₂
J. CHEM. PHYS., V.57, P.2516 (1972)
C.O₂/ H₂/ N₂ ..THEORY/ LATTICE DYNAMICS ..QUADRAPOL-QUADRUPOL POTENTIAL
- 72-JA-02 JACOBI, N.
QUANTUM LATTICE DYNAMICS OF MOLECULAR SOLIDS.1.GENERAL THEORY
J. CHEM. PHYS., V.57, P.2505 (1972)
THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..TRANSLATIONAL AND LIBRATIONAL MODES
- 72-JA-03 JACROT, B./ KROO, N./ SPRINGER, T.
SUMMARY OF THE SYMPOSIUM ON NEUTRON INELASTIC SCATTERING
G
NEUTRON INELASTIC SCATTERING, IAEA, P.859-P.865 (1972)
REVIEW-ARTICLES ..SUMMARY OF THE SYMPOSIUM
- 72-JA-04 JANIK, J.A./ JANIK, J.M./ OTNES, K./ PYNNE, R.
A STUDY OF THE ANISOTROPY OF SELF-DIFFUSION IN MAGNETICALLY ORIENTED PARA-AZOXYANISOLE
NEUTRON INELASTIC SCATTERING, IAEA, P.515-P.525 (1972)
P-AZOXYANISOLE ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ NEMATIC LIQUID CRYSTAL/ 396-399K/ EXTERNAL MAGNETIC FIELD
- 72-JA-05 JANNINK, G./ SUMMERFIELD, G.C.
CONFORMATIONAL MOTIONS OF POLYMERS
NEUTRON INELASTIC SCATTERING, IAEA, P.277-P.286 (1972)
SCATTERING-THEORIES ..THEORY/ POLYMER CHAINS IN SOLUTION/ DIFFUSIVE MOTION
- 72-JE-01 JEX, H.
ANHARMONIC INTERACTIONS IN GE AND SI
NEUTRON INELASTIC SCATTERING, 1972, IAEA, P.29-P.39 (1972)
GE/ SI ..THEORY/ PHONON/ ANHARMONIC INTERACTION
- 72-JO-01 JOGI, S./ TRIPATHI, B.B./ BEHARI, J.
EFFECT OF ANGULAR FORCES ON THE CRYSTAL DYNAMICS OF SOLIDIFIED XENON
NUOVO CIMENTO, V.10, P.111-P.116 (1972)
XENON ..THEORY/ PHONON DISPERSION AND SPECTRA/ ELASTIC FORCE MODEL
- 72-KA-01 KACHHAVA, C.M.
PHONON FREQUENCIES OF METALLIC LITHIUM

- PHYS. STATUS SOLIDI B, V.54K, P.29-P.32 (1972)
 LI ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL CALCULAT
 ION
- 72-KA-02 KACHHAVA, C.M.
 PHONON FREQUENCIES OF METALLIC LITHIUM
 PHYS. STATUS SOLIDI B, V.54, P.29 (1972)
 LI ..THEORY/ PHONON DISPERSION
- 72-KA-03 KAM, Z./ GILAT, G.
 OPTIMUM-MODEL-POTENTIAL LATTICE DYNAMICS OF BETA-SN
 PHYS. REV. B, V.5, P.2887-P.2896 (1972)
 SN ..THEORY/ PHONON DISPERSION/ STATE DENSITY/ MODEL PO
 TENTIAL
- 72-KA-04 KAMITAKAHARA, W.A./ BROCKHOUSE, B.N.
 NEUTRON SCATTERING BY VIBRATIONS IN A MASS DISORDERED L
 ATTICE, Ni(55 PERCENT) PD(45 PERCENT
 NEUTRON INELASTIC SCATTERING, IAEA, P.73-P.84 (197
 2)
- Ni-PD ..EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MASS EF
 CT
- 72-KA-05 KAMMER, E.W./ CARDINAL, L.C./ VOLD, C.L./ GLICKSMA
 N, M.E.
 THE ELASTIC CONSTANTS FOR SINGLE-CRYSTAL BISMUTH AND TI
 N FROM ROOM TEMPERATURE TO THE MELTING POINT
 J. PHYS. CHEM. SOLIDS, V.33, P.1891-P.1898 (1972)
 BI/ SN ..EXPERIMENT/ ELASTIC CONSTANT
- 72-KA-06 KANAMORI, J.
 COOPERATIVE YAHN-TELLER EFFECT (IN JAPANESE)
 JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON
 SCATTERING, P.106-P.107 (1972)
 THEORY-OF-SOLIDS ..JAHN-TELLER EFFECT/ PHONON
- 72-KA-07 KAPULLA, H.
 UNTERSUCHUNG DER MOLEKUELROTATION IM FESTEN METHAN DURC
 H INELASTISCHE NEUTRONENSTREUUNG
 KFK-1489 (1972)
 C.H4 ..EXPERIMENT/ SOLID/ ROTATING CRYSTAL SPECTROMETER
 / SIGMA (E, E-PRIME, THETA)
- 72-KA-08 KAPULLA, H./ GLAESER, W.
 MOLECULAR ROTATIONS IN THE LOW-TEMPERATURE PHASE OF SOL
 ID METHANE
 NEUTRON INELASTIC SCATTERING, IAEA, P.841-P.849 (1
 972)
 METHANE ..EXPERIMENT/ SOLID METHANE/ SMALL ENERGY PEAKS
- 72-KA-09 KATZ, I./ RICE, S.A.
- ON THE CALCULATION OF THE DENSITY OF LOCALIZED STATES IN
 A DENSE FLUID
 J. PHYS., C, LONDON, V.5, P.1165-P.1182 (1972)
 THEORY-OF-FLUIDS ..DENSITY OF LOCALIZED STATE/ FLUID
- 72-KE-01 KERR, W.C./ PATAAK, K.N./ SINGWI, K.S.
 ADDENDUM TO NEUTRON SCATTERING FROM LIQUID HELIUM II AT
 LARGE MOMENTUM TRANSFER AND THE CONDENSATE FRACTION
 PHYS. REV. A, V.4, P.2414 (1972)
 HE ..THEORY
- 72-KE-02 KESHARWANI, K.M./ AGRAWAL, B.K.
 FREQUENCIES AND WIDTHS OF PHONONS IN DILUTE CR-W ALLOYS
 PHYS. REV. B, V.6, P.2178-P.2192 (1972)
 CR-W ..THEORY/ DILUTE ALLOY/ PHONON DISPERSION AND WIDT
 HS/ MASS AND FORCE CONSTANT CHANGE
- 72-KE-03 KESHARWANI, K.M./ AGRAWAL, B.K.
 PHONON FREQUENCIES IN CR-1.6AT.PERCENT W ALLOY
 SOLID STATE COMMUN., V.11, P.771-P.774 (1972)
 CR-W ..EXPERIMENT/ PHONON/ ALLOY/ IMPURITY EFFECT
- 72-KI-01 KIM, C.H./ RAFIZADEH, H.A./ YIP, S.
 LATTICE VIBRATIONS IN AMMONIUM CHLORIDE IN THE LOW-TEMP
 ERATURE ORDERED PHASE
 J. CHEM. PHYS., V.57, P.2291-P.2298 (1972)
 N.H4.CL ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM
 / RIDID-MOLECULAR MODEL/ ORDERD PHASE
- 72-KI-02 KITCHENS, T.A./ SHIRANE, G./ MINKIEWICZ, V.J./ OS
 OOD, E.B.
 SINGLE PARTICLE EXCITATIONS IN SOLID HELIUM
 BNL-17101 (1972)
 HE ..EXPERIMENT/ SOLID HE/ SINGLE PARTICLE EXITATIONS
- 72-KO-01 KOEHLER, T.R./ WERTHAMER, N.R.
 COMPUTATION OF PHONON SPECTRAL FUNCTIONS AND GROUND-STA
 TE ENERGY OF SOLID HELIUM, I. BCC PHASE
 PHYS. REV. A, V.5, P.2230-P.2237 (1972)
 HE ..THEORY/ DISPERSION RELATION
- 72-KO-02 KOLLMAR, A.
 QUASIELASTIC SCATTERING OF NEUTRONS FOR INVESTIGATION O
 F UNPERIODICAL ATOMIC MOTIONS IN LIQUID SELENIUM
 JUL-829-FF (1972)
 SE ..EXPERIMENT/ QUASIELASTIC SCATTERING/ LIQUID STATE
- 72-KO-03 KOTHARI, L.S./ SINGHAL, U.
 LATTICE DYNAMICS OF SODIUM - COMPARISON OF DE LAUNAY AN
 D CGW MODELS
 J. PHYS., C, LONDON, V.5, P.293 (1972)
 NA ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATI

ON ..ANGULAR FORCE

72-KR-01 KRESS, W.
LATTICE DYNAMICS OF HIGHLY POLARIZABLE HOMOPOLAR CRYSTALS WITH DIAMOND STRUCTURE
LS
PHYS. STATUS SOLIDI B, V.49, P.235-P.245 (1972)
GE/ SN ..THEORY/ PHONON DISPERSION/ MODIFIED SHELL MODEL

72-KU-01 KUEHNER, D./ WAGNER, M.
LATTICE DYNAMICS FROM VIBRONIC SPECTRA. EXAMINATION OF A GENERALIZED SHELL MODEL FOR SR.F2 AND BA.F2
Z. PHYS., V.256, P.22-P.42 (1972)
SR.F2/ BA.F2 ..THEORY/ PHONON DISPERSION/ GENERALIZED SHELL MODEL/ VIBRONIC SPECTRA

72-KU-02 KUGLER, A.A.
SELF-MOTION RESPONSE AND INCOHERENT SCATTERING FUNCTION IN CLASSICAL LIQUIDS
J. PHYS. CHEM. LIQUIDS, V.3, P.205-P.223 (1972)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/CLASSICAL LIQUID/ INCOHERENT

72-KU-03 KUMAR, A./ SHARAN, B.
LATTICE DYNAMICS AND THE HEAT CAPACITY OF INDIUM
J. PHYS., C, LONDON, V.5, P.3161-P.3163 (1972)
IN ..THEORY/ PHONON DISPERSION/ DEBYE TEMPERATURE

72-KU-04 KUSHWAHA, S.S./ KUMAR, A.
NONCENTRAL-FORCE MODEL FOR TRANSITION H.C.P. METALS
NUOVO CIM., B, V.11, P.301-P.312 (1972)
TI/ HF/ Y ..THEORY/ PHONON DISPERSION/ H.C.P. TRANSITION METAL

72-LA-01 LADO, F.
NUMERICAL CALCULATION OF THE DENSITY AUTOCORRELATION FUNCTION FOR LIQUID ARGON
PHYS. REV. A, V.5, P.2238-P.2244 (1972)
AR ..THEORY/ DENSITY AUTOCORRELATION FUNCTION

72-LA-02 LAL, H.H./ VERMA, M.P.
LATTICE DYNAMICS OF RUBIDIUM HALIDES
J. PHYS., C, LONDON, V.5, P.543-P.548 (1972)
RB.F/ RB.CL/ RB.BR/ RB.I ..THEORY/ PHONON DISPERSION/ SHELL MODEL

72-LA-03 LAL, H.H./ VERMA, M.P.
LATTICE DYNAMICS OF CS.CL, CS.BR AND CS.I
J. PHYS., C, LONDON, V.5, P.1038-P.1045 (1972)
CS.CL/ CS.BR/ CS.I ..CALCULATION/ PHONON DISPERSION/ THREE BODY FORCE SHELL MODEL

72-LE-01 LEADBETTER, A.J./ LITCHINSKY, D./ TURNBULL, A.
ROTATIONAL MOTIONS IN THE PLASTIC CRYSTAL PHASES OF C6, F12, C6.F11.H AND C6.F9.H3
NEUTRON INELASTIC SCATTERING, IAEA, P.231-P.243 (1972)
FLUORINATED CYCLOHEXANE ..EXPERIMENT/ MOLECULAR ROTATION/ QUASI-ELASTIC SCATTERING

72-LE-02 LEADBETTER, A.J./ STRINGFELLOW, M.W.
THE FREQUENCY SPECTRUM OF THE NORMAL MODES OF VIBRATION OF VITREOUS SILICA AND ALPHA QUARTZ
NEUTRON INELASTIC SCATTERING, IAEA, P.501-P.513 (1972)
SI.O2 ..EXPERIMENT/ VITREOUS SILICA/ ALPHA QUARTZ/ PHONON SPECTRA

72-LE-03 LEE, Y./ JONAS, J.
DENSITY EFFECTS ON THE DYNAMIC STRUCTURE OF LIQUID DEUTERIUM OXIDE
J. CHEM. PHYS., V.57, P.4233-P.4240 (1972)
D2.O ..VISCOSITY/ DENSITY

72-LE-04 LEFEVRE, Y./ CHEN, S.H./ YIP, S.
TRANSLATIONAL LINE NARROWING IN PRESSURIZED HYDROGEN GAS
NEUTRON INELASTIC SCATTERING, IAEA, P.445-P.459 (1972)
H ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ PRESSURE DEPENDENCE/ KINETIC THEORY ANALYSIS

72-LI-01 LITZMAN, O./ BARTUSEK, M./ ZAVADIL, V.
LATTICE DYNAMICS OF A CRYSTAL CONTAINING A POINT DEFECT WITH A LONG RANGE INTERACTION
J. PHYS., C, LONDON, V.5, P.287-P.292 (1972)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ DEFECT/ LONG RANGE INTERACTION/ GREEN FUNCTION

72-LO-01 LOVESEY, S.W.
THEORY OF THE MAGNON AND PHONON INTERACTION IN FE-F2
J. PHYS., C, LONDON, V.5, P.2769 (1972)
FE.F2 ..THEORY

72-MA-01 MARSH, D.I./ MARTIN, D.H.
LATTICE VIBRATION OF POLYETHYLENE
J. PHYS., C, LONDON, V.5, P.2309-P.2316 (1972)
POLYETHYLENE ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ PROPAGATING TRANSVERSELY TO CHAIN AXIS

72-MA-02 MARTIN, P.C./ PARODI, O./ PERSHAN, P.S.
UNIFIED HYDRODYNAMIC THEORY FOR CRYSTALS, LIQUID CRYSTALS, AND NORMAL FLUID
PHYS. REV. A, V.6, P.2401 (1972)

- THEORY-OF-FLUIDS ..THEORY/ SCATTERING LAW ..HYDRODYNAMICS AND THERMODYNAMICS
- 72-MA-03 MAZENKO, G.F.
PROPERTIES OF THE LOW-DENSITY MEMORY FUNCTION
PHYS. REV. A, V.5, P.2545 (1972)
THEORY-OF-FLUIDS ..MEMORY FUNCTION
- 72-MA-04 MAZENKO, G.F./ WEI, Y.C./ YIP, S.
THERMAL FLUCTUATIONS IN A HARD-SHRE GAS
PHYS. REV. A, V.6, P.1981-P.1995 (1972)
THEORY-OF-FLUIDS ..THEORY/ DENSITY FLUCTUATION/ DILUTE GAS/ HARD SPHERE/ KINETIC EQUATION
- 72-MC-01 MCDOWELL, R.S./ ASPHEY, L.B./ HOSKINS, L.C.
VIBRATIONAL SPECTRUM AND FORCE FIELD OF RUTHENIUM TETROXIDE
J. CHEM. PHYS., V.56, P.5712-P.5721 (1972)
RU.04 ..EXPERIMENT ..INFRARED AND RAMAN SPECTRA/ VAPOR AND LIQUID PHASE/ ANHARMONICITY/ CORIOLIS CONSTANTS
- 72-MC-02 MCDOWELL, R.S./ ASPHEY, L.B.
VIBRATIONAL SPECTRUM AND FORCE FIELD OF XENON TETROXIDE
J. CHEM. PHYS., V.57, P.3062 (1972)
XE.04 ..EXPERIMENT ..VAPOR/ FREQUENCY SHIFT AND ANHARMONICITY CORRECTIONS/ INFRARED AND RAMAN SPECTRA
- 72-ME-01 MELCHER, R.H./ SCOTT, B.A.
SOFT ACOUSTIC MODE AT THE COOPERATIVE JAHN-TELLER PHASE TRANSITION IN DY.V.04
PHYS. REV. LETT., V.28, P.607-P.610 (1972)
DY.V.04 ..EXPERIMENT/ ELASTIC CONSTANT/ SOFT MODE/ MEAN FIELD THEORY/ CRITICAL FLUCTUATION
- 72-ME-02 MENON, C.S./ RAO, R.R.
LATTICE DYNAMICS AND SOE CONSTANTS OF TERBIUM USING KEATING'S APPROACH
SOLID STATE COMMUN., V.10, P.179 (1972)
TE ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
- 72-ME-03 MENON, C.S./ RAO, R.R.
LATTICE DYNAMICS AND THE SOE CONSTANTS OF THALLIUM AT 7 AND 296K
SOLID STATE COMMUN., V.10, P.701-P.704 (1972)
TL ..THEORY/ PHONON DISPERSION/ SECOND ORDER ELASTIC CONSTANT
- 72-ME-04 MENON, C.S./ RAO, R.R.
LATTICE DYNAMICS, THIRD ORDER ELASTIC CONSTANTS AND THE THERMAL EXPANSION OF CADMIUM
J. PHYS. CHEM. SOLIDS, V.33, P.2129-P.2139 (1972)
- CD ..THEORY/ SOE/ THERMAL EXPANSION/ GRUNEISEN CONSTANT
- 72-ME-05 MENON, C.S./ RAO, R.R.
LATTICE DYNAMICS AND ELASTIC CONSTANTS OF HOLMIUM AND YTRITIUM
PHYS. STATUS SOLIDI B, V.49, P.843-P.855 (1972)
HO/ Y ..THEORY/ PHONON DISPERSION/ HEXAGONAL METAL
- 72-MI-01 MIKULI, E./ JANIK, J.M./ PYTASZ, G./ JANIK, J.A./ SCIESINSKI, J./
LOW FREQUENCY MOTIONS OF WATER MOLECULES IN CRYSTALLINE LI2.S.04*H2.O
INP-791/PS (1972)
LI2.S.04*H2.O ..EXPERIMENT/ FREQUENCY SPECTRUM
- 72-MI-02 MITRA, S.K.
VELOCITY AUTOCORRELATION IN LIQUID SODIUM
PHYS. LETT., A, V.38, P.471 (1972)
SODIUM ..VELOCITY AUTOCORRELATION
- 72-MI-03 MITRA, S.K./ DASS, N./ VORSHNEYA, N.C.
MEMORY FUNCTION OF VELOCITY AUTOCORRELATION OF CLASSICAL LIQUIDS
PHYS. REV. A, V.6, P.1214-P.1217 (1972)
THEORY-OF-FLUIDS ..THEORY/ LIQUID/ VELOCITY AUTOCORRELATION/ MEMORY FUNCTION
- 72-MO-01 MOOK, H.A./ SCHERM, R./ WILKINSON, M.K.
NEUTRON SCATTERING INVESTIGATION OF BOSE-EINSTEIN CONDENSATION IN SUPERFLUID HE-4
CONF-720833-10 (1972)
HE ..EXPERIMENT/ HIGH ENERGY NEUTRON SCATTERING
- 72-MO-02 MOSTOLLER, M.
PHONON SPECTRA OF SOME TRANSITION METAL CARBIDES FROM A SIMPLE PSEUDOPOTENTIAL APPROACH
PHYS. REV. B, V.5, P.1260-P.1265 (1972)
U.C/ HF.C/ TA.C/ NB.C ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL APPROACH
- 72-MU-01 MUHLESTEIN, L.D./ GUERMAN, E./ CUNNINGHAM, R.M.
INVESTIGATION OF THE PHONON DISPERSION RELATIONS OF PARAMAGNETIC AND ANTIFERROMAGNETIC CHROMIUM
NEUTRON INELASTIC SCATTERING, 1972, IAEA, P.53-P.59 (1972)
CR ..EXPERIMENT/ PHONON DISPERSION/ 300DK TO 503DK
- 72-NA-01 NAKAHARA, Y./ KADOTANI, H.
A COMPUTATIONAL METHOD OF THERMAL NEUTRON SCATTERING KERNELS FOR HIGH TEMPERATURE CRYSTALS
JAERI-1220 (1972)

- ZR-H/ COMPUTER-CODES ..THEORY/ SIGMA (E-E-PRIME)/ SIGMA (E)/ SIGMA-TRANSPORT(E)/ SOLID ..HIGH TEMPERATURE
- 72-NA-02 NAKAMURA, M./ YONEZAWA, F.
A SYSTEMATIC APPROACH TO THE PROBLEMS OF RANDOM LATTICE S. 2 - A DOUBLE-SITE APPROXIMATION AND AN APPLICATION TO THE CALCULATION OF FREQUENCY SPECTRA OF DISORDERED SYSTEMS
PROGR. THEORET. PHYS., KYOTO, V.47, P.1124-P.1139 (1972)
- THEORY-OF-SOLIDS ..THEORY/ DISORDERED SYSTEM/ PHONON FREQUENCY SPECTRA
- 72-NA-03 NAKAYAMA, T./ ODAJIMA, A.
A MODIFIED VALENCE FORCE FIELD APPROACH TO LATTICE DYNAMICS OF TRIGONAL SELENIUM
J. PHYS. SOC. JAP., V.33, P.12-P.20 (1972)
- SE ..THEORY/ VALENCE-FIELD/ ELASTIC CONSTANT
- 72-NA-04 NAMAIZAWA, H.
DYNAMICAL THEORY OF QUANTUM SOLIDS - PHONON DISPERSION RELATION
PROGR. THEORET. PHYS., KYOTO, V.48, P.709-P.723 (1972)
- THEORY-OF-SOLIDS ..THEORY/ QUANTUM LATTICE DYNAMICS/ PHONON DISPERSION
- 72-NA-05 NARTEN, A.
LIQUID WATER; ATOM PAIR CORRELATION FUNCTIONS FROM NEUTRON AND X-RAY DIFFRACTION
J. CHEM. PHYS., V.56, P.5681 (1972)
- H2.O/ D2.O ..PAIR CORRELATION/ EXPERIMENT
- 72-NA-06 NATHANS, R.
THERMAL NEUTRON SCATTERING ON MAGNETIC MATERIALS AND LIQUIDS
TID-26355, P.8 (1972)
- MISCELLANEOUS
- 72-NE-01 NELIN, G./ NILSSON, G.
PHONON DENSITY OF STATES IN GERMANIUM AT 80K MEASURED BY NEUTRON SPECTROMETRY
PHYS. REV. B, V.5, P.3151-P.3160 (1972)
- GE ..EXPERIMENT/ CALCULATION/ PHONON DENSITY
- 72-NI-01 NICKLOW, R./ WAKABAYASHI, N./ SMITH, H.G.
LATTICE DYNAMICS OF PYROLYTIC GRAPHITE
PHYS. REV. B, V.5, P.4951 (1972)
- GRAPHITE ..PHONON DISPERSION
- 72-NI-02 NIELSEN, M./ CARNEIRO, K.
LATTICE DYNAMICS OF SOLID HYDROGEN
- NEUTRON INELASTIC SCATTERING, IAEA, P.111-P.117 (1972)
- H ..EXPERIMENT/ PHONON DISPERSION/ SOLID PARAHYDROGEN
- 72-NI-03 NILSSON, G./ NELIN, G.
STUDY OF THE HOMOLOGY BETWEEN SILICON AND GERMANIUM BY THERMAL-NEUTRON SPECTROMETRY
PHYS. REV. B, V.6, P.3777 (1972)
- GE/ SI ..LATTICE DYNAMICS/ NEUTRON SPECTROSCOPY
- 72-OS-01 OSGOOD, E.B./ MINKIEWICZ, V.J./ KITCHENS, T.A./ SHIRANE, G.
INELASTIC-NEUTRON SCATTERING FROM BCC HE-4
PHYS. REV. A, V.5, P.1537-P.1547 (1972)
- HE ..EXPERIMENT/ PHONON DISPERSION
- 72-PA-01 PAGE, D.I.
THE STRUCTURE FACTOR FOR LIQUID ARGON AT 84.5DK
AERE-R-6828 (1972)
- AR ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR/ NEUTRON DIFFRACTION/ 84.5DK
- 72-PA-02 PANDEY, R.N./ DAYAL, B.
PHONON DISPERSION-RELATIONS IN RUBIDIUM CHLORIDE ON THE BASIS OF SHELL MODEL
SOLID STATE COMMUN., V.11, P.185-P.188 (1972)
- RB.CL ..THEORY/ PHONON DISPERSION/ SHELL MODEL
- 72-PA-03 PANDY, B.P./ DAYAL, B.
LATTICE DYNAMICS OF GERMANIUM BY THE C.G.W. TYPE OF ANGULAR FORCE MODEL
SOLID STATE COMMUN., V.11, P.775-P.777 (1972)
- GE ..THEORY/ LATTICE/ DYNAMICS/ DISPERSION RELATION
- 72-PA-04 PASZKIEWICZ, T.
SELF-CONSISTENT THEORY OF SECOND ORDER ELASTIC CONSTANT S FOR NONIONIC ANHARMONIC CRYSTALS
JINR-E4-6444 (1972)
- THEORY-OF-SOLIDS ..THEORY/ SOLID/ ANHARMONICITY ..ELASTIC CONSTANTS
- 72-PA-05 PAWLEY, G.S.
DYNAMICS OF MOLECULAR CRYSTALS
NEUTRON INELASTIC SCATTERING, IAEA, P.175-P.192 (1972)
- REVIEW-ARTICLES ..MOLECULAR CRYSTAL/ DYNAMICS
- 72-PA-06 PAWLEY, G.S.
ANALYTIC FORMULATION OF MOLECULAR LATTICE DYNAMICS BASED ON PAIR POTENTIAL FUNCTIONS
PHYS. STATUS SOLIDI B, V.49, P.475-P.488 (1972)
- THEORY-OF-SOLIDS ..THEORY/ MOLECULAR LATTICE DYNAMICS/

- ANALYTIC FORMULATION/ PAIR POTENTIAL
- 72-PL-01 PLAKIDA, N.M.
 INTERFERENCE IN NEUTRON SCATTERING IN ANHARMONIC CRYSTALS
 LS
 FIZ, TVERD, TELA (SOV. PHYS.-SOLID STATE), V.14 (V.14), P.2841-P.2848 (P.2462-P.2467) (1972 (1973))
 NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONIC CRYSTAL/ ONE PHONON COHERENT CROSS SECTION
- 72-PO-01 POLLOCK, E.L.
 APPROXIMATE PHONON FREQUENCY DISTRIBUTIONS FOR FCC LENNARD-JONES HARMONIC CRYSTALS
 COO-3161-3 (1972)
 AR ..THEORY/ LENNARD-JONES HARMONIC CRYSTALS
- 72-PO-02 POWELL, B.M./ WOODS, A.D.B./ MARTEL, P.
 TEMPERATURE DEPENDENCE OF THE NORMAL MODES OF NIOBIUM NEUTRON INELASTIC SCATTERING, 1972, IAEA, P.43-P.51 (1972)
 NB ..EXPERIMENT/ PHONON DISPERSION/ 296 TO 1050K
- 72-PO-03 POWELL, B.M./ DOLLING, G./ FISERI, L./ MARTEL, P.
 NORMAL MODES OF SOLID CARBON DIOXIDE NEUTRON INELASTIC SCATTERING, IAEA, P.207-P.217 (1972)
 C.02 ..EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
- 72-PO-04 POWLES, J.G./ DORE, J.C./ PAGE, D.I.
 COHERENT NEUTRON SCATTERING BY LIGHT WATER (H2,O) AND A LIGHT-HEAVY WATER MIXTURE (64 PER CENT H2,O/36 PER CENT D2,O)
 MOL, PHYS., V.24, P.1025-P.1037 (1972)
 H2,O/ D2,O ..EXPERIMENT/ STRUCTURE FACTOR/ H2,O-D2,O MIXTURE/ ISOTOPIC SUBSTITUTION
- 72-PR-01 PRAKASH, S./ JOSHI, S.K.
 LATTICE DYNAMICS OF NOBLE METALS-APPLICATION TO COPPER
 PHYS. REV. B, V.5, P.2880-P.2887 (1972)
 CU ..THEORY/ DISPERSION RELATION
- 72-PR-02 PRASAD, B./ SRIVASTAVA, R.S.
 LATTICE VIBRATIONS OF ALUMINUM; A MODEL POTENTIAL APPROXIMATION
 PHYS. LETT., A, V.38A, P.527 (1972)
 AL ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE ..METAL/ TWO PARAMETER MODEL POTENTIAL
- 72-PR-03 PRASAD, B./ SRIVASTAVA, R.S.
 CRYSTAL DYNAMICS OF LITHIUM BASED ON THE PSEUDOPOTENTIAL
- L TECHNIQUE
 PHYS. REV. B, V.6, P.2192 (1972)
 LI ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL
- 72-PR-04 PRASK, H.J./ TREVINO, S.F./ GAULT, J.D./ LOGAN, K.
 ICE I - LATTICE DYNAMICS AND INCOHERENT NEUTRON SCATTERING
 J. CHEM. PHYS., V.56, P.3217 (1972)
 H2,O/ D2,O ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY RELATION/ DISPERSION RELATION/ TOF/ INCOHERENT APPROXIMATION/ SOLID ..ROOT MEAN SQUARE DISPLACEMENTS/ ICE/ SPECIFIC HEAT
- 72-PR-05 PREVENDER, T.S./ SINHA, S.K./ SMITH, J.F.
 LATTICE DYNAMICS OF Y-ZN
 PHYS. REV. B, V.6, P.4438-P.4445 (1972)
 Y-ZN ..EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MODEL ANALYSIS/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATURE
- 72-PU-01 PUSTOVOIT, V.I.
 HARD PHOTON AND SLOW NEUTRON SCATTERING IN SEMICONDUCTOR CRYSTALS UNDER CONDITIONS OF SOUND INSTABILITY
 ZH, EKSP. TEOR. FIZ. (SOV. PHYS.-JETP), V.62 (V.35), P.754-P.761 (P.399-P.402) (1972 (1972))
 THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS ..SEMICONDUCTOR/ SOUND-INSTABILITY CONDITION/ X-RAY, GAMMA-RAY AND NEUTRON SCATTERING
- 72-PY-01 PYNM, R./ SQUIRES, G.L.
 MEASUREMENTS OF THE NORMAL-MODE FREQUENCIES OF MAGNESIUM
 PROC. ROY. SOC., LONDON, SER. A, V.326, P.347-P.360 (1972)
 MG ..EXPERIMENT/ PHONON DISPERSION/ PHONON DENSITY/ DEBYE TEMP.
- 72-PY-02 PYNM, R./ OTNES, K./ RISTE, T.
 COHERENT NEUTRON SCATTERING BY A NEMATIC LIQUID CRYSTAL
 SOLID STATE COMMUN., V.11, P.1365-P.1367 (1972)
 P-AZOXYANISOLE ..EXPERIMENT/ NEUTRON DIFFRACTION/ PHASE DIAGRAM
- 72-QU-01 QUILICHINI, M./ POULET, H.
 THE ANOMALOUS BEHAVIOR OF PHONON HEAR THE 60DC PHASE TRANSITION IN LEAD DICALCIUM PROPIONATE
 SOLID STATE COMMUN., V.10, P.239 (1972)
 DICALCIUM LEAD PROPIONATE ..EXPERIMENT/ FREQUENCY DISTRIBUTION FUNCTION ..PHASE TRANSITION
- 72-RA-01 RAE, A.I.M.

- THE LATTICE DYNAMICS OF H.C.N
 J. PHYS., C, LONDON, V.5, P.3309-P.3321 (1972)
 H.C.N ..CALCULATION/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ PHASE CHANGE/ SOFT PHONON
- 72-RA-02 RAFIZADEH, H.A./ YIP, S./ PRASK, H.
 LATTICE DYNAMICS OF RHOMBOHEDRAL SODIUM AZIDE
 J. CHEM. PHYS., V.56, P.5377-P.5392 (1972)
 NA,N3 ..EXPERIMENT/ THEORY/ TIME OF FLIGHT/ DISPERSION RELATION/ FREQUENCY/ DISTRIBUTION
- 72-RA-03 RAINFORD, B.D./ HOUMANN, J.G./ GUGGENHEIM, H.J.
 MAGNONS AND THE MAGNON-PHONON INTERACTION IN FE.F2
 NEUTRON INELASTIC SCATTERING, IAEA, P.655-P.667 (1972)
 FE.F2 ..EXPERIMENT/ PHONON AND MAGNON DISPERSION/ MAGNON N-PHONON INTERACTION
- 72-RA-04 RAJPUT, J.S./ KUSHWAHA, S.S.
 PHONON DISPERSION RELATIONS FOR ZINC
 PHYS. LETT., V.38A, P.497 (1972)
 ZN ..THEORY/ PHONON DISPERSION
- 72-RA-05 RAM, P.N./ AGRAWAL, B.K.
 IMPURITY MODES AND EFFECTIVE FORCE CONSTANT IN CS.CL
 PHYS. REV. B, V.5, P.2335-P.2337 (1972)
 CS.CL ..THEORY/ LOCALIZED MODE/ GAP MODE/ H, D, K IMPURITIES
- 72-RA-06 RAO, R.R./ MENON, C.S.
 PHONON DISPERSION RELATIONS AND ELASTIC CONSTANTS OF H.C.P. HELIUM AT MOLAR VOLUME OF 16 CC
 SOLID STATE COMMUN., V.11, P.1193 (1972)
 HELIUM ..DISPERSION-RELATION
- 72-RE-01 RESIBOIS, P.
 REMARKS ON THE KINETIC ENERGY DENSITY FLUCTUATIONS IN CLASSICAL LIQUIDS
 PHYSICA, V.59, P.587-P.591 (1972)
 THEORY-OF-FLUIDS ..CLASSICAL LIQUID/ THEORY
- 72-RE-02 REYNOLDS, P.A./ KJEMS, J.K./ WHITE, J.W.
 HIGH-RESOLUTION INELASTIC NEUTRON SCATTERING FROM SOME AROMATIC MOLECULAR POLYCRYSTALS FOR STUDY OF CRYSTAL EXCITATIONS AND ANHARMONIC EFFECTS
 J. CHEM. PHYS., V.56, P.2928-P.2943 (1972)
 C6.H4.CL2/ C6.H4.BR2 ..NEUTRON SPECTRUM/ THEORY/ EXPERIMENT/ INELASTIC NEUTRON SCATTERING ..ANHARMONICITY
- 72-RE-03 REYNOLDS, P.A./ KJEMS, J.K./ WHITE, J.W.
 EXPERIMENTAL LATTICE VIBRATIONAL DISPERSION CURVES FOR BETA-PHASE P-C6.D4.CL2 AT 295K AND 90K, AND ACOUSTIC VELOCITIES FOR BETA-PHASE P-C6.H4.CL2 AT 295K COMPARED WITH A GENERAL CRYSTAL POTENTIAL FOR THE CHLOROBENZENES
 NEUTRON INELASTIC SCATTERING, IAEA, P.195-P.206 (1972)
 C6.H4.CL2 ..EXPERIMENT/ PHONON DISPERSION/ TRICLINIC PHASE/ 295K TO 90K
- 72-RE-04 REYNOLDS, P.A./ WHITE, J.W.
 INELASTIC NEUTRON SCATTERING SPECTRUM OF P-TERPHENYL
 J. C. S. FARADAY TRANS. 2, V.68, P.1434-P.1438 (1972)
 TERPHENYL ..EXPERIMENT/ NEUTRON SPECTROSCOPY/ MOLECULAR VIBRATION
- 72-RO-01 RODRIGUES, C./ VINHAS, L.A./ HERPADE, S.B./ DO-AMARAL, L.O.
 SLOW-NEUTRON SCATTERING CROSS-SECTION FOR METHANOL, ETHANOL, PROPANOL, ISO-PROPANOL, BUTANOL, ETHANEDIOL AND PROPANETRIOL
 J. NUCL. ENERGY, V.26, P.379-P.383 (1972)
 METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGMA/ LIQUID
- 72-RO-02 RODRIGUEZ, C./ DO-AMARAL, L.O./ VINHAS, L.A./ HERPADE, S.B.
 PROTON MOTIONS IN METHANOL BY COLD NEUTRON SCATTERING
 J. CHEM. PHYS., V.56, P.3118-P.3121 (1972)
 METHANOL ..EXPERIMENT/ QUASIELASTIC SCATTERING/ MOLECULAR MOTION/ DIFFUSION
- 72-RO-03 ROWE, J.M./ SKOELD, K.
 THE COHERENT SCATTERING FUNCTION OF LIQUID ARGON AT 85, 2DK
 NEUTRON INELASTIC SCATTERING, IAEA, P.413-P.429 (1972)
 AR ..EXPERIMENT/ LIQUID/ 85,2K/ SCATTERING FUNCTION
- 72-RO-04 ROWE, J.M.
 A NEUTRON SCATTERING STUDY OF THE VIBRATIONAL AND DIFFUSIONAL MOTIONS OF DEUTERIUM IN THE ALPHA AND BETA PHASES OF V.D0.5
 SOLID STATE COMMUN., V.11, P.1299-P.1302 (1972)
 V-H ..EXPERIMENT/ PHONON SPECTRA/ 300K,425K
- 72-RO-05 ROWE, J.M./ RUSH, J.J./ DE-GRAAF, L.A./ FERGUSON, G.A.
 NEUTRON QUASIELASTIC SCATTERING STUDY OF HYDROGEN DIFFUSION IN A SINGLE CRYSTAL OF PALLADIUM
 PHYS. REV. LETT., V.29, P.1250 (1972)
 PD-H ..QUASIELASTIC SCATTERING/ HYDROGEN DIFFUSION
- 72-RU-01 RUSH, J.J./ SCHROEDER, L.W./ MELVEGER, A.J.

- DYNAMICS OF SODIUM AND POTASSIUM BIFLUORIDE. INFRARED, RAMAN, AND NEUTRON STUDIES
 J. CHEM. PHYS., V.56, P.2793 (1972)
 K.H.F2/ NA.H.F2 ..NEUTRON SPECTROSCOPY/ RAMAN, INFRARED SPECTROSCOPY
- 72-RU-02 RUVALDS, J./ TUETTO, I./ ZAWADOWSKI, A.
 BOUND PHONON PAIRS IN SOLIDS
 KFKI-72-22 (1972)
 THEORY-OF-SOLIDS ..THEORY/ RESONANCE STATE OF TWO PHONONS
- 72-SA-01 SAKAMOTO, M./ IIZUMI, M./ MOTOHASHI, H.
 ENERGY DISTRIBUTIONS OF NEUTRONS SCATTERED FROM K.H.F2, (N.H4)2.S.O4 AND POLYETHYLENE BY NEUTRON ENERGY-LOSS METHOD
 JAERI-M-5033 (1972)
 K.H.F2/ (N.H4)2.S.O4/ POLYETHYLENE ..EXPERIMENT/ BE-FILTER-DETECTOR/ MOLECULAR DYNAMICS
- 72-SC-01 SCHOMMERS, W.
 MOLECULAR-DYNAMICS CALCULATIONS FOR RUBIDIUM
 KFK-1413 (1972)
 RB ..SCATTERING LAW/ FLUID STATE/ STRUCTURE FACTOR
- 72-SE-01 SEARS, V.F.
 INCOHERENT NEUTRON SCATTERING BY SIMPLE LIQUIDS FOR LARGE MOMENTUM TRANSFER
 PHYS. REV. A, V.5, P.452 (1972)
 NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERING FUNCTION/ SCATTERING THEORY
- 72-SF-02 SEARS, V.F.
 NEUTRON SCATTERING IN SOLID HE-4 AT LARGE MOMENTUM TRANSFER
 SOLID STATE COMMUN., V.11, P.1307-P.1310 (1972)
 HELIUM ..ANHARMONICITY/ FREQUENCY-SPECTRUM
- 72-SH-01 SHAM, L.J.
 MICROSCOPIC THEORY OF LATTICE DYNAMICS IN CONDUCTING CRYSTALS
 PHYS. REV. B, V.6, P.3581 (1972)
 THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ ELASTIC CONSTANT ..METAL
- 72-SH-02 SHAM, L.J.
 THEORY OF LATTICE DYNAMICS OF NB3.SN TYPE COMPOUNDS
 PHYS. REV. B, V.6, P.3584 (1972)
 NB3.SN/ THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS
- 72-SH-03 SHAPIRO, S.M./ AXE, J.D./ SHIRANE, G./ RISTE, T.
 CRITICAL NEUTRON SCATTERING IN SR.TI.O3 AND K.MN.F3
 PHYS. REV. B, V.6, P.4332-P.4341 (1972)
 SR.TI.O3/ K.MN.F3 ..EXPERIMENT/ CRITICAL SCATTERING/ PHASE TRANSITION
- 72-SH-04 SHAWYER, R.E./ DEAN, P.
 ATOMIC VIBRATIONS IN ORIENTATIONALLY DISORDERED SYSTEMS
 ..II. HEXAGONAL ICE
 J. PHYS., C, LONDON, V.5, P.1028 (1972)
 H2.O/ D2.O ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..ICE/ DISORDERED SYSTEM
- 72-SH-05 SHAWYER, R.E./ DEAN, P.
 ATOMIC VIBRATIONS IN ORIENTATIONALLY DISORDERED SYSTEMS
 ..I. A TWO DIMENSIONAL MODEL
 J. PHYS., C, LONDON, V.5, P.1017 (1972)
 THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY SPECTRUM/ BORN-VON KARMAN MODEL ..DISORDERED SYSTEM
- 72-SH-06 SHUKLA, M.M./ DA-CUNHA-LIMA, I.C./ BRESCANSIN, L.M.
 A MODEL FOR LATTICE DYNAMICS OF B.C.C. METALS
 SOLID STATE COMMUN., V.11, P.1431 (1972)
 NA ..THEORY/ PHONON DISPERSION
- 72-SI-01 SILBERGLITT, R.
 MICROSCOPIC CALCULATION OF THE RESPONSE FUNCTION OF THE SOFT ZONE BOUNDARY PHONON IN SR.TI.O3,
 SOLID STATE COMMUN., V.11, P.247 (1972)
 SR.TI.O3 ..THEORY/ SOFT MODE
- 72-SI-02 SINGH, S.N./ PRAKASH, S.
 PHONON DISPERSION IN ALKALI METALS. 2
 PHYSICA, V.58, P.71-P.76 (1972)
 LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE
- 72-SI-03 SINGH, S.N./ PRAKASH, S.
 PHONON DISPERSION IN ALKALI METALS. 2
 PHYSICA, V.58, P.71-P.76 (1972)
 LI/ NA/ K/ RB/ CS ..THEORY/ PHONON DISPERSION
- 72-SI-04 SINGH, K./ SRIVASTAVA, R.S.
 LATTICE DYNAMICAL CALCULATION OF THERMAL EXPANSION COEFFICIENT AND GRUENEISEN PARAMETER FOR LITHIUM
 J. PHYS. SOC. JAP., V.33, P.1214-P.1217 (1972)
 LI ..THEORY/ PHONON DISPERSION/ THERMAL EXPANSION/ GRUENEISEN PARAMETER
- 72-SI-05 SINGH, R.K.
 A GENERALIZED SHELL MODEL OF LATTICE DYNAMICS
 SOLID STATE COMMUN., V.11, P.65 (1972)

- THEORY-OF-SOLIDS .. THEORY/SHELL MODEL
- 72-SI-06 SINGH, R.K./ UPADHYAYA, K.S.
CRYSTAL DYNAMICS OF MAGNESIUM OXIDE
PHYS. REV. B, V.6, P.1589-P.1596 (1972)
M.G.O. .. THEORY/ SHELL MODEL/ PHONON DISPERSION/ SPECIFIC
HEAT
- 72-SI-07 SINGH, R.K.
DISPERSION OF PHONONS IN LITHIUM DEUTERIDE
SOLID STATE COMMUN., V.11, P.559-P.561 (1972)
L.I.H. .. THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 72-SI-08 SINGH, R.K.
THE DYNAMICAL BEHAVIOR OF SILVER CHLORIDE WITH MODIFIED
SHELL MODEL
AG.CL. .. MODEIFIED SHELL MODEL/ THEORY
- 72-SI-09 SINK, C.W./ HARVEY, A.B.
VIBRATIONAL SPECTRUM OF METHANETELLUROL
J. CHEM. PHYS., V.57, P.4434 (1972)
C.H.4.TE .. EXPERIMENT .. INFRARED AND RAMAN SPECTRA
- 72-SK-01 SKALYO-JR, J./ MINKIEWICZ, V.J./ SHIRANE, G.
INELASTIC NEUTRON SCATTERING FROM SOLID NEON
PHYS. REV. B, V.6, P.4766-P.4779 (1972)
NE .. EXPERIMENT/ PHONON DISPERSION/ A-S MODEL FITTING/
FREQUENCY DISTRIBUTION
- 72-SK-02 SKOELD, K.S./ ROWE, J.M./ OSTROWSKI, G./ RANDOLPH,
P.V.
COHERENT- AND INCOHERENT-SCATTERING LAWS OF LIQUID ARGON
N
PHYS. REV. A, V.6, P.1107-P.1131 (1972)
AR .. EXPERIMENT/ LIQUID/ SCATTERING LAW/ COHERENT AND I
NCOHERENT
- 72-SK-03 SKOELD, K./ ROWE, J.M./ OSTROWSKI, G./ RANDOLPH, P.
D.
NEUTRON INELASTIC SCATTERING STUDY OF LIQUID ARGON
AE-445 (1972)
AR .. EXPERIMENT/ INELASTIC SCATTERING FUNCTION/ 85.2DK
- 72-SM-01 SMITH, H.G./ WAKABAYASHI, N./ NICKLOW, R.M.
LOCALIZED TORSIONAL AND TRANSLATIONAL MODES IN K.C.L.(N.
H4)
NEUTRON INELASTIC SCATTERING, IAEA, P.103 (1972)
K.N.H4.CL .. EXPERIMENT/ LOCALIZED PHONON
- 72-SM-02 SMITH, H.G./ WAKABAYASHI, N./ NICKLOW, R.M./ MIHAI
LOVICH, S.
- NEUTRON SCATTERING, PHONON SPECTRA, AND SUPERCONDUCTIVI
TY
CONF-720833-12 (1972)
NB.C/ ZR.C/ TC/ ZR/ Y .. EXPERIMENT/ SUPERCONDUCTIVITY/
ELECTRON-PHONON INTERACTION
- 72-SM-03 SMITH, H.C.
PHONON ANOMALIES IN TRANSITION-METAL CARBIDES
PHYS. REV. LETT., V.29, P.353 (1972)
T.A.C. .. PHONON DISPERSION
- 72-SO-01 SOLANA, J./ CELLI, V./ RUVALDS, J./ TUETTO, I./ ZA
WADOWSKI, A.
THEORY OF THE ROTON LIFETIME IN SUPERFLUID HELLIUM
KFKI-72-23 (1972)
HE .. THEORY/ TWO-ROTON RESONANCE/ ROTON DISPERSION/ LIN
EWIDTH
- 72-SO-02 SOLBRIG, H.
MULTIPLE SCATTERING OF THERMAL NEUTRONS BY A PERFECT CR
YSTAL, 3 CALCULATION OF THE NEUTRON WAVE FIELD
PHYS. STATUS SOLIDI B, V.51, P.555-P.564 (1972)
NEUTRON-SCATTERING-IN-SOLIDS .. THEORY/ MULTIPLE SCATTER
ING/ PERFECT CRYSTAL
- 72-SO-03 SOSNOWSKI, J./ CZACHOR, A./ MALISZEWSKI, E.
PHONON DISPERSION CURVES IN ANTIMONY
NEUTRON INELASTIC SCATTERING, IAEA, P.61-P.70 (197
2)
SB .. EXPERIMENT/ PHONON DISPERSION/ FIVE-NEIGHBOUR MODE
L FITTING
- 72-SO-04 SOSNOWSKI, J./ CZACHOR, A./ MALISZEWSKI, E.
PHONON DISPERSION CURVES IN ANTIMONY
INR-P-1379/II/PS (1972)
SB .. EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FREQ
UENCY SPECTRUM
- 72-SP-01 SPRINGER, T.
INVESTIGATION OF MOLECULAR MOTIONS IN CRYSTALS WITH NEU
TRON SPECTROSCOPES
KOLLOID-Z. Z. POLYM., V.250, P.993-P.999 (1972)
REVIEW-ARTICLES .. NEUTRON SCATTERING/ ORGANIC MOLECULAR
CRYSTAL/ PHONON
- 72-ST-01 STEELE, D./ CHILDS, P.E./ FENDER, B.E.F.
DEFECT STRUCTURE OF CALCIUM FLUORIDE CONTAINING EXCESS
ANIONS, II. DIFFUSE SCATTERING
J. PHYS., G, LONDON, V.5, P.2677 (1972)
CA.F2/ SCATTERING-BY-DEFECTS .. DIFFUSE SCATTERING
- 72-ST-02 STEIN, H.

- THE LATTICE DYNAMICS OF CRYSTALLINE HYDROGEN IN CUBIC AND HEXAGONAL PHASE
 JUL-838-FF (1972)
 H2 ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ SCATTERING LA W/ FREQUENCY DISTRIBUTION
- 72-ST-03 STEIN, N./ STILLER, H./ STOCKMEYER, R.
 PHONONS, LIBRONS, AND THE ROTATIONAL STATE J=1 IN HCP AND FCC SOLID HYDROGEN BY NEUTRON SPECTROSCOPY
 J. CHEM. PHYS., V.57, P.1726 (1972)
 H2 ..LATTICE AND MOLECULAR DYNAMICS
- 72-ST-04 STEINMAN, D.K./ KING, J.S./ SMITH, H.G.
 EXTERNAL MODES IN CA.W.04
 NEUTRON INELASTIC SCATTERING, IAEA, P.219-P.229 (1972)
 CA.W.04 ..EXPERIMENT/ PHONON DISPERSION/ RIGID-ION, SHELL MODEL CALCULATION
- 72-ST-05 STIRLING, W.G.
 NEUTRON INELASTIC SCATTERING STUDY OF THE LATTICE DYNAMICS OF STRONTIUM TITANATE, HARMONIC MODELS
 J. PHYS., C, LONDON, V.5, P.2711-P.2730 (1972)
 SR-TI.03 ..EXPERIMENT/ PHONON DISPERSION/ VARIOUS MODEL FITTING/ FREQUENCY DISTRIBUTION/ SPECIFIC HEAT
- 72-ST-06 STIRLING, W.G./ COWLEY, R.A./ STRINGFELLOW, M.W.
 CRYSTAL DYNAMICS OF PD3*FE AT 80 DEG.K.
 J. PHYS., F, LONDON, V.2, P.421 (1972)
 PD-FE ..LATTICE DYNAMICS/ PHONON DISPERSION/ 80 DK
- 72-ST-07 STUMP, N./ GISSLER, W./ RUBIN, R.
 QUASIELASTIC NEUTRON SCATTERING ON HYDROGEN IN NIOBIUM SINGLE CRYSTALS
 JUL-CONF-6, V.1, P.375-P.387 (1972)
 NB-H ..EXPERIMENT/ HYDROGEN DIFFUSION/ SINGLE CRYSTAL
- 72-ST-08 STUMP, N./ GISSLER, W./ RUBIN, R.
 QUASI-ELASTIC NEUTRON SCATTERING ON HYDROGEN IN NIOBIUM SINGLE CRYSTALS
 PHYS. STATUS SOLIDI B, V.54, P.295-P.302 (1972)
 NB-H ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ DIFFUSION BROADENING/ 235C.256C/ NB-HO.07
- 72-SU-01 SUCK, J.B./ GLAESER, W.
 COLLECTIVE EXCITATIONS IN LIQUID RUBIDIUM AND THE LIQUID SOLID PHASE
 NEUTRON INELASTIC SCATTERING, IAEA, P.435-P.442 (1972)
 RB ..EXPERIMENT/ LIQUID AND SOLID/ COLLECTIVE EXCITATION
- 72-SV-01 SVENSSON, E.C./ WOODS, A.D.B./ MARTEL, P.
 PHONON DISPERSION IN LIQUID HELIUM UNDER PRESSURE
 PHYS. REV. LETT., V.29, P.1148 (1972)
 HE ..LIQUID DYNAMICS/ PHONON DISPERSION
- 72-TA-01 TAKENO, S./ GODA, M.
 PHONON-LIKE EXCITATIONS IN LIQUID HELIUM
 PROGR. THEORET. PHYS., KYOTO, V.48, P.724-P.730 (1972)
 THEORY-OF-FLUIDS/ HE ..THEORY/ PHONON-LIKE EXCITATION/ LIQUID HELIUM
- 72-TA-02 TAKENO, S./ GODA, M.
 A THEORY OF PHONON-LIKE EXCITATIONS IN NON-CRYSTALLINE SOLIDS AND LIQUIDS
 PROGR. THEORET. PHYS., KYOTO, V.47, P.790-P.806 (1972)
 THEORY-OF-SOLIDS/ THEORY-OF-FLUIDS/ HE ..THEORY/ PHONON-LIKE EXCITATION
- 72-TA-03 TALWAR, D.N./ AGRAWAL, B.K.
 LATTICE DYNAMICS OF II-VI, III-V COMPOUNDS
 SOLID STATE COMMUN., V.11, P.1691-P.1694 (1972)
 ZN.SE/ IN.SB ..THEORY/ PHONON DISPERSION
- 72-TA-04 TANI, K.
 NEUTRON SCATTERING DUE TO THE LATTICE VIBRATION NEAR THE TRANSITION TEMPERATURE (IN JAPANESE)
 JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON SCATTERING, P.103-P.105 (1972)
 NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ NEUTRON SCATTERING BY PHONON/ PHASE TRANSITION
- 72-TH-01 THE, H.C.
 MODEL CALCULATIONS FOR LATTICE VIBRATIONS IN N.D4,CL AT 85DK
 CAN. J. PHYS., V.50, P.2807-P.2814 (1972)
 N.H4,CL ..THEORY/ PHONON DISPERSION/ RIGID ION, SHELL MODEL/ FREQUENCY DISTRIBUTION
- 72-TH-02 THOMA, K./ ZIMMERMANN, R.
 LATTICE VIBRATIONS AT IDEAL Si(111) SURFACES
 Z. PHYS., V.252, P.168-P.173 (1972)
 SI ..CALCULATION/ SURFACE PHONON
- 72-TI-01 TIITA, A./ TUNKELO, E.
 CORRECTION FOR MULTIPLE SCATTERING IN COLD NEUTRON EXPERIMENTS
 NUCL. INSTRUM. METHODS, V.103, P.575 (1972)
 METHANE ..MULTIPLE SCATTERING
- 72-TO-01 TOKUNAGA, M.

- EFFECT OF DIPOL-DIPOL INTERACTION ON THE DISPERSION RELATION IN FERROELECTRICS OF PEROVSKITE STRUCTURE (IN JAPANESE)
JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON SCATTERING, P.94-P.97 (1972)
THEORY-OF-SOLIDS ..LATTICE VIBRATION/ DIPOL INTERACTION / PEROVSKITE STRUCTURE
- 72-TO-02 TOLPYGO, K.B./ TROITSKAYA, E.P.
FORCE CONSTANTS AND PHONON DISPERSION IN RARE-GAS CRYSTALS
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.14, P.2867-P.2872 (P.2480-P.2483) (1972)
NE/ AR/ KR ..DISPERSION CURVE
- 72-TO-03 TONG, B.Y.
KOHNSHAM SELF-CONSISTENT CALCULATION OF THE STRUCTURE OF METALLIC SODIUM
PHYS. REV. B, V.6, P.1189-P.1194 (1972)
NA ..THEORY/ LOCAL-EFFECTIVE-POTENTIAL APPROX./ LATTICE PARAMETER/ COMPRESSIBILITY/ COHESIVE ENERGY
- 72-TO-04 TOUSSAINT, G./ CHAMPIER, G.
LATTICE DYNAMICS OF CADMIUM AT 88DK
PHYS. STATUS SOLIDI B, V.54, P.165-P.172 (1972)
CD ..X-RAY DIFFUSE SCATTERING/ 88DK/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECTRUM
- 72-TR-01 TRICKEY, S.B./ WITRIOL, N.M./ MORLEY, G.L.
LATTICE DYNAMICS OF HARD-CORE, HIGHLY ANHARMONIC CRYSTALS
SOLID STATE COMMUN., V.11, P.139-P.143 (1972)
THEORY-OF-SOLIDS ..THEORY/ SELF-CONSISTENT HARMONIC TRE ATMENT/ HARD-CORE QUANTUM CRYSTAL
- 72-TR-02 TRYLOR, J.G./ STASSIS, C./ REESE, R.A./ SINHA, S.K.
PHONON SPECTRA OF FCC HE-4
NEUTRON INELASTIC SCATTERING, IAEA, P.129-P.134 (1972)
HE ..EXPERIMENT/ PHONON DISPERSION/ FCC HE-4
- 72-TU-01 TUBINO, R./ PISERI, L./ ZERBI, G.
LATTICE DYNAMICS AND SPECTROSCOPIC PROPERTIES BY A VALENCE FORCE POTENTIAL OF DIAMOND-LIKE CRYSTAL: C, SI, GE, AND SN
J. CHEM. PHYS., V.56, P.1022-P.1039 (1972)
DIAMOND/ SI/ GE/ SN ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL
- 72-TW-01 TWISLETON, J.F./ WHITE, J.W.
INTERCHAIN FORCE FIELD OF POLYETHYLENE BY NEUTRON SCATTERING
- ERING
NEUTRON INELASTIC SCATTERING, IAEA, P.301-P.313 (1972)
POLYETHYLENE ..EXPERIMENT/ PHONON DISPERSION/ PERPENDICULAR TO CHAIN AXES
- 72-UP-01 UPADHYAYA, K.S./ SINGH, R.K.
PHONON SPECTRA OF PARAMAGNETIC COBALTOUS OXIDE
PHYS. LETT., A, V.40, P.291-P.292 (1972)
CO.O ..THEORY/ PHONON DISPERSION/ THREE-BODY FORCE SHELL MODEL
- 72-UP-02 UPADHYAYA, K.S./ SINGH, R.K.
THREE-BODY FORCE SHELL MODEL-AN APPLICATION TO CA.O SOLID STATE COMMUN., V.11, P.567-P.569 (1972)
CA.O ..THEORY/ LATTICE/ DYNAMICS/ DISPERSION RELATION
- 72-UP-03 UPADHYAYA, K.S./ SINGH, R.K.
DISPERSION PROPERTIES OF MANGANOUS OXIDE
SOLID STATE COMMUN., V.11, P.109 (1972)
MN.O ..THEORY/ PHONON DISPERSION
- 72-VI-01 VIJAYARAGHAVAN, P.R./ MARSONGKOHADI, . / IYENGAR, P.K.
LATTICE DYNAMICS OF CALCIUM OXIDE
NEUTRON INELASTIC SCATTERING, IAEA, P.95-P.102 (1972)
CA.O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING/ PHONON SPECTRA
- 72-WA-01 WAEBER, W.B.
A CONTRIBUTION TO THE THEORY OF LATTICE VIBRATIONS
J. PHYS., C, LONDON, V.5, P.1773 (1972)
GA/ THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..METAL/ ORTHORHOMBIC
- 72-WA-02 WAKABAYASHI, N./ AHMAD, A.A.Z./ SHANKS, H.R./ DANIELSON, G.C.
LATTICE DYNAMICS OF MG2.PB AT ROOM TEMPERATURE
PHYS. REV. B, V.5, P.2103-P.2107 (1972)
MG2.PB ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECTRA
- 72-WA-03 WASIUTYNSKI, T./ LUTY, T.
LATTICE DYNAMICS CALCULATION FOR LOW TEMPERATURE PHASE OF SOLID METHANE
INP-794/PS (1972)
C.H4 ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..SPECIFIC HEAT
- 72-WE-01 WERTHAMER, N.R.
INTERPRETATION OF INELASTIC NEUTRON-SCATTERING OBSERVATIONS

- IONS IN BCC SOLID AND SUPERFLUID HE (ISOTOPE - A-4)
PHYS. REV. LETT., V.28, P.1102 (1972)
HE ..THEORY
- 72-WH-01 WHITE, J.W.
SOME APPLICATIONS OF INELASTIC NEUTRON SCATTERING SPECTROSCOPY TO SURFACE CHEMISTRY AND CATALYSIS
NEUTRON INELASTIC SCATTERING, IAEA, P.315-P.343 (1972)
- REVIEW-ARTICLES ..NEUTRON SPECTROSCOPY/ SURFACE CHEMISTRY/ CATALYSIS
- 72-WH-02 WHITE, J.W./ WRIGHT, C.J.
INTERNAL VIBRATIONS AND HINDERED ROTATION OF H₂H₉(2-) BY NEUTRON SCATTERING SPECTROSCOPY
J. C. S. FARADAY TRANS. 2, V.68, P.1414-P.1422 (1972)
- K₂RE.H₉/ NA₂RE.H₉ ..EXPERIMENT/ N-SPECTROSCOPY/ MOLECULAR VIBRATION
- 72-WH-03 WHITE, J.W./ WRIGHT, C.J.
NEUTRON SCATTERING SPECTRA OF HYDRIDCARBONYLS IN THE 90-200K ENERGY REGION
J. C. S. FARADAY TRANS. 2, V.68, P.1423-P.1433 (1972)
- H₂CO.(C.O)4/ H₂FE.(C.O)4/ H₂MN.(C.O)5/ K.H.FE.(C.O)4/ H₃MN₃.(C.O)12/ CS.H.FE₃.(C.O)11 ..EXPERIMENT/ N-SPECTROSCOPY/ HYDROGEN VIBRATION
- 72-WI-01 WINFIELD, D.J./ ROSS, D.K.
THE QUASI-ELASTIC SCATTERING OF NEUTRONS FROM C₆H₆ AND C₆D₆
MOL. PHYS., V.24, P.753-P.772 (1972)
C₆H₆ ..EXPERIMENT/ TIME OF FLIGHT/ QUASIELASTIC SCATTERING ..MEAN INTERVAL BETWEEN JUMP
- 72-WO-01 WOODS, A.D.B./ SVENSSON, E.C./ MARTEL, P.
LOW-MOMENTUM-TRANSFER NEUTRON SCATTERING IN LIQUID HELIUM
NEUTRON INELASTIC SCATTERING, IAEA, P.359-P.362 (1972)
- HE ..EXPERIMENT/ LIQUID DYNAMICS/ LOW-MOMENTUM-TRANSFER
- 72-YA-01 YAMADA, K./ ISHIKAWA, K.
PHONON DISPERSION AND CONTRIBUTION TO THE HEAT CAPACITY IN LIQUID HE-4
PROGR. THEORET. PHYS., KYOTO, V.47, P.1455-P.1463 (1972)
- HE ..THEORY/ PHONON DISPERSION/ LIQUID HELIUM
- 72-YA-02 YAMADA, Y.
QUASI SPIN-PHONON INTERACTIONS AND INELASTIC SCATTERING OF NEUTRONS RELATED WITH IT (IN JAPANESE)
JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON SCATTERING, P.108-P.114 (1972)
THEORY-OF-SOLIDS ..SPIN-PHONON INTERACTION/ LATTICE INSTABILITY
- 73-AM-01 AMARAL, L.O./ VINHAS, L.A./ HERDADE, S.B.
NEUTRON TRANSMISSION STUDY OF THE POTENTIAL FREEDOM OF METHYL GROUPS IN POLYDIMETHYLSILOXANE
IEA-320 (1973)
NEUTRON-SCATTERING-IN-SOLIDS/ POLYDIMETHYLSILOXANE ..EXPERIMENT/ SOLID/ T-O-F/ SIGMA (E)
- 73-AS-01 ASKAR, A.
DISPERSION RELATION AND WAVE SOLUTION FOR ANHARMONIC LATTICES AND KORTEWEG DE VRIES CONTINUA
PROC. ROY. SOC., LONDON, SER. A, V.334, P.83 (1973)
- THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ ANHARMONICITY ..MONOATOMIC CHAIN/ KORTEWEG DE VRIES EQUATION
- 73-AX-01 AXE, J.D./ SHAPIRO, S.M./ SHIRANE, G.
NEUTRON SCATTERING STUDIES OF SOFT MODE DYNAMICS
BNL 18057 (1973)
NB3.SN/ SR.TI.03 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE
- 73-AX-02 AXE, J.D./ SHIRANE, G.
INFLUENCE OF THE SUPERCONDUCTING ENERGY GAP ON PHONON LINEWIDTHS IN NB₃SN
PHYS. REV. LETT., V.30, P.214 (1973)
NB₃SN ..PHONON LINEWIDTHS
- 73-AX-03 AXE, J.D./ SHIRANE, G.
INELASTIC-NEUTRON-SCATTERING STUDY OF ACOUSTIC PHONON IN NB₃SN
PHYS. REV. B, V.8, P.1965-P.1977 (1973)
NB₃SN/ SUPERCONDUCTOR ..ACOUSTIC PHONON DISPERSION/ TEMPERATURE CHANGE/ CUBIC-TETAGONAL PHASE CHANGE/ SUPERCONDUCTING PHASE CHANGE/ ELECTRON-PHONON INTERACTION
- 73-BA-01 BARKER, M.I./ GASKELL, T.
DENSITY FLUCTUATIONS IN LIQUID ARGON
PHYS. LETT., A, V.43, P.81-P.82 (1973)
AR ..THEORY/ DYNAMIC STRUCTURE FACTOR
- 73-BA-02 BARKER, M.I./ GASKELL, T.
DYNAMIC STRUCTURE FACTOR OF LIQUID SODIUM. A GENERALIZED HYDRODYNAMIC APPROACH
J. PHYS., C, LONDON, V.6, P.3341-P.3348 (1973)

- NA ..THEORY/ S(Omega)/LIQUID/ HYDRODYNAMIC APPROACH
- 73-BA-03 BASU, A.N./ SENGUPTA, S.
LATTICE DYNAMICS OF ALKALI HALIDES
PHYS, REV. B, V.8, P.2982-P.2990 (1973)
NA,CL/ NA,BR/ K.I/ K.CL/ K.BR ..THEORY/ DEFORMABLE SHELL
MODEL/ PHONON DISPERSION/ FREQUENCY SPECTRA
- 73-BE-01 BEEBY, J.L.
NEUTRON SCATTERING FROM AQUEOUS SOLUTIONS. THE LONG-WAVELENGTH LIMIT
J. PHYS., C, LONDON, V.6, P.2262-P.2268 (1973)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LONG-WAVELENGTH LIMIT/ SCATTERING FUNCTION
- 73-BE-02 BELL, H.G./ KOLLMAR, A./ ALEFELD, B./ SPRINGER, T.
INVESTIGATION OF COLLECTIVE EXCITATIONS IN LIQUID NEON BY MEANS OF NEUTRON SCATTERING AT SMALL SCATTERING VECTORS
PHYS. LETT., A, V.45, P.479 (1973)
NE/ NEUTRON-SCATTERING-IN-FLUIDS ..EXPERIMENT/ LIQUID/ NEUTRON SPECTRUM ..COHERENT SCATTERING
- 73-BO-01 BOETTGER, H.
ON THE THEORY OF PHONON-LIKE EXCITATIONS IN NONCRYSTALLINE SOLIDS
PHYS. STATUS SOLIDI B, V.59, P.517 (1973)
THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..DISORDERED LATTICE/ DYSON EQUATION/ GREEN'S FUNCTION
- 73-BO-02 BONADEO, H./ TADDEI, G.
CALCULATION OF DISPERSION RELATIONS AND FREQUENCY DISTRIBUTION OF CRYSTALLINE BENZENE
J. CHEM. PHYS., V.58, P.979 (1973)
BENZENE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION / FREQUENCY DISTRIBUTION FUNCTION
- 73-BO-03 BOSE, G./ GUPTA, H.C./ TRIPATHI, B.B.
PHONON DISPERSION IN SCANDIUM
PHYS. LETT., A, V.43, P.365-P.366 (1973)
SC ..THEORY/ PHONON DISPERSION/ FIVE PARAMETER
- 73-BO-04 BOSE, G./ TRIPATHI, B.B./ GUPTA, H.C.
THE LATTICE DYNAMICS OF HEXAGONAL CLOSE PACKED METALS
J. PHYS. SOC. JAP., V.34, P.1006-P.1013 (1973)
BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ SPECIFIC HEAT/ CENTRAL AND NONCENTRAL FORCE
- 73-BO-05 BOYER, L.L./ HARDY, J.R.
LATTICE DYNAMICS OF A RIGID-ION MODEL FOR GADOLINIUM MOLYBDATE
- PHYS. REV. B, V.8, P.2205-P.2213 (1973)
GADOLINIUM MOLYBDATE/ PHASE-TRANSITION ..THEORY/ RIGID-ION MODEL/ PHONON DISPERSION/ FREQUENCY SPECTRUM
- 73-BR-01 BREBNER, J.L./ JANDL, S./ POWELL, B.M.
NEUTRON SCATTERING MEASUREMENTS OF THE INTERLAYER INTERACTION IN GA-SE
SOLID STATE COMMUN., V.13, P.1555 (1973)
GA/ SE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ INELASTIC NEUTRON SCATTERING
- 73-BR-02 BRUCE, A.D./ COWLEY, R.A.
LATTICE DYNAMICS OF STRONTIUM TITANATE. ANHARMONIC INTERACTIONS AND STRUCTURAL PHASE TRANSITIONS
J. PHYS., C, LONDON, V.6, P.2422-P.2439 (1973)
SR,TI,03/ PHASE-TRANSITION ..THEORY/ ANHARMONIC MODEL/ PHONON FREQUENCY, LINE WIDTH
- 73-BU-01 BUEHER, W.
CRYSTAL DYNAMICS OF CAESIUM FLUORIDE
J. PHYS., C, LONDON, V.6, P.2931-P.2942 (1973)
CS,F ..EXPERIMENT/ PHONON DISPERSION/ SEVEN PARAMETER SELF MODEL FITTING/ PHONON SPECTRA/ HEAT CAPACITY/ DEBYE TEMP.
- 73-CA-01 CAVALHEIRO, R./ SHUKLA, M.M.
THE LATTICE VIBRATIONS IN LEAD
J. PHYS. SOC. JAP., V.34, P.1002-P.1005 (1973)
PB ..THEORY/ PHONON DISPERSION/ DEBYE TEMP./ DE LAUNAY MODEL
- 73-CH-01 CHAMARD-BOIS, R./ ROSSAT-MIGNOD, J.
THE DETERMINATION OF CRYSTAL FIELD LEVELS IN THE INTERMETALLIC COMPOUND HO.RH BY INELASTIC NEUTRON SCATTERING
SOLID STATE COMMUN., V.13, P.1549-P.1553 (1973)
MAGNETIC-SCATTERING/ HO-RH ..EXPERIMENT/ T-O-F/ CRYSTAL FIELD-LEVEL
- 73-CH-02 CHIHARA, J.
INTEGRAL EQUATIONS FOR NEUTRAL AND CHARGED QUANTUM FLUIDS INCLUDING EXTENSION OF THE PERCUS-YEVICK EQUATION PROGRAM, THEORET. PHYS., KYOTO, V.50, P.1156-P.1181 (1973)
THEORY-OF-FLUIDS ..NEUTRAL AND CHARGED QUANTUM FLUIDS/ INTEGRAL EQUATION
- 73-CH-03 CHIHARA, J.
SPACE-TIME CORRELATION FUNCTIONS IN QUANTAL AND CLASSICAL BINARY MIXTURES. I
PROGR. THEORET. PHYS., KYOTO, V.50, P.794-P.806 (1973)
THEORY-OF-FLUIDS ..QUANTAL BINARY MIXTURE/ DYNAMICAL ST

73-CH-04 CHIHARA, J.
 INTEGRAL EQUATIONS FOR FLUIDS WITH LONG-RANGE AND SHORT
 -RANGE POTENTIALS
 PROGR. THEORET. PHYS., KYOTO, V.50, P.409-P.423 (1
 973)
 THEORY-OF-FLUIDS ..INTEGRAL EQUATION/ LONG-RANGE AND SH
 ORT-RANGE POTENTIALS

73-CH-05 CHIHARA, J.
 NEW TYPES OF INTEGRAL EQUATIONS FOR OBTAINING THE RADIA
 L DISTRIBUTION FUNCTION OF FLUIDS
 PROGR. THEORET. PHYS., KYOTO, V.49, P.693-P.694 (1
 973)
 THEORY-OF-FLUIDS ..INTEGRAL EQUATION/ CHARGED PARTICLE
 SYSTEM

73-CH-06 CHOWDHURY, M.R./ ROSS, D.K.
 A NEUTRON SCATTERING STUDY OF THE VIBRATIONAL MODES OF
 HYDROGEN IN THE BETA-PHASES OF PD-H, PD-10AG-H AND PD-2
 OAG-H
 SOLID STATE COMMUN., V.13, P.229-P.234 (1973)
 PD-H/ PD-AG-H ..EXPERIMENT/ HYDROGEN VIBRATION IN METAL

73-CO-01 COCHRAN, W.
 THE DYNAMICS OF ATOMS IN CRYSTALS
 THE STRUCTURES AND PROPERTIES OF SOLIDS, 3 (1973)
 THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS

73-CO-02 COPLEY, J.R.D/ BROCKHOUSE, B.N.
 CRYSTAL DYNAMICS OF RUBIDIUM. 1. MEASUREMENTS AND HARMO
 NIC ANALYSIS
 CAN. J. PHYS., V.51, P.657-P.675 (1973)
 R8 ..EXPERIMENT/ PHONON DISPERSION/ 12.85,120.205K/ HAR
 MONIC ANALYSIS/ PHONON DENSITY

73-CO-03 COPLEY, J.R.D.
 CRYSTAL DYNAMICS OF RUBIDIUM. 2. ANHARMONIC CALCULATION
 S OF THE PHONON SELF-ENERGY AND THE HEAT CAPACITY
 CAN. J. PHYS., V.51, P.2564-P.2586 (1973)
 R8/ NEUTRON-SCATTERING-IN-SOLIDS ..ANHARMONICITY/ DISPER
 SION CURVE

73-CO-04 COWLEY, E.R.
 A SIMPLE BOND CHARGE MODEL FOR THE PHONON DISPERSION RE
 LATIONS IN TELLURIUM
 CAN. J. PHYS., V.51, P.843 (1973)
 TE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..BO
 ND CHARGE MODEL

73-CO-05 COWLEY, E.R./ PANT, A.K.
 LATTICE DYNAMICS OF CALCITE
 PHYS. REV. B, V.8, P.4795 (1973)
 CA.C.03 ..DISPERSION RELATION/ INELASTIC NEUTRON SCATTE
 RING

73-CZ-01 CZACHOR, A.
 SHELL MODEL OF LATTICE DYNAMICS FOR MONATOMIC SYSTEM WI
 TH ISOTROPIC SHELL-CORE COUPLING
 J. PHYS., C, LONDON, V.6L, P.13 (1973)
 THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..SHELL MOD
 EL

73-DA-01 DAWSON, P./ HARGREAVE, M.M./ WILKINSON, G.R.
 THE DIELECTRIC AND LATTICE VIBRATIONAL SPECTRUM OF CUPR
 OUS OXIDE
 J. PHYS. CHEM. SOLIDS, V.34, P.2201-P.2208 (1973)
 CU2.O ..I.R. AND RAMAN EXPERIMENT

73-DE-01 DENHAM, P.A./ MORSE, P.L.R./ WILKINSON, G.R.
 THE PHONON DISPERSION CURVES, INFRA-RED AND RAMAN SPECT
 RA OF SR.CL2
 J. PHYS., C, LONDON, V.6, P.2066-P.2075 (1973)
 SR.CL2 ..INFRA-RED, RAMAN SPECTRA/ PHONON DISPERSION.FR
 EQUENCY SPECTRA CALCULATION

73-DJ-01 DIMIC, V./ OSREDKAR, M./ SLAK, J./ KANDUSAR, A.
 STUDY OF NH4 MOTION IN SOME ANTIFERROELECTRIC CRYSTALS
 BY INELASTIC SCATTERING OF COLD NEUTRONS
 PHYS. STATUS SOLIDI B, V.59, P.471-P.479 (1973)
 N.H4.H2.P.04/ N.H4.H2.AS.04/ (N.H4)2.H3.I.06 ..EXPERIME
 NT/ ROTATING CRYSTAL SPECTROMETER/ TOF/ SIGMA (E) ..HIN
 DERED ROTATION OF NH4+ION/ FAR INFRARED SPECTRA/ MAGNET
 IC RESONANCE/293,153,123,113DK

73-DO-01 DOLLING, G./ PAWLEY, G.S./ POWELL, B.M.
 INTERATOMIC FORCES IN HEXAMETHYLENETETRAMINE
 PROC. ROY. SOC., LONDON, SER. A, V.333, P.363-P.38
 4 (1973)
 HEXAMETHYLENETETRAMINE ..THEORY/ PHONON DISPERSION/ AS
 MODEL TENSOR FORCE MODEL

73-DU-01 DUESBERY, M.S./ TAYLOR, R./ GLYDE, H.R.
 ANHARMONIC LATTICE DYNAMICS IN K
 PHYS. REV. B, V.4, P.1372-P.1378 (1973)
 K ..ANHARMONICITY/ DISPERSION CURVE/ THEORY

73-ES-01 ESCHRIG, H./ FELDMANN, K./ HENNIG, K./ JOHN, W./ L
 OYEN, L.V.
 PHONON DENSITY OF STATES AND COHERENT INELASTIC NEUTRON
 SCATTERING ON COMPLEX STRUCTURES
 PHYS. STATUS SOLIDI B, V.58K, P.159-P.162 (1973)

- 73-GR-02 GISSLER, W./ JAY, B./ RUBIN, R./ VINHAS, L.A.
INTEGRATED QUASI-ELASTIC NEUTRON SCATTERING INTENSITY OF
F HYDROGEN IN NIOBIUM
PHYS. LETT., A, V.43, P.279-P.281 (1973)
NB-H ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ INTEGRATED
INTENSITY/ ANGULAR DEPENDENCE
- 73-GR-01 GRAMACCIOLI, C.M./ SIMONETTA, M./ SUFFRITTI, G.B.
LATTICE DYNAMICS IN CRYSTALS OF RIGID HYDROCARBONS
CHEM. PHYS. LETT., V.20, P.23-P.28 (1973)
ANTHRACENE/ NAPHTHALENE/ BUTANOANNULENE ..THEORY/ AROMA
TIC HYDROCARBON/ VIBRATION FREQUENCY
- 73-GR-02 GRUNDKE, E.W./ HENDERSON, D./ MURPHY, R.D.
EVALUATION OF THE PERCUS-YEVICK THEORY FOR MIXTURES OF
SIMPLE LIQUIDS
CAN. J. PHYS., V.51, P.1216-P.1226 (1973)
THEORY-OF-FLUIDS ..PERCUS-YEVICK/ MIXTURE ..LENNARD-JON
ES
- 73-GU-01 GUNTON, D.J./ SAUNDERS, G.A.
THE SOFT ACOUSTIC PHONON MODE AND ITS RELATION TO THE M
ARTENSITIC TRANSFORMATION IN IN-TL ALLOYS
SOLID STATE COMMUN., V.12, P.569-P.572 (1973)
IN/ IN-TL ..THEORY/ PHONON DISPERSION/ MARTENSITIC PHAS
E CHANGE
- 73-HA-01 HAMA, J./ MIYAGI, H.
SPIN CORRELATION EFFECT ON THE SLOW NEUTRON SCATTERING
BY POLYATOMIC MOLECULES WITH PARTICULAR REFERENCE TO ME
THANE
PROGR. THEORET. PHYS., KYOTO, V.50, P.1142-P.1143
(1973)
METHANE ..THEORY/ NUCLEA SPIN CORRELATION EFFECT/ ZEMAC
H-GLAUBER APPROXIMATION
- 73-HA-02 HARLEY, R.T./ HAYES, W./ TWISLETON, J.F.
LOW-FREQUENCY RAMAN SPECTRA OF SINGLE-CRYSTAL TEXTURED
POLYETHYLENE
J. PHYS., C, LONDON, V.6L, P.167-P.170 (1973)
POLYETHYLENE ..EXPERIMENT/ RAMAN/ LOW-FREQUENCY PHONON/
4,2-373K
- 73-HE-01 HERDADE, S.B./ VINHAS, L.A./ RODRIGUES, C./ AMARAL
L.O.
NEUTRON CROSS SECTIONS OF POLYETHYLENE AND LIGHT WATER
IN THE ENERGY RANGE 8.2E04 TO 0.13 EV
IEA-310 (1973)
POLYETHYLENE/ H2.O ..EXPERIMENT/ SOLID/ LIQUID/ T-O-F/
SIGMA (E)
- MG.ZN2 ..EXPERIMENT/ PHONON DENSITY/ COHERENT SCATTERER
/ POWDER SAMPLE
- 73-FA-01 FARR, M.K.
THE LATTICE DYNAMICS OF GALLIUM ANTIMONIDE
IS-T-587 (1973)
GA.SB ..THESES/ LATTICE DYNAMICS/ DISPERSION/ PHONON SP
ECTRA/ DEBYE TEMP.
- 73-FI-01 FILIPPINI, G./ GRAMACCIOLI, C.M./ SIMONETTA, M./ SU
FFRITTI, G.B.
LATTICE-DYNAMICAL CALCULATIONS ON SOME RIGID ORGANIC MO
LECULES
J. CHEM. PHYS., V.59, P.5088 (1973)
NAPHTHALENE/ ANTHRACENE/ PHENANTHRACENE/ PYRENE/ ANNULEN
E ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
- 73-FO-01 FOLTER, C.
PHONON DISPERSION AND SYMMETRY OF SOLID-J2
Z. PHYS., V.258, P.263-P.276 (1973)
I/ B ..THEORY/ DISPERSION FUNCTION/ BORN VON KARMAN MOD
EL
- 73-FO-02 FOSTER, D.
A NEW SUM RULE FOR THE KINETIC THEORY OF CLASSICAL FLUI
DS
PHYS. LETT., A, V.46A, P.9-P.10 (1973)
THEORY-OF-FLUIDS ..CLASSICAL FLUID/ KINETIC THEORY/ PAI
R CORRELATION FUNCTION
- 73-FR-01 FRANCHETTI, S.
ON THE STRUCTURE OF LIQUID MERCURY
NUOVO CIM., B, V.18, P.247-P.257 (1973)
HG ..THEORY/ RADIAL DISTRIBUTION FUNCTION
- 73-FR-02 FRITSCH, G./ GEIPEL, F./ PRASETYO, A.
THE ELASTIC CONSTANTS OF SODIUM FROM 20 TO 95DC
J. PHYS. CHEM. SOLIDS, V.34, P.1961-P.1969 (1973)
NA ..EXPERIMENT/ ULTRASONIC PULSE ECHO/ ELASTIC CONSTAN
T
- 73-GE-01 GERVAIS, F.
ON THE PHONON SELF-ENERGY
SOLID STATE COMMUN., V.13, P.1211-P.1214 (1973)
THEORY-OF-SOLIDS ..QUARTZ
- 73-GI-01 GISSLER, W./ STUMP, N.
THEORY OF QUASIELASTIC NEUTRON SCATTERING BY HYDROGEN I
N METALS CONSIDERING FINITE JUMP TIMES
PHYSICA, V.65, P.109-P.117 (1973)
NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ DIFFUSION OF HYD
ROGEN IN METAL/ SCATTERING FUNCTION

- 73-HO-01 HOMNA, S./ NAGAI, K./ NAMAIZAWA, H.
GROUND-STATE ENERGY AND PHONON SPECTRA OF BCC SOLID HELIUM
PROGR. THEORET. PHYS., KYOTO, V.49, P.1779-P.1781 (1973)
HE ..THEORY/ PHONON VELOCITY AND DISPERSION/ BCC SOLID HE
- 73-HO-02 HONG, H.K./ KOPELMAN, R.
COHERENT POTENTIAL THEORY FOR INTERACTING BANDS, PHONONS AND EXCITONS IN SUBSTITUTIONALLY DISORDERED MOLECULAR CRYSTALS
J. CHEM. PHYS., V.58, P.2557-P.2568 (1973)
THEORY-OF-SOLIDS ..COHERENT POTENTIAL APPROXIMATION/ DISORDERED MOLECULAR SOLIDS/ INTERACTING BAND
- 73-II-01 IIZUMI, M.
NEUTRON SCATTERING STUDY OF THE ANHARMONIC LATTICE VIBRATIONS IN CALCIUM FLUORIDE
J. PHYS. SOC. JAP., V.35, P.204-P.212 (1973)
CA.F2 ..EXPERIMENT/ PHONON WIDTH/ TEMPERATURE EFFECT
- 73-II-02 IIZUMI, M./ GESI, K./ HARADA, J.
DISPERSION RELATION OF THE NORMAL VIBRATIONS IN STRONTIUM TITANATE
J. PHYS. SOC. LONDON, V.6, P.3021-P.3023 (1973)
SR.TI.03 ..PHONON DISPERSION
- 73-1K-01 IKEDA, H./ HIRAKAWA, K.
CRITICAL MAGNETIC SCATTERING IN K₂MN₂F₄
J. PHYS. SOC. JAP., V.35, P.617-P.617 (1973)
K₂MN₂F₄/ MAGNETIC-SCATTERING ..EXPERIMENT/ CRITICAL SCATTERING
- 73-IS-01 ISHIKAWA, Y./ ENDOH, Y./ IKEDA, S.
MAGNETIC CRITICAL SCATTERING FROM AN ITINERANT ANTIFERROMAGNET OF GAMMA Fe_{0.5}Mn_{0.5} ALLOY 1. QUASI ELASTIC SCATTERING
J. PHYS. SOC. JAP., V.35, P.1616-P.1626 (1973)
FE-MN/ MAGNETIC-SCATTERING ..EXPERIMENT/ Fe_{0.5}Mn_{0.5}/ CRITICAL MAGNETIC SCATTERING
- 73-JA-01 JACKSON, H.W.
PERTURBATIVE FORM OF S(K) FOR LIQUIDS HE-4, BASIC CALCULATION AND RESULTS
PHYS. REV. A, V.8, P.1529-P.1535 (1973)
HE ..SUPERFLUID
- 73-KA-01 KACHHAVA, C.M.
DIELECTRIC SCREENING AND PHONON DISPERSION IN ALUMINA
PHYSICA, V.65, P.63-P.72 (1973)
AL ..THEORY/ DISPERSION CURVE
- 73-KA-02 KACHHAVA, C.M.
PHONON DISPERSION IN Pb
J. PHYS. F. LONDON, V.3, P.24 (1973)
PB ..THEORY/ PHONON DISPERSION
- 73-KA-03 KACHHAVA, C.M.
PHONON DISPERSION IN Pb
J. PHYS. F. LONDON, V.3, P.24-P.29 (1973)
PB ..THEORY/ PHONON DISPERSION/ ASHCROFT MODEL PSEUDOPOENTIAL
- 73-KE-01 KEBUKAWA, T./ YAMASAKI, S./ SUNAKAWA, S.
MULTI-BRANCH STRUCTURE OF THE EXCITATION SPECTRA IN LIQUID HELIUM 2
PROGR. THEORET. PHYS., KYOTO, V.49, P.1802-P.1820 (1973)
HE ..THEORY/ LIQUID/ PHONON-ROTON DISPERSION
- 73-KE-02 KEBUKAWA, T.
THE TEMPERATURE DEPENDENCE OF PHONON VELOCITY AND ROTON MINIMUM IN LIQUID HE 2
PROGR. THEORET. PHYS., KYOTO, V.49, P.388-P.400 (1973)
HE ..THEORY/ PHONON VELOCITY/ ROTON MINIMUM/ TEMPERATURE EFFECT/ LIQUID
- 73-KE-03 KERR, W.C./ SINGWI, K.S.
NEUTRON SCATTERING BY LIQUID NEON
PHYS. REV. A, V.7, P.1043-P.1054 (1973)
NE/ NEUTRON-SCATTERING-IN-FLUIDS ..QUANTUM EFFECT ..LARGE-Q-REGION
- 73-KE-04 KESHARWANI, K.M./ AGRAWAL, B.K.
PHONON FREQUENCIES AND WIDTHS IN DILUTE CU-AU ALLOYS
PHYS. REV. B, V.7, P.5153-P.5164 (1973)
CU-AU ..THEORY/ PHONON DISPERSION/ DILUTE ALLOY/ PHONON WIDTH/ FORCE CONSTANT CHANGE
- 73-KH-01 KHENNIG, K./ SHARPOV, E.I.
THE STUDY OF NUCLEAR MAGNETISM IN VAN VLECK PARAMAGNETS USING NEUTRON SCATTERING
BNL-TR-562 (1973)
MAGNETIC-SCATTERING ..THEORY/ NUCLEAR MAGNETISM
- 73-KI-01 KIM, K./ NELKIN, M.
DYNAMIC STRUCTURE FACTOR OF A DISORDERED HARMONIC SOLID
PHYS. REV. B, V.7, P.2762-P.2771 (1973)
NEUTRON-SCATTERING-IN-SOLIDS ..DYNAMICAL STRUCTURE FACTOR/ DISORDERED SOLID/ THEORY
- 73-KN-01 KNOLL, W./ STEEB, S.

- STRUCTURE OF MOLTEN COPPER-ANTIMONY ALLOYS BY COMBINATI
ON OF NEUTRON AND X-RAY DIFFRACTION
J, PHYS. CHEM. LIQUIDS, V.4, P.39-P.60 (1973)
CU-SB ..EXPERIMENT/ RADIAL DISTRIBUTION FUNCTION/ 21 AL
LOYS
- 73-KN-02 KNOLL, W./ STEEB, S.
PARTIAL INTERFERENCE AND PAIR CORRELATION FUNCTIONS, TH
ERMOELECTRIC POWER, AND ELECTRICAL RESISTIVITY OF MOLTE
N CU-SB ALLOYS
J, PHYS. CHEM. LIQUIDS, V.4, P.27-P.38 (1973)
CU-SB ..PARTIAL INTERFERENCE FUNCTION/ PAIR CORRELATION
FUNCTION
- 73-KU-01 KUNITOMI, N./ TSUNODA, Y./ HIRAI, Y.
PHONON MODES IN MASS-DEFECT DISORDERED ALLOY NI-PT
SOLID STATE COMMUN., V.13, P.495-P.498 (1973)
NI-PT ..EXPERIMENT/ PHONON DISPERSION/ EFFECT OF MASS-D
EFECT
- 73-KU-02 KUSHWAHA, S.S.
LATTICE VIBRATIONS OF LITHIUM ON MODEL PSEUDOPOTENTIAL
PHYS. STATUS SOLIDI B, V.59, P.285 (1973)
LI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..PS
EUDOPOTENTIAL
- 73-KU-03 KUSHWAHA, S.S.
LATTICE DYNAMICS OF ANISOTROPIC HCP METALS
PHYSICA, V.64, P.625-P.628 (1973)
ZN ..THEORY/ PHONON DISPERSION/ AXIALLY SYMMETRIC MODEL
/ ION-ELECTRON INTERACTION
- 73-KU-04 KUSHWAHA, S.S.
NONCENTRAL FORCE MODEL FOR H.C.P. METALS
CAN. J. PHYS., V.51, P.616-P.623 (1973)
MG/ BE/ TL ..THEORY/ PHONON DISPERSION/ SHORT-RANGE CLO
SED-SHELL AND IONIC INTERACTION
- 73-LA-01 LAROSE, A./ VANDEWAL, J.
BIBLIOGRAPHY OF PAPERS RELEVANT TO THE SCATTERING OF TH
ERMAL NEUTRONS (1963-1972)
MC-MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA (1
973)
REVIEW-ARTICLES ..STRUCTURE ANALYSIS/ MAGNETIC STRUCTUR
E/ PHONON/ MAGNON/ POLARIZED NEUTRON/ CRITICAL PHENOMEN
A/ FLUID/ MOLECULE/ MODERATION/ INSTRUMENTATION
- 73-LA-02 LARSSON, K.E.
ROTATIONAL MOTION OF MOLECULES AND NEUTRON SCATTERING
J. CHEM. PHYS., V.59, P.4612-P.4620 (1973)
NEUTRON-SCATTERING-IN-FLUIDS ..ROTATIONAL MOTION/ MOLEC
ULE
- 73-LE-01 LEFEBVRE, J.
LONGITUDINAL PHONONS OF TRANSLATION ALONG THE 4-AXIS ON
UREA
SOLID STATE COMMUN., V.13, P.1873-P.1875 (1973)
UREA ..PHONON DISPERSION/ X-RAY EXPERIMENT
- 73-LI-01 LITZMAN, O./ ROZSA, P.
LONG-RANGE FORCES IN THE DYNAMICS OF CRYSTALS WITH DEFE
CT
PHYS. STATUS SOLIDI B, V.58, P.451 (1973)
THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..POINT DEF
ECT/ GREEN'S FUNCTION/ LOCAL MODE
- 73-LO-01 LOEFFLER, U.
INVESTIGATION OF COLLECTIVE ATOMIC MOTIONS IN LIQUID GA
LLIUM BY INELASTIC NEUTRON SCATTERING
KFK-1875 (1973)
GALLIUM ..EXPERIMENT/ SCATTERING LAW/ LIQUID/ 305.1253K
- 73-LO-02 LOGAN, K.W./ DANNER, H.R./ GAULT, J.D./ KIM, H.
LOW-FREQUENCY MOLECULAR VIBRATIONS IN SOLID N-PARAFFINS
BY NEUTRON INELASTIC SCATTERING, N-PENTANE, N-HEXANE,
N-HEPTANE, AND N-OCTANE
J. CHEM. PHYS., V.59, P.2305-P.2308 (1973)
PENTANE/ HEXANE/ HEPTANE/ OCTANE ..EXPERIMENT/ INCOHERE
NT/ T-O-F SPECTRA/ PHONON DISPERSION/ N-PARAFFINS
- 73-LO-03 LOLY, P.D.
FREQUENCY SPECTRA ON THE SC AND BCC LATTICES
PHYS. REV. B, V.8, P.4405 (1973)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ FREQUENCY SPECTRUM
- 73-LO-04 LOVESEY, S.W.
SINGLE-PARTICLE MOTION IN CLASSICAL MONATOMIC LIQUIDS
J, PHYS., C, LONDON, V.6, P.1856-P.1862 (1973)
THEORY-OF-FLUIDS/ AR ..GENERALIZED LANGEVIN EQUATION/ S
CATTERING FUNCTION
- 73-LY-01 LYNN, J.W./ SMITH, H.G./ NICKLOW, R.M.
LATTICE DYNAMICS OF GOLD
PHYS. REV. B, V.8, P.3493 (1973)
AU ..DISPERSION RELATION/ INELASTIC NEUTRON SCATTERING/
FREQUENCY DISTRIBUTION/ EXPERIMENT
- 73-MA-01 MACHIDA, M./ MURASE, C.
WAVE NUMBER DEPENDENCE OF THE RELAXATION TIME FOR THE L
ONGITUDINAL MODE IN SIMPLE LIQUID
PROGR. THEORET. PHYS., KYOTO, V.50, P.1-P.16 (1973)
THEORY-OF-FLUIDS/ AR ..SIMPLE LIQUID/ RELAXATION TIME F

- OR LONGITUDINAL MODE
- 73-MA-02 MAZENKO, G.F.
FULLY RENORMALIZED KINETIC THEORY. II. VELOCITY AUTOCORRELATION
- PHYS. REV. A, V.7, P.222-P.233 (1973)
- THEORY-OF-FLUIDS ..THEORY/ FLUID/ VELOCITY AUTOCORRELATION
- 73-MA-03 MAZENKO, G.F.
FULLY RENORMALIZED KINETIC THEORY. I. SELF-DIFFUSION
- PHYS. REV. A, V.7, P.209-P.222 (1973)
- THEORY-OF-FLUIDS ..THEORY/ FLUID/ DIFFUSION
- 73-ME-01 MEIER, P.F.
SOFT PHONONS AND THE CENTRAL MODE AT STRUCTURAL PHASE TRANSITIONS
- SOLID STATE COMMUN., V.13, P.967 (1973)
- NB3.SN/ SR.TI.O3/ THEORY-OF-SOLIDS ..THEORY/ ANHARMONICITY ..SINGULAR WIDTH GAMMA/ QUASI-PARTICLE INTERACTION/ NEAR PHASE TRANSITION
- 73-MI-01 MICHEL, K.H.
INCOHERENT NEUTRON SCATTERING AND MOLECULAR REORIENTATION IN CRYSTALS NEAR TC
- J. CHEM. PHYS., V.58, P.1143 (1973)
- N.H4.CL ..THEORY/ INCOHERENT APPROXIMATION ..XH4-TETRAHEDRON/ REORIENTATION AROUND 2 AND 3 FOLD AXIS.
- 73-MI-02 MIKKE, K./ JANKOWSKA, J.
ANOMALIES IN THE PHONON DISPERSION RELATION IN CR-Fe ALLOY BY NEUTRON SCATTERING
- PHYS. STATUS SOLIDI B, V.55K, P.1-P.4 (1973)
- CR-Fe ..EXPERIMENT/ PHONON DISPERSION/ ALLOY
- 73-MI-03 MINKIEWICZ, V.J./ KITCHENS, T.A./ SHIRANE, G./ OSGOOD, E.B.
LATTICE EXCITATIONS OF THE HE-4 QUANTUM SOLIDS
- PHYS. REV. A, V.8, P.1513-P.1528 (1973)
- HE ..DISPERSION CURVE
- 73-MI-04 MISAWA, M./ FUKUSHIMA, Y./ SUZUKI, K./ TAKEUCHI, S.
HIGH MOMENTUM TRANSFER STRUCTURE FACTOR OF LIQUID BROMINE BY T-O-F NEUTRON DIFFRACTION
- PHYS. LETT., A, V.45, P.273 (1973)
- BR/ NEUTRON-SCATTERING-IN-FLUIDS ..EXPERIMENT/ LIQUID/ T-O-F
- 73-MI-05 MITRA, S.S./ SINGH, R.S.
CHANGE OF FORCE CONSTANT AROUND A POINT DEFECT IN A SOLID
- SOLID STATE COMMUN., V.12, P.867 (1973)
- LI.H/ NA.I/ LI.F/ LI.CL/ LI.BR/ K.F/ K.CL/ K.BR/ K.I/ R.B.I ..THEORY/ LATTICE DYNAMICS/ FORCE CONSTANT ..GREEN, S. FUNCTION/ POINT DEFECT/ LOCAL MODE/ KELLERMANN CONSTANT
- 73-MI-06 MITRA, S.K.
SELF MOTION IN CLASSICAL LIQUIDS
- J. PHYS., C, LONDON, V.6, P.801-P.807 (1973)
- THEORY-OF-FLUIDS/ NA ..MEMORY FUNCTION/ SELF DIFFUSION CONSTANT
- 73-NA-01 NAKAHARA, Y.
PHYSICAL PROPERTIES OF GRAPHITE AND ITS THERMAL NEUTRON SCATTERING CHARACTERISTICS
- JAERI-M-5245 (1973)
- GRAPHITE/ REVIEW-ARTICLES ..THEORY, SCATTERING LAW/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ DISPERSION RELATION
- 73-NA-02 NAKAYAMA, T./ ODAJIMA, A.
APPLICABILITY OF A VALENCE FORCE FIELD MODEL TO THE LATTICE VIBRATIONS OF TRIGONAL SELENIUM
- J. PHYS. SOC. JAP., V.34, P.732-P.736 (1973)
- SE ..THEORY/ PHONON DISPERSION/ VALENCE FORCE FIELD/ SIX FORCE CONSTANTS
- 73-NE-01 NETO, N./ OEHLER, O./ HEXTER, R.M.
VIBRATIONAL SPECTRUM OF CRYSTALLINE IODOFORM
- J. CHEM. PHYS., V.58, P.5661-P.5672 (1973)
- ODOFORM ..THEORY/ EXPERIMENT/ DISPERSION RELATION/ LATTICE VIBRATION ..F.G-MATRIX METHOD/ INFRARED AND RAMAN SPECTRA
- 73-NI-01 NIBLER, J.W./ COOK, T.H.
VIBRATIONAL SPECTRA OF SOLID METHYLZINC BOROHYDRIDE, CH₃ZN+...BH₄⁻
- J. CHEM. PHYS., V.58, P.1596-P.1602 (1973)
- C.H3.ZN.B.H4 ..EXPERIMENT/ SOLID/ LATTICE VIBRATION ..F.G-MATRIX METHOD/ INFRARED AND RAMAN SPECTROSCOPY
- 73-NI-02 NIELSEN, M.
PHONONS IN SOLID HYDROGEN AND DEUTERIUM STUDIED BY INELASTIC COHERENT NEUTRON SCATTERING
- PHYS. REV. B, V.7, P.1626-P.1635 (1973)
- H/ D ..EXPERIMENT/ PHONON DISPERSION/ PARA-H.ORTHO-D/ TEMPERATURE,PRESSURE EFFECT
- 73-NI-03 NIIMURA, N./ FUJII, Y./ MOTEGI, H./ HOSHINO, S.
NEUTRON DIFFRACTION STUDY ON MOLECULAR LIBRATION IN SOLID D₂O
- J. PHYS. SOC. JAP., V.35, P.842-P.847 (1973)

H,CL ..EXPERIMENT/ D,CL/ MOLECULAR LIBRATION/ MEAN SQUA
RE ANGULAR DISPLACEMENT

73-NI-04 NILSSON, G./ ROLANDSON, S.
LATTICE DYNAMICS OF COPPER AT 80K
PHYS. REV. B, V.7, P.2393-P.2400 (1973)
CU ..EXPERIMENT/ PHONON DISPERSION/ 80K/ MODEL FITTING/
PHONON DENSITY

73-NI-05 NISHIYAMA, T.
DISPERSION EQUATION AND LEVEL DENSITY OF ROTONS IN LIQUID
HE
ID HE 2
PROGR. THEORET. PHYS., KYOTO, V.50, P.726-P.736 (1973)
HE ..THEORY/ LIQUID HE/ ROTON DISPERSION AND LEVEL DENSITY

73-NU-01 NUSIMOVICI, M.A./ GORRE, G.
PHONONS IN CINNABAR
PHYS. REV. B, V.8, P.1648-P.1656 (1973)
HG.S ..THEORY/ PHONON DISPERSION/ VELOCITY OF SOUND

73-OL-01 OLIVEI, A.
COLD-NEUTRON INCOHERENT SCATTERING BY HOMOGENEOUSLY ORIENTED NEMATIC LIQUID CRYSTALS
ACTA CRYSTALLOGR., SECT. A, V.29, P.692-P.701 (1973)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ NEMATIC LIQUID CRYSTAL/ QUASI-ELASTIC PEAK

73-ON-01 ONO, M.
LATTICE DYNAMICS OF METALLIC LITHIUM
J. PHYS. SOC. JAP., V.34, P.26-P.35 (1973)
LI ..THEORY/ PHONON DISPERSION/ HARTREE-FOCK EQ./ HARRISON METHOD

73-OZ-01 OZORA, A./ ITO, M./ NIIMURA, N./ WATANABE, N.
NEUTRON INELASTIC SCATTERING SPECTRA AND PHASE TRANSITION OF 1,2-DICHLOROETHANE CRYSTAL
CHEM. PHYS. LETT., V.18, P.306-P.308 (1973)
DICHLOROETHANE ..EXPERIMENT/ FREQUENCY SPECTRUM/ PHASE TRANSITION

73-PA-01 PAGE, D.I./ SAUNDERSON, D.H./ WINDSOR, C.G.
NEUTRON SCATTERING FROM SUPERCOOLED GALLIUM
J. PHYS., C, LONDON, V.6, P.212-P.222 (1973)
GA ..STRUCTURE FACTOR/ LIQUIDS ..QUASI-ELASTIC PEAK

73-PA-02 PAL, S.
LATTICE DYNAMICAL PROPERTIES OF NICKEL
CAN. J. PHYS., V.51, P.1869-P.1873 (1973)
NI ..THEORY/ PHONON DENSITY/ SHARMA-JOSHI MODEL/ SPECIFIC

IC HEAT/ DEBYE WALLER FACTOR

73-PA-03 PAL, S./ SINGH, R.B.
PHONON DISPERSION, FREQUENCY SPECTRUM AND SPECIFIC HEAT OF PALLADIUM
J. PHYS. SOC. JAP., V.35, P.1487-P.1491 (1973)
PD ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ SPECIFIC HEAT/ KREBS MODEL

73-PA-04 PALMER, B.J./ SAUNDERSON, D.H./ BATCHELDER, D.N.
PHONON FREQUENCIES IN XENON BY INELASTIC NEUTRON SCATTERING
J. PHYS., C, LONDON, V.6L, P.313-P.315 (1973)
XE ..DISPERSION CURVE ..(111)-DIRECTION

73-PA-05 PANDEY, B.P./ DAYAL, B. AND DIAMOND
LATTICE DYNAMICS OF SILICON AND DIAMOND
SI/ GE ..THEORY/ PHONON DISPERSION/ CLARK-GAZIS-WALLIS TYPE ANGULAR FORCE MODEL/ FOUR PARAMETER MODEL

73-PA-06 PATHAK, K.N./ SINGWI, K.S./ CUBIOTTI, G./ TOSI, M.
P.
COLLECTIVE MOTIONS IN CLASSICAL LIQUIDS, 3, LIQUID SODIUM
NUOVO CIM., B, V.13, P.185-P.195 (1973)
NA ..THEORY/ LIQUID/ COLLECTIVE MOTION/ STRUCTURE FACTOR/ SCATTERING FUNCTION

73-PA-07 PATHAK, K.N./ BANSAL, R.
COLLECTIVE EXCITATIONS IN CLASSICAL LIQUIDS
J. PHYS., C, LONDON, V.6, P.1989 (1973)
THEORY-OF-FLUIDS ..THEORY/ LIQUIDS/ DYNAMICAL STRUCTURE FACTOR ..HUBBARD-BEEBY THEORY

73-PE-01 PETER, H./ SKALYO, J.JR./ GRIMM, H./ LUESCHER, E./ KORPIUN, P.
ELASTIC CONSTANTS OF SOLID KRYPTON AT T=77 K DETERMINED BY INELASTIC NEUTRON SCATTERING
J. PHYS. CHEM. SOLIDS, V.34, P.255 (1973)
KR ..SOLID/ EXPERIMENT/ ELASTIC CONSTANTS/ ..COLD NEUTRON

73-PI-01 PISERI, L./ POWELL, B.M./ DOLLING, G.
LATTICE DYNAMICS OF POLYTETRAFLUOROETHYLENE
J. CHEM. PHYS., V.58, P.158-P.171 (1973)
TEFLON ..EXPERIMENT/ CALCULATION/ PHONON DISPERSION

73-PL-01 PLIHAL, M.
LATTICE DYNAMICS OF CRYSTALS OF THE CALCITE STRUCTURE
DISPERSION CURVES AND PHONON DENSITIES
PHYS. STATUS SOLIDI B, V.56, P.495-P.506 (1973)

- CA.C.03 ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ SH
ELL MODEL
- 73-PL-02 PLITHAL, M.
PHONON DISPERSION AND PHONON DENSITIES OF NA.N.03
PHYS. STATUS SOLIDI B, V.58, P.315-P.319 (1973)
- NA.N.03 ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ SP
ECIFIC HEAT
- 73-PO-01 POHL, R.O./ LOVE, W.F./ STEPHENS, R.B.
LATTICE VIBRATIONS IN NON-CRYSTALLINE SOLIDS
COO-3151-28, P.32 (1973)
- THEORY-OF-SOLIDS ..SPECIFIC HEAT/ NON-CRYSTALLINE
- 73-PO-02 POWLES, J.G.
THE STRUCTURE OF MOLECULAR LIQUIDS BY NEUTRON SCATTERIN
G
- ADVAN. PHYS., V.22, P.1-P.56 (1973)
- REVIEW-ARTICLES ..STRUCTURE/ MOLECULAR LIQUID/ EXPERIME
NT/ THEORY
- 73-PR-01 PRASAD, B./ SRIVASTAVA, R.S.
MODEL PSEUDOPOTENTIAL AND LATTICE VIBRATIONS OF ALKALIN
E EARTH METALS
- PHYS. STATUS SOLIDI B, V.57, P.743 (1973)
- BA/ SR/ CA ..THEORY/ SOLID / DISPERSION RELATION/ LATTI
CE DYNAMICS ..PSEUDOPOTENTIAL
- 73-PR-02 PRASAD, B./ SRIVASTAVA, R.S.
MODEL PSEUDOPOTENTIAL AND LATTICE DYNAMICS OF LEAD
J. PHYS., F, LONDON, V.3, P.19-P.23 (1973)
- PB ..THEORY/ PHONON DISPERSION/ MODEL POTENTIAL CALCULA
TION
- 73-PR-03 PREVOT, B./ CARABATOS, C./ SCHWAB, C./ HENNING, B.
/ MOUSSA, F.
NORMAL MODES OF VIBRATIONS IN CU.BR
SOLID STATE COMMUN., V.13, P.1725-P.1727 (1973)
- CU.BR ..DISPERSION CURVE
- 73-RA-01 RAJPUT, J.S./ KUSHWAHA, S.S.
PHONON DISPERSION RELATIONS FOR BERYLLIUM AND MAGNESIUM
J. PHYS., F, LONDON, V.3, P.1531-P.1537 (1973)
- BE/ MG ..THEORY/ PHONON DISPERSION/ KREB MODEL
- 73-RA-02 RAO, R.R./ MENON, C.S.
LATTICE DYNAMICS, THIRD-ORDER ELASTIC CONSTANTS, AND TH
ERMAL EXPANSION OF TITANIUM
- PHYS. REV. B, V.7, P.644-P.650 (1973)
- TI ..THEORY/ PHONON DISPERSION/ SOE CONSTANT/ THERMAL E
XPANSION/ KEATING-S APPROCH
- 73-RA-03 RAO, R.R./ MENON, C.S.
PHONON DISPERSION RELATIONS AND THERMAL EXPANSION OF ER
BIUM
- J. APPL. PHYS., V.44, P.3892-P.3896 (1973)
- ER ..THEORY/ PHONON DISPERSION/ KEATING METHOD/ THERMAL
EXPANSION/ PHONON DENSITIES
- 73-RA-04 RAO, R.R./ MENON, C.S.
LATTICE DYNAMICS AND ELASTIC CONSTANTS OF SANDIUM
SOLID STATE COMMUN., V.12, P.527-P.528 (1973)
- SC ..THEORY/ PHONON DISPERSION/ SECOND ORDER ELASTIC CO
NSTANT/ KEATING METHOD
- 73-RE-01 REESE, R.A./ SINHA, S.K.
PHONON SPECTRUM OF THORIUM
PHYS. REV. B, V.8, P.1332-P.1337 (1973)
- THORIUM ..EXPERIMENT/ PHONON DISPERSION/ FORCE CONSTANT
ANALYSIS/ PHONON SPECTRA/ DEBYE TEMPERATURE
- 73-RE-02 REISSLAND, J.A.
THE PHYSICS OF PHONON
JOHN WILEY AND SONS LTD (1973)
- REVIEW-ARTICLES ..BOOK
- 73-RO-01 ROSS, D.K.
INELASTIC NEUTRON SCATTERING FROM POLYCRYSTALLINE GRAPH
ITE AT TEMPERATURES UP TO 1920DC
- J. PHYS., C, LONDON, V.6, P.3525-P.3535 (1973)
- GRAPHITE ..EXPERIMENT/ T-O-F/ PHONON DISPERSION/ 20, 10
00 AND 1920DC
- 73-RO-02 ROWE, J.M./ LIVINGSTON, R.C./ RUSH, J.J.
NEUTRON QUASIELASTIC SCATTERING STUDY OF SH- REORIENTAT
ION IN THE CUBIC PHASES OF CESIUM AND RUBIDIUM HYDROSUL
FIDE
- J. CHEM. PHYS., V.58, P.5469-P.5473 (1973)
- CS.S.H/ RB.S.H ..EXPERIMENT/ QUASI-ELASTIC PEAK/ MOLECU
LAR ROTATIONS/ MEAN SQUARE DISPLACEMENT/ SIGMA (THETA/E
) ..JUMP REORIENTATION
- 73-RO-03 ROY, A.P./ DASANNACHARYA, B.A./ THAPER, C.L./ IYEN
GAR, P.K.
EXPERIMENTAL EVIDENCE OF BREAKDOWN OF SIMPLE PSEUDOPOTE
NTIAL THEORYFOR LATTICE DYNAMICS OF BERYLLIUM
PHYS. REV. LETT., V.30, P.906 (1973)
- BE ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RE
LATION
- 73-RU-01 RUPPERSBERG, H.
A NEUTRON DIFFRACTION INVESTIGATION OF LIQUID LITHIUM-L
EAD ALLOYS
- PHYS. LETT., A, V.46, P.75 (1973)

- LI-PB ..EXPERIMENT/ LIQUID/ CORRELATION FUNCTION
- 73-RU-02 RUSH, J.J./ DE-GRAFF, L.A./ LIVINGSTON, R.C.
NEUTRON SCATTERING INVESTIGATION OF THE ROTATIONAL DYNAMICS AND PHASE TRANSITIONS IN SODIUM AND CESIUM HYDROSLIFIDES
J. CHEM. PHYS., V.58, P.3439-P.3448 (1973)
- NA.S.H/ CS.S.H ..THEORY/ EXPERIMENT/ QUASI-ELASTIC PEAK / SIGMA (THETA.E) ..SH-ION LIBRATION/ REORIENTATIONAL JUMP
- 73-SA-01 SAKAMOTO, M./ IIZUMI, M./ MASAKI, N./ MOTOHASHI, H./ MINAKAWA, N./
MEASUREMENTS OF LONGITUDINAL ACOUSTIC PHONONS IN POLYETHYLENE
J. POLY. SCI., PART B, V.11, P.377-P.381 (1973)
- POLYTETRAFLUOROETHYLENE ..EXPERIMENT/ PHONON DISPERSION / PHASE TRANSITION
- 73-SA-02 SALZBERG, J.B./ SHUKLA, M.M.
DISPERSION OF PHONON WAVES IN SOLID KRYPTON
NUOVO CIM., B, V.17, P.166-P.172 (1973)
- KR ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ AXIAL SYMMETRIC MODEL
- 73-SA-03 SANGSTER, M.J.L.
INTRIONIC POTENTIALS AND FORCE CONSTANT MODELS FOR ROCK SALT STRUCTURE CRYSTALS
J. PHYS. CHEM. SOLIDS, V.34, P.355-P.369 (1973)
- MG.O/ NA.CL/ LI.F/ K.I ..INTERIONIC FORCE/ PHONON DISPERSION/ DEFORMABLE SHELL MODEL
- 73-SA-04 SARMA, B.K./ TEWARI, S.P.
SCATTERING OF NEUTRONS FROM THE ZERO-POINT VIBRATIONS OF A LATTICE AT ABSOLUTE ZERO
PHYS. LETT., A, V.45, P.481 (1973)
- NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ SOLID/ SIGMA (E, E-PRIME, THETA)/ INCOHERENT APPROXIMATION
- 73-SC-01 SCHMID, C.S./ HOELZL, K.
EXACT PHONON GREEN FUNCTION FOR KIRKWOOD'S MODEL
J. PHYS., C, LONDON, V.6, P.2401-P.2421 (1973)
- THEORY-OF-SOLIDS ..LOCALIZED MODE
- 73-SC-02 SCHÜSTER, H.G.
PHONON SPECTRAL FUNCTION OF A SUPERCONDUCTOR
SOLID STATE COMMUN., V.13, P.1559-P.1562 (1973)
- NEUTRON-SCATTERING-IN-SOLIDS ..SUPERCONDUCTOR
- 73-SE-01 SEARS, V.F.
INCOHERENT NEUTRON SCATTERING FOR LARGE MOMENTUM TRANSFER. II. QUANTUM EFFECTS AND APPLICATIONS
- PHYS. REV. A, V.7, P.340-P.348 (1973)
NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS ..THEORY/ FLUID/ SCATTERING FUNCTION
- 73-SH-01 SHAPIRO, S.M./ AXE, J.D./ SHIRANE, G./ RISTE, T.
SOME FURTHER OBSERVATIONS OF SOFT PHONON LINE SHAPES IN K.MN.F3
BNL-18053 (1973)
K.MN.F3 ..EXPERIMENT/ SOFT MODE DYNAMICS
- 73-SH-02 SHARAN, B./ KUMAR, A.
LATTICE DYNAMICAL STUDY OF INDIUM
PHYS. REV. B, V.7, P.1362-P.1367 (1973)
IN ..THEORY/ PHONON DISPERSION/ DEBYE TEMP./ ELASTIC CONSTANT
- 73-SH-03 SHARAN, B./ KUMAR, A./ NEELAKANDAN, K.
LATTICE DYNAMICS OF LITHIUM
J. PHYS., F, LONDON, V.3, P.1308-P.1312 (1973)
LI ..THEORY/ PHONON DISPERSION
- 73-SH-04 SHUKLA, M.M./ SALZBERG, J.B.
LATTICE DYNAMICS OF COPPER ON MODIFIED BHATTIA'S MODEL
PHYS. LETT., A, V.43, P.429-P.430 (1973)
CU ..THEORY/ PHONON DISPERSION/ BHATTIA MODEL
- 73-SH-05 SHUKLA, M.M./ CAVALHEIRO, R.
EXTENDED DE LAUNAY'S MODEL FOR LATTICE DYNAMICS OF FACE-CENTERED-CUBIC METALS
NUOVO CIM., B, V.16, P.63-P.84 (1973)
CU/ AG/ AL/ NI/ PD ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ FOURTH NEIGHBOURS FORCE
- 73-SH-06 SHUKLA, M.M./ SALZBERG, J.B.
DISPERSION OF PHONON WAVES IN SOLID ARGON
J. PHYS. SOC. JAP., V.35, P.996-P.999 (1973)
AR ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ AXIALLY SYMMETRIC MODEL
- 73-SH-07 SHUKLA, M.M./ CLOSS, H.
A MODEL FOR LATTICE DYNAMICS OF FCC METALS
J. PHYS., F, LONDON, V.3, P.1 (1973)
CU ..THEORY/ PHONON DISPERSION
- 73-SH-08 SHUKLA, M.M./ CLOSS, H.
A MODEL FOR LATTICE DYNAMICS OF HEXAGONAL CLOSE PACKED METALS
SOLID STATE COMMUN., V.13, P.803 (1973)
MG ..THEORY/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANT/ DISPERSION RELATION ..ELECTRON-ION INTERACTION
- 73-SH-09 SHUKLA, M.M./ SALZBERG, J.B.

- LATTICE DYNAMICS OF SODIUM ON MODIFIED BHATTIA'S MODEL
 J. PHYS., F. LONDON, V.3L, P.99-P.101 (1973)
 NA ..THEORY/ PHONON DISPERSION/ BHATTIA MODEL
- 73-SH-10 SHUKLA, M.M./ CLOSS, H.
 AN ANGULAR FORCE MODEL FOR LATTICE DYNAMICS OF FACE CENTERED CUBIC METALS
 J. PHYS., F. LONDON, V.3L, P.83-P.85 (1973)
 CU ..THEORY/ PHONON DISPERSION/ ANGULAR FORCE MODEL
- 73-SH-11 SHUKLA, M.M./ CLOSS, H.
 A MODEL FOR LATTICE DYNAMICS OF FCC METALS
 J. PHYS., F. LONDON, V.3L, P.1-P.4 (1973)
 CU ..THEORY/ PHONON DISPERSION/ LEHMAN AND KREB MODEL
- 73-SI-01 SINGH, N./ PRAKASH, S.
 PHONON FREQUENCIES AND COHESIVE ENERGIES OF COPPER, SILVER, AND GOLD
 PHYS. REV. B, V.8, P.5532-P.5544 (1973)
 CU/ AG/ AU ..THEORY/ PHONON DISPERSION
- 73-SK-01 SKOELD, K./ DAHLBORG, U.
 REORIENTATION OF THE N.H4 ION IN N.H4.CL IN PHASE 2 SOLID STATE COMMUN., V.13, P.543-P.546 (1973)
 N.H4.CL ..EXPERIMENT/ NEUTRON DIFFRACTION/ TOF/ SIGMA (TETA,E) ..STEPWISE REORIENTATION OF N.H4 ION
- 73-SM-01 SMITH, J.A.S./ TEMME, F.P./ LUDMAN, C.J./ WADDINGTON, T.C.
 NEUTRON INELASTIC SCATTERING STUDIES ON THE HYDROGEN DIHALIDES
 J. C. S. FARADAY TRANS. 2, V.10, P.1477-P.1485 (1973)
 NA.H.F2/ K.H.F2/ CS.H.CL2/ CS.H.BR ..EXPERIMENT/ MOLECULAR VIBRATION
- 73-SM-02 SMITH, J.A.S./ TEMME, F.P./ LUDMAN, C.J./ WADDINGTON, T.C.
 NEUTRON INELASTIC SCATTERING STUDIES ON THE HYDROGEN DIHALIDES
 J. C. S. FARADAY TRANS. 2, V.69, P.1477-P.1485 (1973)
 NA.H.F2/ K.H.F2/ CS.H.CL2/ CS.H.BR2 ..EXPERIMENT/ FREQUENCY SPECTRA/ TOF SPECTRA
- 73-SO-01 SOKOLOFF, J.B./ LOVELUCK, J.M.
 THEORY OF INELASTIC NEUTRON SCATTERING FROM ORIENTATIONALY DISORDERED MOLECULAR CRYSTALS, WITH PARTICULAR APPLICATION TO N.D4.BR AND N.D4.CL
 PHYS. REV., V.7, P.1644-P.1650 (1973)
 N.H4.BR/ N.H4.CL ..THEORY/ ORDER-DISORDER TRANSITION/ SIGMA (THETA,E) ..ORIENTATIONAL DISORDER
- 73-SO-02 SOMA, T.
 STATIC AND DYNAMICAL ELASTIC CONSTANTS OF SIMPLE METALS
 J. PHYS. SOC. JAP., V.36, P.1292-P.1300 (1973)
 THEORY-OF-SOLIDS ..METAL/ ELASTIC CONSTANT/ STATIC AND DYNAMICAL
- 73-SR-01 SRIVASTAVA, V./ JOSHI, S.K.
 PHONON IN DISORDERED SI-GE ALLOYS
 PHYS. REV. B, V.8, P.4671 (1973)
 GE-SI ..SPECTRAL DENSITY FUNCTION/ RAMAN SPECTRA/ THEORY
- 73-ST-01 STALLARD, J.M./ DAVIS-JR, C.M.
 LIQUID-ALUMINUM STRUCTURE FACTOR BY NEUTRON DIFFRACTION
 PHYS. REV. A, V.8, P.368-P.376 (1973)
 AL ..EXPERIMENT/ STRUCTURE FACTOR/ LIQUID METAL/ 703*10 29 DC
- 73-SW-01 SWAROOP, A./ BOHRA, B.M./ TIWARI, L.M.
 LATTICE DYNAMICS OF CALCIUM AND STRONTIUM
 PHYSICA, V.66, P.403-P.408 (1973)
 CA/ SR ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ DEBYE TEMP./ SHARMA-JOSHI MODEL
- 73-TA-01 TADDEI, G./ BONADEO, H./ MARZOCCHI, M.P./ CALIFANO, S.
 CALCULATION OF CRYSTAL VIBRATIONS OF BENZENE
 J. CHEM. PHYS., V.58, P.966 (1973)
 C6.H6 ..THEORY/ LATTICE DYNAMICS ..F AND G MATRIX METHOD
- 73-TA-02 TALWAR, D.N./ AGRAWAL, B.K.
 LATTICE DYNAMICS OF ZN-CD CHALCOGENIDES - A CRITICAL POINT ANALYSIS
 PHYS. REV. B, V.8, P.693-P.701 (1973)
 ZN.TE/ CD.TE ..CALCULATION/ SECOND-NEIGHBOR-IONIC MODEL
- 73-TE-01 TEH, H.C./ BROCKHOUSE, B.N.
 TEMPERATURE DEPENDENCE OF THE LATTICE VIBRATIONS IN N.D4.CL
 PHYS. REV. B, V.8, P.3928-P.3938 (1973)
 N.H4.CL ..LATTICE DYNAMICS/ DISPERSION CURVE
- 73-TE-02 TEMME, F.P./ WADDINGTON, T.C.
 LIBRATIONAL MOTION IN SODIUM AND LITHIUM ALUMINIUM HYDRIDES, STUDIED BY INELASTIC NEUTRON SCATTERING
 J. C. S. FARADAY TRANS. 2, V.6, P.783-P.790 (1973)
 LI-AL-H/ NA-AL-H ..EXPERIMENT/ PHONON SPECTRA/ LI-AL-H4 / NA-AL-H4

- 73-TH-01 THORPE, M.F.
EFFECT OF LOCAL ORDER ON PHONON DENSITY OF STATES
PHYS. REV. B, V.8, P.5352 (1973)
GE/ SI ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DIS
TRIBUTION ..BORN MODEL
- 73-TO-01 TOSI, M.P./ MARCH, N.H.
SMALL-ANGLE SCATTERING FROM LIQUID METALS AND ALLOYS AN
D ELECTRONIC CORRELATION FUNCTIONS
NUOVO CIM., B, V.15, P.308-P.319 (1973)
THEORY-OF-FLUIDS ..PARTIAL CORRELATION FUNCTION/ SMALL
@ REGION/ ELECTRONIC EFFELT
- 73-UP-01 UPADHYAYA, J.C./ VERMA, M.P.
PHONON DISPERSION IN YTTRIUM AND TERBIUM
J. PHYS., F, LONDON, V.3, P.1672-P.1677 (1973)
Y/ TB ..THEORY/ PHONON DISPERSION/ SHARMA-JOSHI MODEL
- 73-UP-02 UPADHYAYA, J.C./ VERMA, M.P.
DISPERSION RELATIONS IN SOME HEXAGONAL METALS
J. PHYS., F, LONDON, V.3, P.640-P.646 (1973)
BE/ MG/ HO/ TL ..THEORY/ PHONON DISPERSION/ MODIFIED SH
ARMA-JOSHI MODEL
- 73-VA-01 VAN-TRICHT, J.B./ DE-MUL, F.F.M./ WEIJERMANS, J.P.
A COLD NEUTRON SCATTERING STUDY OF DICALCIM STRONTIUM P
ROPIONATE
CHEM. PHYS. LETT., V.22, P.476-P.479 (1973)
DICALCIUM STRONTIUM PROPIONATE ..EXPERIMENT/ VIBRATION
SPECTRA/ PARA-ELECTRIC PHASE TRANSITION/ QUASI-ELASTIC
SCATTERING
- 73-VE-01 VERMA, M.P./ UPADHYAYA, J.C.
THE USE OF CENTRAL PAIR POTENTIALS IN THE LATTICE DYNAM
ICS OF YTTRIUM
Y ..THEORY/ LATTICE DYNAMICS/ SOLID ..ELASTIC CONSTANT/
ELECTRON-ION INTERACTION/ PHONON DISPERSION CURVE
- 73-VE-02 VERMA, M.P./ AGARWAL, S.K.
THREE-BODY-FORCE SHELL MODEL AND THE LATTICE DYNAMICS O
F MAGNESIUM OXIDE
PHYS. REV. B, V.8, P.4880 (1973)
MG.O ..LATTICE OYAMILS/ DISPERSION RELATION/ THEORY
- 73-VE-03 VETELINO, J.F./ NAMJOSHI, K.V./ MITRA, S.S.
LATTICE DYNAMICS OF CS.CL, CS.BR, AND CS.I
PHYS. REV. B, V.7, P.4001-P.4004 (1973)
CS.CL/ CS.BR/ CS.I ..THEORY/ PHONON DISPERSION/ MODIFIE
D-RIGID-ION MODEL
- 73-VI-01 VISSCHER, W.M.
- 73-WA-01 WARREN, J.L./ WORLTON, T.G.
SYMMETRY PROPERTIES OF THE LATTICE DYNAMICS OF TWENTY T
HREE CRYSTALS
ANL-8053 (1973)
THEORY-OF-SOLIDS ..SYMMETRY PROPERTY/ COMPUTER ANALYSIS
/ 23 CRYSTALS
- 73-WE-01 WEBER, W.
PHONON ANOMALIES IN STRONGLY COUPLED SUPERCONDUCTORS
PHYS. REV. B, V.8, P.5093 (1973)
TI.C/ ZR.C/ HF.C ..THEORY/ SOLID/ FREQUENCY DISTRIBUTIO
N/ LATTICE DYNAMICS ..SUPERCONDUCTOR/ STRONG COUPLIN TH
EORY
- 73-WE-02 WEBER, W.
LATTICE DYNAMICS OF TRANSITION-METAL CARBIDES
PHYS. REV. B, V.8, P.5082 (1973)
TI.C/ ZR.C/ V.C/ NB.C/ TA.C/ U.C ..THEORY/ LATTICE DYNA
MICS/ SOLID/ DISPERSION RELATION/ FREQUENCY DISTRIBUTIO
N ..SHELL MODEL/ DOUBLE SHELL MODEL
- 73-WI-01 WILLIS, B.T.M.
CHEMICAL APPLICATIONS OF THERMAL NEUTRON SCATTERING
HARWELL SERIES, OXFORD UNIVERSITY PRESS, ELY HOUSE
, LONDON W.1 (1973)
REVIEW-ARTICLES ..BOOK/ CHEMICAL APPLICATION/ THERMAL N
EUTRON SCATTERING
- 73-WI-02 WINFIELD, D.J./ EGELSTAFF, P.A.
SHORT RANGE TRIPLET CORRELATIONS IN KRYPTON NEAR THE CR
ITICAL POINT
CAN. J. PHYS., V.51, P.1965-P.1970 (1973)
KR/ THEORY-OF-FLUIDS ..TRIPLET CORRELATION
- 73-WO-01 WOODS, A.D.B./ SVENSSON, E.C./ MARTEL, P.
NEUTRON SCATTERING BY LIQUID HELIUM UNDER PRESSURE
PHYS. LETT., A, V.43, P.223-P.224 (1973)
HE ..SUPERFLUID/ PRESSURE EFFECT
- 73-WU-01 WU, C.K./ NICOLI, M.
LOW FREQUENCY MODES IN THE RAMAN SPECTRA OF POLYETHYLEN
E AND PARAFFINS. 1. LATTICE VIBRATIONS AND THEIR PRESSU
RE DEPENDENCE
J. CHEM. PHYS., V.58, P.5150-P.5162 (1973)
POLYETHYLENE/ PARAFFINE ..EXPERIMENT/ RAMAN SPECTRA/ PR
ESSURE EFFECT/ LATTICE MODE

- 73-WU-02 WU, C.K./ NICOL, M.
LOW FREQUENCY MODES IN THE RAMAN SPECTRA OF POLYETHYLENE
AND PARAFFINS. I. LATTICE VIBRATIONS AND THEIR PRESSURE
DEPENDENCES
CONF-730342-1 (1973)
POLYETHYLENE ..EXPERIMENT/ RAMAN SPECTR./ LOW FREQUENCY
/ PRESSURE EFFECT
- 73-YA-01 YAMADA, Y./ FUJII, Y./ HOSHINO, S./ AXE, J.D./ SHI
RANE, G.
SOFT PHONON MODES IN CS,PB,CL3
BNL 18247 (1973)
CS,PB,CL3 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE
- 74-AB-01 ABRAMO, M.C./ PARRINELLO, M./ TOSI, M.P.
DYNAMIC STRUCTURE FACTORS AND NEUTRON SCATTERING IN MOL
TEN SALTS
J. PHYS., C, LONDON, V.7, P.4201 (1974)
NA,CL ..SCATTERING THEORY/ MOLTEN SALTS
- 74-AI-01 AILAWADI, N.K./ BANERJEE, P.K./ CHOUDRY, A.
EFFECTIVE PAIR POTENTIALS FOR LIQUID NA AND LIQUID K
J. CHEM. PHYS., V.60, P.2571 (1974)
NA/ K ..EFFECTIVE PAIR POTENTIAL/ RADIAL DISTRIBUTION F
UNCTION/ LIQUID
- 74-AL-01 ALMAIRAC, R./ BENOIT, C.
LATTICE DYNAMICS OF MAGNESIUM FLUORIDE
J. PHYS., C, LONDON, V.7, P.2614-P.2629 (1974)
MG,F2 ..PHONON DISPERSION/ EXPERIMENT/ SHELL MODEL CALC
ULATION
- 74-AL-02 ALTSHULER, A./ VEKILOU, Y.K./ KADYSHEVICH, A.E./ K
USAKOV, A.P.
LATTICE DYNAMICS OF A(II)-B(VI) COMPOUNDS
FIZ, TVERD, TELA (SOV. PHYS.-SOLID STATE), V.16 (V
.16), P.2860-P.2865 (P.1852-P.1854) (1974 (1975))
THEORY-OF-SOLIDS/ ZN.S ..PHONON DISPERSION/ RIGID ION M
ODEL
- 74-AM-01 AMARAL, L.O./ FULFARO, R./ VINHAS, L.A.
MOLECULAR DYNAMICS OF TERT-BUTANOL STUDIED BY NEUTRON T
RANSMISSION
IEA-328 (1974)
BUTANOL ..EXPERIMENT/ TRANSMISSION/ MOLECULAR DYNAMICS
- 74-AN-01 ANDERSEN, H.C.
CLUSTER EXPANSIONS FOR HYDROGEN BOUNDED FLUIDS. 2 DENSE
LIQUIDS
J. CHEM. PHYS., V.61, P.4985 (1974)
THEORY-OF-FLUIDS ..PAIR CORRELATION FUNCTION FOR HYDROG
- EN BONDED LIQUIDS/ WATER
- 74-AX-01 AXE, J.D.
INELASTIC COHERENT NEUTRON SCATTERING IN AMORPHOUS SOLI
DS
BNL-19179 (1974)
NEUTRON-SCATTERING-IN-SOLIDS ..INELASTIC COHERENT SCATT
ERING/ PHONON/ AMORPHOUS SOLIDS
- 74-AX-02 AXE, J.D./ KEATING, D.T./ CARGIL, G.S./ ALBEN, R.
INELASTIC NEUTRON SCATTERING FROM AMORPHOUS GERMANIUM
BNL-18726 (1974)
GE ..EXPERIMENT/ FREQUENCY SPECTRA/ AMORPHOUS MATERIAL
- 74-BA-01 BARKER, M.I./ GASKELL, T.
PROPAGATION OF DENSITY FLUCTUATIONS IN LIQUID METALS
J. PHYS., C, LONDON, V.7L, P.293-P.298 (1974)
NEUTRON-SCATTERING-IN-FLUIDS/ RB ..TRIPLE-PEAKS
- 74-BA-02 BARRON, T.H.K./ GIBBONS, T.G.
QUASIHARMONIC LATTICE DYNAMICS OF BRAVAIS LATTICES; III
. THERMAL EXPANSION OF A RHOMBOHEDRAL LATTICE
J. PHYS., C, LONDON, V.7, P.3287 (1974)
THEORY-OF-SOLIDS ..THERMAL-EXPANSION ..QUASIHARMONIC-LA
TTICE
- 74-BA-03 BARRON, T.H.K./ GIBBONS, T.G.
QUASIHARMONIC LATTICE DYNAMICS OF BRAVAIS LATTICES; I.
MECHANISMS IN CENTRAL FORCE MODELS
J. PHYS., C, LONDON, V.7, P.3260-P.3268 (1974)
THEORY-OF-SOLIDS ..DISPERSION-CURVES ..QUASIHARMONIC-LA
TTICE/
- 74-BA-04 BARRON, Y.H.K./ GIBBONS, T.G.
QUASIHARMONIC LATTICE DYNAMICS OF BRAVAIS LATTICES; II.
RHOMBOHEDRAL LATTICE WITH SHORT-RANGE CENTRAL FORCES
J. PHYS., C, LONDON, V.7, P.3269-P.3286 (1974)
THEORY-OF-SOLIDS ..DISPERSION-CURVES ..QUASIHARMONIC-LA
TTICE
- 74-BA-05 BATA, L./ VIZI, I./ KUELER, S.
INTERPRETATION OF THE QUASI-ELASTIC NEUTRON SCATTERING
ON PAA BY ROTATIONAL DIFFUSION MODELS
KFKI-74-75 (1974)
P-AZOXYANISOLE ..EXPERIMENT/ LIQUID CRYSTAL PHASE/ QUAS
I-ELASTIC SPECTRUM/ ROTATIONAL DIFFUSION MODEL
- 74-BE-01 BEDEAUX, D./ MAZUR, P.
BROWNIAN MOTION AND FLUCTUATING HYDRODYNAMICS
PHYSICA, V.76, P.247-P.258 (1974)
THEORY-OF-FLUIDS ..BROWNIAN-MOTION

- 74-BE-02 BETSUYAKU, H./ HAMAGUCHI, Y.
NEUTRON SCATTERING INVESTIGATION OF MAGNETIC EXCITATION
IN K₂MnF₃
J. PHYS. SOC. JAP., V.37, P.975-P.982 (1974)
K₂MnF₃/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNETIC SCAT-
TERING FUNCTION/ 3,4IN
- 74-BJ-01 BICKERMAN, A./ BIEM, W./ MERTENS, F.G.
INCOHERENT NEUTRON SCATTEKING BY THE PHONON-VIBRATION S
YSTEM IN SOLID ORTHO-HYDROGEN
Z. PHYS., V.267, P.31-P.39 (1974)
HYDROGEN ..THEORY/ SOLID ORTHO-HYDROGEN/ PHONON DISPERS
ION AND SPECTRA/ SCATTERING FUNCTION
- 74-BJ-02 BIRGENEAU, R.J./ KJEMS, J.K./ SHIRANE, G./ VAN-UIT
ERT, L.G.
COOPERATIVE JAHN-TELLER PHASE TRANSITION IN PR₂AL₃O₇
PHYS. REV. B, V.10, P.2512-P.2534 (1974)
PR₂AL₃O₇ ..JAHN-TELLER/ STRUCTURAL-PHASE-TRANSITION
- 74-BL-01 BLINC, R./ LUGOMER, S./ ZEK, B.
SOFT-MODE DYNAMICS IN NEMATIC LIQUID CRYSTALS
PHYS. REV. A, V.9, P.2214 (1974)
THEORY-OF-FLUIDS ..NEMATIC LIQUID CRYSTAL
- 74-BO-01 BOETTGER, H.
VIBRATIONAL PROPERTIES OF NON-CRYSTALLINE SOLIDS
PHYS. STATUS SOLIDI B, V.62, P.9-P.42 (1974)
REVIEW-ARTICLES ..VIBRATIONAL PROPERTIES/ NON-CRYSTALLI
NE SOLIDS/ IR. RAMAN SPECTRA/ NEUTRON SCATTERING/ SPECI
FIC HEAT
- 74-BO-02 BORSTNIK, B./ AZMAN, A.
THE VIBRATIONAL SPECTRUM OF THE DISORDERED HYDROGEN BON
DED CHAIN
CHEM. PHYS. LETT., V.26, P.56-P.60 (1974)
THEORY-OF-SOLIDS ..FREQUENCY SPECTRA/ HYDROGEN BOND/ DI
SORDERED CHAIN
- 74-BR-01 BRENNAN, M./ HUTCHINSON, P./ SANGSTER, M.J.L./ SCH
OFIELD, P.
CALLULATION OF EFFECTIVE PAIR INTERACTION POTENTIAL
FOR LIQUID NEON FROM STRUCTURE FACTOR MEASUREMENTS
J. PHYS., C, LONDON, V.7L, P.411 (1974)
NEON ..PAIR-DISTRIBUTION FUNCTION
- 74-BR-02 BREUER, N.
DETERMINATION OF THE PHONON SPECTRUM FROM COHERENT NEUT
RON SCATTERING BY POLYCRYSTALS
Z. PHYS., V.271, P.289 (1974)
AL ..COHERENT NEUTRON SCATTERING/ POLYCRYSTAL
- 74-BR-03 BROOKS, J.S./ DONNELLY, R.J.
INFLUENCE OF PHONON DISPERSION ON THE VELOCITY OF SECON
D SOUND IN HE-2
PHYS. REV. A, V.9, P.1444-P.1445 (1974)
THEORY-OF-FLUIDS/ HE ..SECOND SOUND
- 74-BU-01 BURKHARD, H./ GEICK, R./ KAESTNER, P./ UNKELBACH,
K.H.
LATTICE VIBRATIONS AND FREE CARRIER DISPERSION IN Pb₂Se
PHYS. STATUS SOLIDI, V.63, P.89 (1974)
Pb₂Se ..EXPERIMENT ..KRAMERS-KRONIG ANALYSIS/ PHONON-PL
ASMON INTERACTION
- 74-BU-02 BUYERS, W.J.L./ SEARS, V.F./ LONNGI, P.A./ LONNGI,
D.A.
NEUTRON SCATTERING DATA FOR LIQUID NEON
AECL-4910 (1974)
NE ..EXPERIMENT/ S(0,OMEGA) COMPILATION
- 74-CA-01 CARLILE, C.J./ ROSS, D.K.
AN EXPERIMENTAL VERIFICATION OF CHUDLEY-ELLIOT MODEL FO
R THE DIFFUSION OF HYDROGEN IN ALPHA-PHASE Pd₂H
SOLID STATE COMMUN., V.15, P.1923 (1974)
Pd-H ..EXPERIMENT/ SOLID/ SCATTERING LAW ..CHUDLEY-ELLI
OT MODEL/ JUMP-DIFFUSION MODEL
- 74-CA-02 CARNEIRO, K.C.
THE DYNAMICS OF LIQUID HYDROGEN AND LIQUID NITROGEN STU
DIED BY INELASTIC NEUTRON SCATTERING
RISO REPORT NO.308 (1974)
H2/ N2 ..EXPERIMENT/ PHONON LIKE EXCITATION/ LIQUID DYN
AMICS
- 74-CA-03 CATALIOTTI, R.
PHONON SPECTRUM AND PHONON INTERACTIONS IN CORUNDUM
J. PHYS., C, LONDON, V.7, P.3467-P.3472 (1974)
CORUNDUM ..PHONON-SPECTRUM
- 74-CH-01 CHALDLER, D.
TRANSLATIONAL AND ROTATIONAL DIFFUSION IN LIQUID II. OR
IENTATIONAL SINGLE PARTICLE CORRELATION
J. CHEM. PHYS., V.60, P.3506 (1974)
THEORY-OF-FLUIDS ..DYNAMICS OF LIQUID
- 74-CH-02 CHAUDLER, D.
TRANSLATIONAL AND ROTATIONAL DIFFUSION IN LIQUIDS I. T
RANSLATIONAL SINGLE-PARTICLE CORRELATION
J. CHEM. PHYS., V.60, P.3500 (1974)
THEORY-OF-FLUIDS ..DYNAMICS OF LIQUID
- 74-CH-03 CHESSER, N.J./ AXE, J.D.
LATTICE DYNAMICS OF ZINC PHONON STRUCTURE FACTORS

- PHYS. REV. B, V.9, P.4060 (1974)
 ZN ..THEORY/ EXPERIMENT/ BORN-VON KARMAN MODEL/ DISPERS
 ION RELATION/ FREQUENCY DISTRIBUTION/ CONSTANT-0 METHOD
- 74-CH-04 CHEVYCHELOV, A.D./ LIFSHITS, I.L.
 PHENOMENOLOGICAL FORCE MODEL FOR A LATTICE FROM EXPERIM
 ENTAL PHONON SPECTRA APPROPRIATE TO LATTICE-DISTORTION B
 Y POINT DEFECTS
 PHYS. STATUS SOLIDI B, V.65, P.93 (1974)
 THEORY-OF-SOLIDS ..POINT-DEFECTS/ LATTICE-DISTORTION/ V
 ACANCY.
- 74-CH-05 CHUI, G.T.
 PHONONS, SADDLE POINTS, AND RESONANCE IN NB
 PHYS. REV. B, V.9, P.3300 (1974)
 NB ..DISPERSION RELATION
- 74-CH-06 CHUNG, C.H./ YIP, S.
 SOUND DISPERSION IN SIMPLE LIQUIDS
 PHYS. LETT., A, V.50, P.175 (1974)
 AR ..TEORY/ LIQUID ..LONGITUDINAL CURRENT CORRELATION F
 UNCTION
- 74-CO-01 COHEN, S.S./ KLEIN, M.L.
 INTERATOMIC POTENTIALS AND PHONON SPECTRA OF DILUTE RAR
 E-GAS MIXTURES
 J. CHEM. PHYS., V.61, P.3210 (1974)
 THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ FRE
 QUENCY SPECTRUM ..IMPURITY/ METAL/ RARE-GAS
- 74-CO-02 COHEN, S.S.
 PHONON SELF-ENERGY IN SOME SYMMETRY DIRECTIONS OF A DIL
 UTE FCC ALLOY
 PHYS. REV. B, V.10, P.384 (1974)
 CU-AU ..THEORY/ FREQUENCY DISTRIBUTION ..COHERENT NEUTR
 ON SCATTERING/ PHONON SELF-ENERGY AND SHIFT/ LATTICE GR
 EEN FUNCTION/ IMPURITIES
- 74-CO-03 COPLEY, J.R.D./ ROWE, J.M.
 SHORT-WAVELENGTH COLLECTIVE EXCITATIONS IN RUBIDIUM OBS
 ERVED BY COHERENT NEUTRON SCATTERING
 PHYS. REV. LETT., V.32, P.49-P.52 (1974)
 RB/ NEUTRON-SCATTERING-IN-FLUIDS ..DISPERSION CURVE/ ZE
 RO SOUND/ LIQUID
- 74-CO-04 COPLEY, J.R.D./ ROWE, J.M.
 DENSITY FLUCTUATIONS IN LIQUID RUBIDIUM I. NEUTRON SCAT
 TERING MEASUREMENTS
 PHYS. REV. A, V.9, P.1656 (1974)
 RB ..SCATTERIN LAW/ COHERENT SCATTEKING/ EXPERIMENT
- 74-CO-05 COWLEY, E.R.
 A BORN-VON KARMAN FORCE CONSTANT MODEL FOR ALUMINUM
 CAN, J. PHYS., V.52, P.1714-P.1715 (1974)
 AL ..CALCULATION/ FREQUENCY SPECTRA/ BORN-VON KARMAN MO
 DEL
- 74-CO-06 COWLEY, E.R./ SHUKLA, R.C.
 COMPARISON OF THEORIES OF ANHARMONISITY APPLIED TO MODE
 L OF COPPER
 PHYS. REV. B, V.9, P.1261 (1974)
 CU ..ANHARMONICITY/ THERMODYNAMIC QUANTITIES
- 74-CR-01 CRAN, G.C./ SANGSTER, M.J.L.
 LATTICE DYNAMICS OF MANGANESE FLUORIDE
 J. PHYS., C, LONDON, V.7, P.1937 (1974)
 MN,F2 ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/
 FREQUENCY DISTRIBUTION ..SHELL MODEL
- 74-CU-01 CURRAT, R./ COMES, R./ DORNER, B./ WIESENDANGER, E
 INELASTIC NEUTRON SCATTERING IN ORTHORHOMBIC K,NB,03
 J. PHYS., C, LONDON, V.7, P.2521-P.2539 (1974)
 K,NB,03/ PHASE-TRANSITION ..EXPERIMENT/ PHONON DISPERSI
 ON/ SOFT MODE
- 74-DA-01 DA-CUNHA-LIMA, I.C./ BRESCANSIN, L.M./ SHUKLA, M.M
 LATTICE DYNAMICS OF ALKALI METALS
 PHYSICA, V.72, P.179 (1974)
 K/ LI/ RB ..PHONON DISPERSION RELATION/ KREBS MODEL
- 74-DE-01 DENLEY, D./ RICE, S.A.
 A MODEL CALCULATION OF THE INTRAMOLECULAR VIBRATION SPE
 CTRUM OF LIQUID WATER
 J. AMER. CHEM. SOC., V.96, P.4369-P.4374 (1974)
 H2,O ..THEORY/ LIQUID WATER/ FREQUENCY SPECTRA
- 74-DO-01 DORNER, B./ FELDMANN, K./ HENNIG, K./ URWANK, P./
 WEISS, L.
 PHONON DISPERSION CURVES IN MG,ZN2
 PHYS. STATUS SOLIDI B, V.63K, P.135 (1974)
 MG-ZN ..THEORY/ DISPERSION RELATION/ CONSTANT-0 METHOD/
 MG-ZN2
- 74-DU-01 DUROCHER, D./ DARAIN, P.B.
 PHONON DENSITY OF STATES AND THE VIBRONIC SPECTRA OF IM
 PURITIES IN K2,PT,CL6-TYPE SINGLE CRYSTAL
 J. CHEM. PHYS., V.61, P.1361-P.1368 (1974)
 K2,RE,CL6 ..DENSITY-OF-STATES/ CALCULATION
- 74-EB-01 EBBSJOE, I./ SCHOFIELD, P./ SKOELD, K./ WALLER, I.
 DIFFUSION IN LIQUID MIXTURES OF ISOTOPES

- J. PHYS., C, LONDON, V.7, P.3891 (1974)
THEORY-OF-FLUIDS ..THEORY/ LIQUID/ VELOCITY AUTO-CORRELATION FUNCTION ..PERTURBATION THEORY/ HYDRODYNAMICS
- 74-EG-01 EGELSTAFF, P.A./ GRAHAM, W.G./ HAHN, L./ SUZUKI, K.
.. WINFIELD, D.J.
A ROTATING CRYSTAL TIME OF FLIGHT SPECTROMETER USING A PULSED NEUTRON SOURCE
CAN, J. PHYS., V.52, P.2093-P.2107 (1974)
MISCELLANEOUS
- 74-ES-01 ESCHRIG, H./ VAN-LOYEN, L./ ZIESCHE, P.
ON THE DETERMINATION OF THE PHONON DENSITY OF STATES BY MEANS OF COHERENT INELASTIC SCATTERING OF NEUTRONS ON POLYCRYSTALLINE SAMPLES
PHYS, STATUS SOLIDI B, V.66, P.587 (1974)
MG ..PHONON DENSITY OF STATE
- 74-ET-01 ETCHEPARE, J./ MERIAN, M./ SMETANKINE, L.
VIBRATIONAL NORMAL MODES OF SiO₂, I, ALPHA AND BETA QUARTZ
J. CHEM. PHYS., V.60, P.1873-P.1876 (1974)
SI-02 ..THEORY/ NORMAL MODE/ COMPARED TO OPTICAL DATA
- 74-FI-01 FISCHER, K.
LATTICE DYNAMICS AND ANHARMONIC EFFECTS IN Ag₂Cl₂
PHYS, STATUS SOLIDI B, V.66, P.295 (1974)
AG-CL ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ ANHARMONICITY/ FREQUENCY SPECTRUM ..SHELL MODEL
- 74-FI-02 FIXMAN, M./ KOVAC, J.
DYNAMICS OF STIFF CHAINS. II. FREELY JOINTED CHAIN
J. CHEM. PHYS., V.61, P.4950 (1974)
THEORY-OF-FLUIDS ..THEORY/ MOLECULAR DYNAMICS
- 74-FI-03 FIXMAN, M./ KOVAC, J.
DYNAMICS OF STIFF POLYMER CHAINS. I
J. CHEM. PHYS., V.61, P.4939 (1974)
THEORY-OF-FLUIDS ..THEORY/ MOLECULAR DYNAMICS
- 74-FR-01 FRANK, I.M.
ABSORPTION AND REFLECTION OF ULTRACOLD NEUTRON
BNL-TR-567 (1974)
SCATTERING-THEORIES ..ULTRACOLD NEUTRON
- 74-FU-01 FUJII, Y./ LURIE, N.A./ PLYNN, R./ SHIRANE, G.
INELASTIC NEUTRON SCATTERING FROM SOLID 36Ar
PHYS. REV. B, V.10, P.3647 (1974)
AR ..EXPERIMENT/ SOLID/ DISPERSION RELATION/ TRIPLE AXIS NEUTRON SPECTROMETER/ FREQUENCY SPECTRUM
- 74-FU-02 FULFARO, R./ WALDER, V.S./ VINHAS, L.A./ AMARAL, L.
..THEORY/ LIQUID/ VELOCITY AUTO-CORRELATION FUNCTION ..PERTURBATION THEORY/ HYDRODYNAMICS
- 74-GA-01 GAMBETTI, L./ MENZINGER, F./ SACCHETTI, F.
PHONONS IN THE EQUIATOMIC CO NI ALLOY
RT/FI-(74)48 (PHYS. LETT. 49A, 327-328, 1974) (1974)
CO-NI ..EXPERIMENT/ PHONON DISPERSION/ ALLOY/ FCC
- 74-GH-01 GHOSH, A./ BASU, A.N./ SENGUPTA, S.
LATTICE DYNAMICS OF THE Na₂F CRYSTAL
PROC. ROY. SOC., LONDON, SER. A, V.340, P.199-P.211 (1974)
NA₂F ..DISPERSION-CURVES/ DENSITY-OF-STATES/ THEORY
- 74-GL-01 GLINKA, C.J./ MINKIEWICZ, V.J./ PASSELL, L.
SMALL-ANGLE NEUTRON SCATTERING FROM COBALT IN THE CRITICAL REGION
BNL-19545 (1974)
MAGNETIC-SCATTERING ..SMALL ANGLE SCATTERING/ CRITICAL SCATTERING/ MAGNON
- 74-GO-01 GOEL, C.M./ PANDEY, B.P./ DAYAL, B.
LATTICE DYNAMICS OF SOME TRANSITION METALS BY AN ELASTIC FORCE MODEL
PHYS. STATUS SOLIDI B, V.66, P.759 (1974)
AG/ PD/ PT ..PHONON DISPERSION RELATION
- 74-GO-02 GOEL, G.M./ PANDAY, B.P./ DAYAL, B.
PHONON DISPERSION RELATIONS IN COPPER AND SILVER BY A MODIFIED SHARMA-JOSHI MODEL
PHYS. STATUS SOLIDI B, V.63, P.625 (1974)
CU/ AG ..THEORY/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANT/ DISPERSION RELATION ..ELECTRON-ION INTERACTION
- 74-GR-01 GRAF, E.H./ MINKIEWICZ, V.J./ MOELLER, H.B./ PASSELL, L.
NEUTRON-SCATTERING STUDY OF COLLECTIVE EXCITATIONS IN SUPERFLUID HELIUM
PHYS. REV. A, V.10, P.1748 (1974)

- HE ..EXPERIMENT/ INELASTIC NEUTRON SCATTERING/ SOLIDS/
SCATTERING LAW/ DISPERSION RELATION/ DEBYE MODEL
- 74-GR-02 GROUT, P.J./ LEECH, J.W.
THE LATTICE DYNAMICS OF CRYSTALLINE HYDROGEN CHLORIDE I
N ITS LOW-TEMPERATURE PHASE
J. PHYS., C, LONDON, V.7, P.3245-P.3259 (1974)
H.CL ..DISPERSION-CURVES/ THEORY
- 74-GR-03 GRUNEWALD, G./ SHARNBERG, K.
LIFETIMES OF LONG WAVELENGTH LONGITUDINAL PHONONS IN IM
PURE METALS
Z. PHYS., V.268, P.197 (1974)
THEORY-OF-SOLIDS ..THEORY/ LIFE TIME/ ..ELECTRON-PHONON
INTERACTION/ IMPURITIES/ PHONON GREEN FUNCTION
- 74-GU-01 GURTA, H.N.
PHONON DISPERSION RELATIONS AND TWO-PHONON RAMAN SPECTR
A OF CESIUM FLUORIDE
PHYS. STATUS SOLIDI B, V.61, P.681 (1974)
CS,F ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..T
HREE-BODY FORCE SHELL MODEL
- 74-GU-02 GUSSONI, M./ ZERBI, G.
LATTICE DYNAMICS OF MIXED CRYSTALS HCL-DCL
J. CHEM. PHYS., V.60, P.4862 (1974)
H.CL ..THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBU
TION ..F-G MATRIX METHOD
- 74-HA-01 HAFNER, J./ SCHMUCK, P.
LATTICE DYNAMICS OF ALUMINUM AN INVESTIGATION OF EXCHANG
E AND CORRELATION EFFECTS
PHYS. REV. B, V.9, P.4138 (1974)
AL ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ KOH
N EFFECT
- 74-HA-02 HALLMAN, E.D.
CRYSTAL DYNAMICS OF THE ALLOY CU₃AU
CAN, J. PHYS., V.52, P.2235 (1974)
CU-AU ..EXPERIMENT/ SOLID/ DISPERSION RELATION/ LATTICE
DYNAMICS/ BORN-VON KARMAN MODEL ..ALLOY
- 74-HA-03 HAMILTON, W.C./ LASSIER, B./ KAY, M.I.
THE PHONON SPECTRA OF TRIGONAL SELENIUM AT 77 AND 298K
J. PHYS. CHEM. SOLIDS, V.35, P.1089 (1974)
SE ..EXPERIMENT/ DISPERSION RELATION/ INTERATOMIC FORCE
CONSTANT ..THREE-AXIS-SPECTROMETER
- 74-HA-04 HARA, H./ HONDA, T.
MULTIPLE SCATTERING OF SLOW NEUTRONS BY STATISTICAL MED
IA
PROGR. THEORET. PHYS., KYOTO, V.52, P.68-P.83 (1974)
- 4)
SCATTERING-THEORIES ..SCATTERING FUNCTION/ CORRECTION O
F MULTIPLE SCATTERING
- 74-HA-05 HASEGAWA, M./ WATABE, M.
THEORY OF THERMODYNAMIC PROPERTIES OF LIQUID METALS
J. PHYS. SOC. JAP., V.36, P.1510-P.1515 (1974)
THEORY-OF-FLUIDS/ NA/ K ..LIQUID METAL/ ELECTRON THEORY
/ STRUCTURE FACTOR/ THERMAL EXPANSION
- 74-HE-01 HEER, H./ FURRER, A./ WALKER, E./ TREYVAUD, A./ PU
RWINS, H.G./
NEUTRON CRYSTAL FIELD SPECTROSCOPY AND SUSCEPTIBILITY I
N ER(C)-Y(L-C)-AL₂
J. PHYS., C, LONDON, V.72, P.1207 (1974)
ER-Y-AL/ MAGNETIC-SCATTERING ..INELASTIC NEUTRON SCATTE
RING/ SUSCEPTIBILITY
- 74-HO-01 HOLAH, G.D./ WEBB, J.S./ MONTGOMERY, H.
LATTICE DYNAMICS OF AG.GA.S₂
J. PHYS., C, LONDON, V.7, P.3875 (1974)
AG.GA.S₂ ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSI
ON RELATION
- 74-HO-02 HOROVITZ, B./ WEGER, M.
PHONON DISPERSION AND INSTABILITY IN LINEAR-CHAIN CRYST
ALS
PHYS. REV. B, V.9, P.1246 (1974)
THEORY-OF-SOLIDS ..PHONON DISPERSION/ CHAIN CRYSTAL
- 74-HU-01 HUTCHINGS, M.T.
THE USE OF INELASTIC NEUTRON SCATTERING TO DETERMINE TH
E ELECTRONIC STATES OF INORGANIC MATERIALS
AERE-R-7909 (1974)
REVIEW-ARTICLES/ MAGNETIC-SCATTERING ..MAGNETIC INELAST
IC SCATTERING/ MAGNON/ EXCITONS/ INORGANIC COMPOUND
- 74-IA-01 IACHELLO, F./ RASETTI, M.
SEMI-PHENOMENOLOGICAL FITS TO THE PHONON DISPERSION CUR
VE IN LIQUID HE-2
PHYS. LETT., A, V.49, P.149-P.150 (1974)
HE ..THEORY/ PHONON DISPERSION
- 74-IK-01 IKEDA, N.
NEUTRON SCATTERING STUDY OF CRITICAL PHENOMENA IN RESTR
ICTED-DIMENSIONAL MAGNETS -UNIVERSALITY AND SCALING-
J. PHYS. SOC. JAP., V.37, P.660-P.666 (1974)
K₂CO₃/ K₂CU₃F₄/ K₂CU₃F₃/ K₂MN₃F₄/ MAGNETIC-SCATTER
ING ..EXPERIMENT/ CRITICAL SCATTERING
- 74-IN-01 INOUE, K./ KIYANAGI, Y.
SLOW NEUTRON SCATTERING FORM FACTOR FROM ONE-DIMENSIONA

- L ROTOR
 J. NUCL. SCI., TECHNOL., TOKYO, V.11, P.162-P.164 (1974)
 N.H4.CL/ N.H4.BR/ N.H4.I ..CALCULATION/ SCATTERING FORM FACTOR/ ONE-DIMENSIONAL ROTOR
- 74-10-01 IOSILEVSKII, X.
 THE SPECTRAL DISTRIBUTION OF ACOUSTICAL PHONONS IN A PLATE
 PHYS. STATUS SOLIDI B, V.64, P.431-P.439 (1974)
 THEORY-OF-SOLIDS ..SPECTRAL DISTRIBUTION/ PLATE/ EFFECT OF SURFACE
- 74-15-01 ISHIKAWA, Y./ NODA, Y.
 NEUTRON SPIN-WAVE SCATTERING FROM A HEUSLER ALLOY PD₂MN₅SN
 N.SN
 SOLID STATE COMMUN., V.15, P.833-P.836 (1974)
 PD-MN-SN/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION
- 74-JA-01 JAIN, S.C./ JAIN, M.
 A GENERAL LOCAL MODEL PSEUDOPOTENTIAL FOR SIMPLE METALS. BINDING ENERGY AND COMPRESSIBILITY
 PHYSICA, V.71, P.437-P.447 (1974)
 THEORY-OF-SOLIDS ..THEORY/ PSEUDOPOTENTIAL FORM FACTOR/ SIMPLE METALS
- 74-JO-01 JOHNSON, F.A.
 A BOND CHARGE MODEL OF LATTICE DYNAMICS, I
 PROC. ROY. SOC., LONDON, SER. A, V.339, P.73-P.83 (1974)
 THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ BOND CHARGE MODEL
- 74-JO-02 JOHNSON, F.A./ MOORE, K.
 A BOND CHARGE MODEL OF LATTICE DYNAMICS, II
 PROC. ROY. SOC., LONDON, SER. A, V.339, P.85-P.96 (1974)
 THEORY-OF-SOLIDS/ DIAMOND/ SI ..PHONON DISPERSION/ BOND CHARGE MODEL
- 74-JO-03 JOHNSON, M.W.
 DESCUS, A COMPUTER PROGRAM FOR THE CALCULATION OF MULTIPLE SCATTERING EFFECTS IN INELASTIC NEUTRON SCATTERING EXPERIMENT
 AERE-R-7682 (1974)
 COMPUTER-CODES ..MULTIPLE SCATTERING CORRECTION/ INELASTIC SCATTERING
- 74-JO-04 JORDAN, P.C.
 THEORY OF SELF-DIFFUSION IN LIQUIDS
 PHYS. REV. A, V.10, P.319 (1974)
 AR/ THEORY-OF-FLUIDS ..THEORY/ LIQUID/ CORRELATION FUNCTION
- TION ..DIFFUSION COEFFICIENT
- 74-KA-01 KAMITAKAHARA, W.A./ BROCKHOUSE, B.N.
 VIBRATIONS OF A MIXED CRYSTAL, NEUTRON SCATTERING FROM NI₅₅-PD₄₅
 PHYS. REV. B, V.10, P.1200-P.1212 (1974)
 NI-PD ..EXPERIMENT/ PHONON DISPERSION/ WIDTH/ DISORDERED ALLOY/ FCC/ NI₅₅-PD₄₅
- 74-KA-02 KANNEY, L.B./ HORTON, G.K.
 PHONON DISPERSION IN XE
 SOLID STATE COMMUN., V.15, P.1307-P.1308 (1974)
 XE ..DISPERSION-CURVES ..THEORY/ MIE-LENNARD-JONES-POTENTIAL
- 74-KA-03 KANZAKI, H./ SAKURAGI, S./ HOSHINO, S./ SHIRANE, G./ FUJII, Y.
 NEUTRON SCATTERING OF PHONONS ASSOCIATED WITH INDIRECT BAND-GAP TRANSITION IN AG₂BR
 SOLID STATE COMMUN., V.15, P.1547-P.1550 (1974)
 AG₂BR ..DISPERSION-CURVES ..(111)-DIRECTION
- 74-KA-04 KAPLAN, T./ MOSTOLLER, M.
 LOCAL MODES IN AL_{0.1}CU_{0.9} AND (N₁H₄)_{0.1}CO_{0.9}CL IN THE COHERENT-POTENTIAL APPROXIMATION
 PHYS. REV. B, V.9, P.353-P.359 (1974)
 CU-AL/ N₁H₄CL-K₁CL ..CALCULATIONS/ COHERENT-POTENTIAL APPROXIMATION/ PHONON DENSITY OF STATES
- 74-KA-05 KAUR, M./ KUSHWAHA, S.S.
 ON PHENOMENOLOGICAL MODELS OF LATTICE DYNAMICS
 SOLID STATE COMMUN., V.14, P.307-P.308 (1974)
 SC ..THEORY/ PHONON DISPERSION
- 74-KH-01 KHANNA, S.N./ UPADHYAY, J.C./ JAIN, A.
 LATTICE DYNAMICS OF GOLD
 PHYS. STATUS SOLIDI B, V.69K, P.25 (1974)
 AU ..DISPERSION-CURVES
- 74-KJ-01 KJEMES, J.K./ PASSELL, L./ TAUB, H.
 NEUTRON SCATTERING FROM NITROGEN ADSORBED ON BASAL-PLANE-ORIENTED GRAPHITE
 PHYS. REV. LETT., V.32, P.724-P.727 (1974)
 N-GRAPHITE ..EXPERIMENT/ NEUTRON DIFFRACTION/ NITROGEN ADSORBED
- 74-KO-01 KOESTER, L./ KNOPF, K./ WASCHKOWSKI, W.
 THE SCATTERING OF SLOW NEUTRONS BY COBALT
 Z. PHYS., V.271, P.201 (1974)
 CO ..SCATTERING AMPLITUDE
- 74-KO-02 KOHGI, M./ ISHIKAWA, Y./ HARADA, I./ MOTIZUKI, K.

SPIN WAVES IN MANGANESE MONOXIDE
 J. PHYS. SOC. JAP., V.36, P.112-P.122 (1974)
 MN.OF MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSI
 ON/ 4.2DK TO 117DK/ THEORY/ MAGNON DENSITY OF STATES

74-KR-01 KRESS, W.
 CALCULATION OF PHONON DISPERSION CURVES AND MODE GRUNEI
 SEN PARAMETER IN RB.I
 PHYS. STATUS SOLIDI B, V.62, P.403-P.416 (1974)
 RB.I ..THEORY/ PHONON DISPERSION/ GRUNEISEN CONSTANT/
 BREATHING SHELL MODEL

74-KU-01 KUENER, D.H.
 LATTICE DYNAMICS IN TERMS OF LOCALIZED ORBITALS
 PHYS. REV. B, V.9, P.1792 (1974)
 THEORY-OF-SOLIDS ..LATTICE DYNAMICS

74-KU-02 KURIHARA, Y./ KURODA, Y./ ISHIMURA, N.
 THEORY OF QUANTUM CRYSTAL
 PROGR. THEORET. PHYS., KYOTO, V.51, P.959-P.972 (1
 974)

HE ..THEORY/ SOLID HE/ BCC/ PHONON DISPERSION

74-LA-01 LANTELME, F./ TURQ, P./ QUENTREC, B./ LEWIS, J.W.E
 APPLICATION OF THE MOLECULAR DYNAMICS METHOD TO A LIQUID
 D SYSTEM WITH LONG RANGE FORCES (MOLTEN NA.CL)
 MOL. PHYS., V.28, P.1537-P.1549 (1974)
 NA.CL ..THEORY/ FUSED SALT/ RADIAL DISTRIBUTION FUNCTIO
 N

74-LE-01 LEE, F.J./ LEE, D.K.
 LONG-WAVELENGTH-PHONON SPECTRUM IN LIQUID HE-4
 PHYS. REV. A, V.9, P.1408-P.1411 (1974)
 THEORY-OF-FLUIDS/ HE ..DISPERSION RELATION

74-LE-02 LERIBAU, H.R./ MILLER, L.F.
 STRUCTURE OF THE LIQUID ALKALI METALS BY AN OPTIMIZED IT
 ERATIVE SOLUTION OF THE PERCUS-YEVICK EQUATIONS
 J. CHEM. PHYS., V.61, P.3327 (1974)
 THEORY-OF-FLUIDS ..THEORY/ LIQUID/ STRUCTURE FACTOR ..P
 ERCUS-YEVICK EQUATION

74-LI-01 LIVINGSTON, R.C.
 NEUTRON QUASIELASTIC SCATTERING STUDY OF THE AMMONIUM I
 ON REORIENTATIONS IN A SINGLE CRYSTAL OF N.H4.BR AT 373
 DK
 J. CHEM. PHYS., V.60, P.4541 (1974)
 N.H4.BR ..EXPERIMENT/ NEUTRON SPECTRUM/ SCATTERING LAW/
 QUASI-ELASTIC PEAK ..TORSIONAL VIBRATION PEAK/ DYNAMIC
 ORIENTATIONAL DISORDER

74-LU-01 LURIE, N.A./ SHIRANE, G./ SKALYO, JR.
 PHONON DISPERSION RELATIONS IN XENON AT 10K
 PHYS. REV. B, V.9, P.5300 (1974)
 XE ..EXPERIMENT/ DISPERSION RELATION/ FREQUENCY DISTRIB
 UTION/ BORN-VON KODEL ..SPECIFIC HEAT/ TRIPLE-AXIS CRY
 STAL SPECTROMETER

74-LU-02 LUTY, T./ PAWLEY, G.S.
 A SHELL MODEL FOR MOLECULAR CRYSTALS
 PHYS. STATUS SOLIDI B, V.66, P.309 (1974)
 THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..SH
 ELL MODEL

74-MA-01 MALM, W.C./ DANNER, H.R./ LURIE, N.A.
 COLD NEUTRON SCATTERING FROM GASEOUS METHYL HALIDES
 J. CHEM. PHYS., V.61, P.3863-P.3864 (1974)
 C.H3.I/ C.H3.F/ C.H3.CL ..TIME-FLIGHT-SPECTRA

74-MA-02 MANI, K.K./ RAMANI, R.
 LATTICE DYNAMICS OF GRAPHITE
 PHYS. STATUS SOLIDI B, V.61, P.659 (1974)
 GRAPHITE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATIO
 N ..TENSOR FORCE MODEL

74-MA-03 MAURYA, J.R./ SRIVASTAVA, R.S.
 PHONON DISPERSION RELATION FOR MAGNESIUM
 PHYS. LETT., A, V.50, P.297 (1974)
 MG ..TEORY/ SOLID/ DISPERSION RELATION ..TOYA,S THEORY

74-MI-01 MITSKEVICH, V.
 MICROSCOPIC THEORY OF LATTICE DYNAMICS IN NONCONDUCTING
 CRYSTALS
 PHYS. STATUS SOLIDI B, V.61, P.675 (1974)
 THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS ..NON.CONDU
 CTING CRYSTAL/ DENSITY MATRIX

74-MO-01 MOOK, H.A.
 NEUTRON SCATTERING STUDY OF THE MOMENTUM DISTRIBUTION O
 F 4-HE
 PHYS. REV. LETT., V.32, P.1167 (1974)
 HE ..INELASTIC NEUTRON SCATTERING/ SCATTERING LAW

74-MO-02 MOSTOLLER, M./ KAPLAN, T./ WAKABAYASHI, N./ NICKLO
 W, R.M.
 LATTICE VIBRATIONS IN HCP YO.9.TB0.1 IN THE COHERENT-PO
 TENTIAL APPROXIMATION
 PHYS. REV. B, V.10, P.3144 (1974)
 Y-TB ..THEORY/ LATTICE DYNAMICS/ SOLID/ FREQUENCY SPECT
 RUM ..COHERENT POTENTIAL APPROXIMATION/ GREEN FUNCTION/
 DISORDERED ALLOY

74-NA-01 NARBUTOVICZ, M.A./ STECKI, J.

- ON THE GENERALIZATION OF A VINEYARD CONVOLUTION APPROXIMATION FOR A CLASSICAL SYSTEM
PHYSICA, V.74, P.369-P.382 (1974)
THEORY-OF-FLUIDS ..CORRELATION FUNCTION
- 74-NE-01 NELIN, G.
HARMONIC LATTICE DYNAMICS OF GERMANIUM
PHYS. REV. B, V.10, P.4331 (1974)
GE ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..DEFORMATION DIPOLE MODEL/ SHELL DIPOLE MODEL/ VALENCE-FORCE MODEL/ BROKEN BAND MODEL/ BOND CHARGE MODEL/ DIELECTRIC MODEL
- 74-NE-02 NELIN, G./ NILSSON, G.
PHONON ANHARMONICITY OF GERMANIUM IN THE TEMPERATURE RANGE 80-880K
PHYS. REV. B, V.10, P.612 (1974)
GE ..EXPERIMENT/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ CRYSTAL SPECTROMETER
- 74-NE-03 NELIN, G./ SKOELD, K.
DIFFUSION OF HYDROGEN IN THE BETA-PHASE OF PD-H STUDIED BY SMALL ENERGY TRANSFER NEUTRON SCATTERING
AE-493 (1974)
PD-H ..EXPERIMENT/ SOLID/ QUASI-ELASTIC NEUTRON SCATTERING ..FULL WIDTH AT HALF MAXIMUM
- 74-NE-04 NELIN, G.
HARMONIC LATTICE DYNAMICS OF GERMANIUM
AE-492 (1974)
GE ..THEORY/ SOLID/ LATTICE DYNAMICS/ HARMONIC APPROXIMATION/ DISPERSION RELATION ..SHELL DIPOLE MODEL/ DIELECTRIC MODEL/ VALENCE FORCE MODEL/ BROKEN BAND MODEL/ BOND CHARGE MODEL
- 74-NE-05 NELIN, G./ NILSSON, G.
PHONON ANHARMONICITY OF GERMANIUM IN THE TEMPERATURE RANGE 80-880 K
AE-491 (1974)
GE ..EXPERIMENT/ SOLID/ ANHARMONICITY/ FREQUENCY DISTRIBUTION/ DISPERSION RELATION ..DOUBLE MONOCHROMATOR CRYSTAL SPECTROMETER
- 74-NE-06 NESTERENKO, B.A./ GORBACHEV, B.I./ ZRAZHEVSKII, V.A./ IVANITSKII, P.G./ KROTENKO, V.T.//
PHONON SPECTRUM OF THE SILICON LATTICE
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.16 (V.16), P.3513-P.3515 (P.2284-P.2285) (1974 (1975))
SI ..PHONON SPECTRUM/ EFFECT OF SURFACE/ EXPERIMENT
- 74-NE-07 NEWMAN, D.J.
THE DERIVATION OF FORCE CONSTANTS FROM PHONON FREQUENCIES
- ES
J. PHYS., C, LONDON, V.7, P.1443 (1974)
NA ..THEORY/ FREQUENCY DISTRIBUTION ..F-G MATRIX METHOD
- 74-NI-01 NIIMURA, N.
NEUTRON DIFFRACTION FROM NEMATIC LIQUID CRYSTAL
PHYS. LETT., A, V.48, P.375-P.376 (1974)
P-AZOXYANISOLE/ LIQUID-CRYSTAL ..EXPERIMENT/ STRUCTURE FACTOR
- 74-NI-02 NIIMURA, N.
THE LIQUID STRUCTURE OF BROMINE
PHYS. LETT., A, V.48, P.377-P.378 (1974)
BR ..ANALYSIS/ LIQUID STRUCTURE FACTOR
- 74-NO-01 NOVOTNY, V./ HOLDEN, T.M./ DOLLING, G.
NEUTRON SCATTERING FROM SMALL LEAD PARTICLES
CAN. J. PHYS., V.52, P.748 (1974)
PB ..NEUTRON DIFFRACTION
- 74-OH-01 OHMI, T./ KAWAMOTO, H./ TSUNETO, T.
ROTON SPECTRUM IN SUPERFLUID MIXTURE OF HE-3 AND HE-4
PROGR. THEORET. PHYS., KYOTO, V.52, P.17-P.41 (1974)
- HE ..THEORY/ ROTON SPECTRUM/ HE-3-AND HE-4 MIXTURE
- 74-OL-01 OLSSON, L.G./ LARSSON, K.E.
A COMPARATIVE STUDY OF THE MOTIONS OF METHANE MOLECULES AND ARGON ATOMS IN LIQUID AND HIGH-PRESSURE GAS STATES BY NEUTRON SCATTERING
PHYSICA, V.72, P.300 (1974)
C.H4/ AR ..NEUTRON SCATTERING/ DIFFUSION CONSTANT
- 74-PA-01 PAINTER, R.D./ HARTMAN, W.M.
VIBRATIONAL SPECTRA OF BINARY DISORDERED LINEAR CHAINS WITH SHORT-RANGE ORDER
PHYS. REV. B, V.10, P.2159-P.2171 (1974)
THEORY-OF-SOLIDS ..VIBRATIONAL SPECTRA
- 74-PA-02 PAL, S./ SETH, V.P.
PHONON DISPERSION CURVES, FREQUENCY SPECTRUM AND SPECIFIC HEAT OF POTASSIUM
NUOVO CIM., B, V.21, P.109-P.116 (1974)
K ..THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ SPECIFIC HEAT
- 74-PA-03 PAL, S.
LATTICE-DYNAMICAL PROPERTIES OF CHROMIUM
PHYS. REV. B, V.9, P.5144 (1974)
CR ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ DEBYE-WALLER FACTOR/ DISPERSION RELATION

- 74-PA-04 PANDEY, B.P.
PHONON DISPERSION IN SI,C AND ZN,S POLYTYPES
PHYS. STATUS SOLIDI B, V.65, P.699 (1974)
SI,C/ZN,S ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELAT
ION ..POLYTYP/ FORCE CONSTANT MODEL
- 74-PA-05 PANDEY, B.P.
LATTICE DYNAMICS OF CU,CL
PHYS. LETT., A, V.50, P.215 (1974)
CU,CL ..THEORY/ SOLID/ ..RIGID ION MODEL
- 74-PA-06 PANDEY, B.P./ DAYAL, B.
LATTICE DYNAMICS OF CU,BR AND CU,I BY A MODIFIED RIGID
ION MODEL
SOLID STATE COMMUN., V.15, P.1667-P.1669 (1974)
CU,BR/ CU,I ..DISPERSION-CURVES
- 74-PA-07 PARRINELLO, M./ TOSI, M.P./ MARCH, N.H.
PARTIAL STRUCTURE FACTORS AND ATOMIC DYNAMICS IN CONFOR
MAL SOLUTIONS
PROC. ROY. SOC., LONDON, SER. A, V.341, P.91 (1974)
- THEORY-OF-FLUIDS ..THEORY/ LIQUID/ DYNAMICAL STRUCTURE
FACTOR/ SCATTERING LAW ..BINARY LIQUID
- 74-PA-08 PARRINELLO, M./ TOSI, M.P./ MARCH, N.H.
EXCITATIONS AND ATOMIC TRANSPORT IN CLASSICAL BINARY IS
OTOPIC FLUIDS
J. PHYS., C, LONDON, V.7, P.2577-P.2592 (1974)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ BINARY-MIXTURES/
ISOTOPIC-EFFECTS
- 74-PA-09 PAWLEY, G.S.
PHONON SYMMETRIES DETERMINED FROM SPACE-GROUP DIAGRAMS
ACTA CRYSTALLOGR., SECT. A, V.30, P.585-P.596 (1974)
- THEORY-OF-SOLIDS ..PHONON SYMMETRY/ SPACE GROUP
- 74-PA-10 PAWLEY, G.S./ MIKA, K.
THE DYNAMICS OF MOLECULAR CRYSTALS UNDER PRESSURE
PHYS. STATUS SOLIDI B, V.66, P.679-P.686 (1974)
NAPHTHALENE/ ANTHRACENE/ SULPHUR ..THEORY/ PRESSURE EFF
ECT/ LATTICE DYNAMICS/ PHONON DISPERSION
- 74-PR-01 PRAKASH, J./ PATHAK, L.P./ HEMKAR, M.P.
ANGULAR FORCES IN LATTICE DYNAMICS OF ALKALI METALS
J. PHYS. SOC. JAP., V.37, P.571-P.571 (1974)
K/ RB/ LI ..THEORY/ LATTICE DYNAMICS/ PHONON DISPERSION
/ ANGULAR FORCE MODEL
- 74-RA-01 RAFIZADEH, H.A.
- 74-PA-04 PANDEY, B.P.
PHONON DISPERSION IN SI,C AND ZN,S POLYTYPES
PHYS. STATUS SOLIDI B, V.65, P.699 (1974)
SI,C/ZN,S ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELAT
ION ..POLYTYP/ FORCE CONSTANT MODEL
- 74-PA-05 PANDEY, B.P.
LATTICE DYNAMICS OF CU,CL
PHYS. LETT., A, V.50, P.215 (1974)
CU,CL ..THEORY/ SOLID/ ..RIGID ION MODEL
- 74-PA-06 PANDEY, B.P./ DAYAL, B.
LATTICE DYNAMICS OF CU,BR AND CU,I BY A MODIFIED RIGID
ION MODEL
SOLID STATE COMMUN., V.15, P.1667-P.1669 (1974)
CU,BR/ CU,I ..DISPERSION-CURVES
- 74-PA-07 PARRINELLO, M./ TOSI, M.P./ MARCH, N.H.
PARTIAL STRUCTURE FACTORS AND ATOMIC DYNAMICS IN CONFOR
MAL SOLUTIONS
PROC. ROY. SOC., LONDON, SER. A, V.341, P.91 (1974)
- THEORY-OF-FLUIDS ..THEORY/ LIQUID/ DYNAMICAL STRUCTURE
FACTOR/ SCATTERING LAW ..BINARY LIQUID
- 74-PA-08 PARRINELLO, M./ TOSI, M.P./ MARCH, N.H.
EXCITATIONS AND ATOMIC TRANSPORT IN CLASSICAL BINARY IS
OTOPIC FLUIDS
J. PHYS., C, LONDON, V.7, P.2577-P.2592 (1974)
NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ BINARY-MIXTURES/
ISOTOPIC-EFFECTS
- 74-PA-09 PAWLEY, G.S.
PHONON SYMMETRIES DETERMINED FROM SPACE-GROUP DIAGRAMS
ACTA CRYSTALLOGR., SECT. A, V.30, P.585-P.596 (1974)
- THEORY-OF-SOLIDS ..PHONON SYMMETRY/ SPACE GROUP
- 74-PA-10 PAWLEY, G.S./ MIKA, K.
THE DYNAMICS OF MOLECULAR CRYSTALS UNDER PRESSURE
PHYS. STATUS SOLIDI B, V.66, P.679-P.686 (1974)
NAPHTHALENE/ ANTHRACENE/ SULPHUR ..THEORY/ PRESSURE EFF
ECT/ LATTICE DYNAMICS/ PHONON DISPERSION
- 74-PR-01 PRAKASH, J./ PATHAK, L.P./ HEMKAR, M.P.
ANGULAR FORCES IN LATTICE DYNAMICS OF ALKALI METALS
J. PHYS. SOC. JAP., V.37, P.571-P.571 (1974)
K/ RB/ LI ..THEORY/ LATTICE DYNAMICS/ PHONON DISPERSION
/ ANGULAR FORCE MODEL
- 74-RA-01 RAFIZADEH, H.A.
- 74-RA-02 RAHMAN, A,
PROPAGATION OF DENSITY FLUCTUATIONS IN LIQUID RUBIDIUM.
A MOLECULAR-DYNAMICS STUDY
PHYS. REV. LETT., V.32, P.52-P.54 (1974)
RB/ NEUTRON-SCATTERING-IN-FLUIDS ..DISPESION CURVE/ ZER
O SOUND
- 74-RA-03 RAHMAN, A.
DENSITY FLUCTUATIONS IN LIQUID RUBIDIUM II, MOLECULAR-D
YNAMICS CALCULATIONS
PHYS. REV. A, V.9, P.1667 (1974)
RB ..MOLECULAR DYNAMIC CALCULATION/ LIQUID
- 74-RA-04 RAO, R.R./ MENON, C.S.
LATTICE DYNAMICS, THIRD ORDER ELASTIC CONSTANTS AND THE
RMAL EXPANSION OF CADOLINIUM
J. PHYS. CHEM, SOLIDS, V.35, P.425-P.432 (1974)
GADOLINIUM ..DISPERSION CURVE/ THEORY
- 74-RA-05 RAO, R.V.G./ MURTHY, A.K.
X-RAY STUDIES OF LIQUIDS: I. DIRECT CORRELATION FUNCTIO
N OF LIQUID METHANE
J. PHYS., C, LONDON, V.7, P.2249-P.2254 (1974)
METHANE ..EXPERIMENT/ X-RAY/ STRUCTURE FACTOR/ DIRECT C
ORRELATION FUNCTION
- 74-RA-06 RAO, P.V.S.
PHONON DISPERSION RELATIONS, EFFECTIVE INTERIONIC POTEN
TIAL AND LFØID RESISTIVITY OF AL
J. PHYS. CHEM, SOLIDS, V.35, P.669-P.684 (1974)
AL ..THEORY/ NONLOCAL OPTIMIZED MODEL POTENTIAL/ PHONON
DISPERSION/ LIQUID RESISTIVITY
- 74-RA-07 RAO, M,
CLUSTER EXPANSION FOR THE COHERENT AND INCOHERENT DYNAM
IC STRUCTURE FACTOR IN SIMPLE CLASSICAL LIQUIDS
PHYS. REV. A, V.9, P.2220 (1974)
THEORY-OF-FLUIDS ..CLUSTER EXPANSION/ DYNAMIC STRUCTURE
FACTOR/ CLASSICAL LIQUIDS
- 74-RA-08 RASTOGI, A./ HAWRANEK, J.P./ LOWMEDES, R.P.,
LATTICE DYNAMICS AND ANHARMONIC SELF-ENERGIES FOR THE L
ITHIUM HALIDES

- PHYS. REV. B, V.9, P.1938 (1974)
LI.BR/LI.F/LI.F/LI.CL ..LATTICE DYNAMICS/ THEORY
- 74-RA-09 RATHMANN, O./ ALS-NIELSEN, J.
LONG-RANGE ORDER IN BETA-BRASS STUDIES BY NEUTRON DIFFRACTION
ACTION
CU-ZN ..LONG-RANGE ORDER/ NEUTRON DIFFRACTION
- 74-RE-01 REYNOLDS, P.A./ KJEMS, J.K./ WHITE, J.W.
LATTICE VIBRATIONS IN CHLOROBENZENE, EXPERIMENTAL DISPERSION CURVES FOR BETA-PARADICHLOROBENZENE BY NEUTRON SCATTERING
J. CHEM. PHYS., V.60, P.824-P.834 (1974)
DICHLOROBENZENE ..EXPERIMENT/ CALCULATION/ PHONON DISPERSION
- 74-RI-01 RISTE, T.
ANHARMONIC LATTICES, STRUCTURAL TRANSITIONS AND MELTING
NOORDHOFF, LEIDEN, NETHERLANDS (1974)
REVIEW-ARTICLES/ PHASE-TRANSITION ..CONFERENCE PROCEEDING/ NATO ADVANCED STUDY INSTITUTE
- 74-RO-01 ROMANO, S./ MARGHERITIS, C.
MONTE-CARLO COMPUTATIONS FOR SOME SIMPLE MODELS ACCOUNTING FOR IONIC POLARIZATION IN POTASSIUM
PHYSICA, V.77, P.557 (1974)
K.CL ..IONIC POLARIZATION/ ALKALI HALIDE
- 74-RO-02 ROS, R.T./ SAUNDERSON, D.H.
LATTICE DYNAMICS OF LITHIUM NIOBATE
J. PHYS., C, LONDON, V.7L, P.99 (1974)
LI.NB.O3 ..DISPERSION RELATION/ INELASTIC NEUTRON SCATTERING
- 74-RO-03 ROWE, J.M./ RUSH, J.J./ FLOTOW, H.E.
NEUTRON-QUASIELASTIC-SCATTERING STUDY OF HYDROGEN DIFFUSION IN A SINGLE CRYSTAL OF TANTALUM
PHYS. REV. B, V.9, P.5039 (1974)
TA-H ..EXPERIMENT/ QUASI-ELASTIC PEAK/ TOF
- 74-RO-04 ROWE, J.M./ NICKLOW, R.M./ PRICE, D.L./ ZANIO, K.
LATTICE DYNAMICS OF CADMIUM TELLURIDE
PHYS. REV. B, V.10, P.671 (1974)
CD.TE ..EXPERIMENT/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..PARAMETER SHELL MODEL
- 74-RO-05 ROWE, J.M./ RUSH, J.J./ SMITH, H.G./ MOSTOLLER, M./ FLOTOW, H.E.
LATTICE DYNAMICS OF A SINGLE CRYSTAL OF PD-DO.63
PHYS. REV. LETT., V.33, P.1297-P.1300 (1974)
PD-H ..EXPERIMENT/ PHONON DISPERSION/ 78,150,220,295K/
- PD.DO.63
- 74-SA-01 SACCHETTI, F.
MAGNETIC FORM FACTOR DETERMINATION BY INELASTIC SCATTERING OF NEUTRONS AS COMPARED TO ELASTIC SCATTERING MEASUREMENTS
SOLID STATE COMMUN., V.15, P.963-P.964 (1974)
MAGNETIC-SCATTERING ..THEORY
- 74-SA-02 SAKAMOTO, M./ MASAKI, N./ MOTOHASHI, H./ DOI, K./ KURIYAMA, I./
NEUTRON SPECTROSCOPY ON POLYOXYMETHYLENE
JAERI-M-5933 (1974)
POLYOXYMETHYLENE ..EXPERIMENT/ ORIENTED CRYSTAL/ FREQUENCY SPECTRUM
- 74-SA-03 SAMUELSEN, E.J./ STEINSVOLL, O.
LOW-ENERGY PHONONS IN MAGNETITE
PHYS. STATUS SOLIDI B, V.61, P.615 (1974)
MAGNETITE ..EXPERIMENT/ INELASTIC NEUTRON SCATTERING/ DISPERSION RELATION ..SPINEL STRUCTURE/ TRIPLE AXIS SPECTROMETER/ NEAR THE VERWAY TRANSITION/ SOUND VELOCITY/ ANHARMONICITY
- 74-SA-04 SANDLER, S.I./ DAS-GUPTA, A./ STEELE, W.A.
X-RAY AND NEUTRON DIFFRACTION FROM DIATOMIC LIQUIDS
J. CHEM. PHYS., V.61, P.1326-P.1337 (1974)
THEORY-OF-FLUIDS ..RADIAL-DISTRIBUTION-FUNCTION ..ANALYSIS-OF-DATA
- 74-SC-01 SCHEERLINCK, D./ WEGENER, W./ HAUTECLER, S.
DISPERSION OF ACOUSTICAL MAGNONS AND PHONONS IN MN(1,7)FE(1,3)O4
SOLID STATE COMMUN., V.15, P.1529-P.1533 (1974)
MN.FE2.O4 ..DISPERSION-CURVES
- 74-SC-02 SCHEERLINCK, R./ STIRLING, W.G./ WOODS, A.D.B./ COWLEY, R.A./ COOMBS, G.J.
NEUTRON SCATTERING FROM LIQUID HE-3
J. PHYS., C, LONDON, V.7L, P.341-P.345 (1974)
HE ..HE-3/ S(0,W)
- 74-SC-03 SCHOFIELD, P.
TIME CORRELATIONS IN CLASSICAL STATISTICAL MECHANICS
J. PHYS., A, LONDON, V.7, P.246 (1974)
THEORY-OF-FLUIDS/ THEORY-OF-SOLIDS ..THEORY/ CORRELATION FUNCTION
- 74-SC-04 SCHRODT, I.B./ DAVIS, H.T.
KINETIC THEORY OF DENSE FLUIDS
J. CHEM. PHYS., V.61, P.323 (1974)
AR ..THEORY/ LIQUID ..HARD AND SOFT PARTS SEPARATION OF

- POTENTIAL/ THERMAL CONDUCTIVITY/ SELF DIFFUSION COEFFICIENT/ SHEAR VISCOSITY
- 74-SC-05 SCOTT, J.F.
SOFT-MODE SPECTROSCOPY EXPERIMENTAL STUDIES OF STRUCTURAL PHASE TRANSITIONS
REV. MOD. PHYS., V.46, P.83 (1974)
REVIEW-ARTICLES ..THEORY/ EXPERIMENT/ SOLID/ STRUCTURAL PHASE TRANSITION/ NEUTRON SCATTERING/ INFRARED/ X-RAY EXPERIMENT
- 74-SE-01 SEN, P.N./ HARTMANN, W.M.
COHERENT-POTENTIAL APPROXIMATION FOR THE LATTICE VIBRATIONS OF MIXED DIATOMIC SYSTEMS
PHYS. REV. B, V.9, P.367-P.380 (1974)
THEORY-OF-SOLIDS ..THEORY/ PHONON/ MASS-DISORDERED SYSTEM/ COHERENT-POTENTIAL/ ONE-DIMENSION/ DENSITY OF STATE
- 74-SH-01 SHAPIRO, S.M./ AXE, J.D.
NEUTRON-SCATTERING STUDIES OF SPIN WAVES IN RARE-EARTH ORTHOFERRITES
PHYS. REV. B, V.10, P.2014-P.2021 (1974)
TM,FE,O3/ ER,FE,O3/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERSION/ SOFT MODE
- 74-SH-02 SHAPIRO, S.M./ AXE, J.D./ SHIRANE, G.
NEUTRON SCATTERING STUDY OF THE STRUCTURAL PHASE TRANSITION IN NB.O2
SOLID STATE COMMUN., V.15, P.377-P.381 (1974)
NB.O2/ PHASE-TRANSITION ..CRITICAL SCATTERING DUE TO SOFT MODE
- 74-SH-03 SHARMA, T.P.
LATTICE DYNAMICS OF MN.O
SOLID STATE COMMUN., V.15, P.1171-P.1173 (1974)
MN.O ..DISPERSION-CURVES ..THEORY/ DEFORMATION-DIPOLE-MODEL
- 74-SH-04 SHIRANE, G.
NEUTRON SCATTERING STUDIES OF STRUCTURAL PHASE TRANSITIONS AT BROOKHAVEN
REV. MOD. PHYS., V.46, P.437-P.449 (1974)
SR,TI,O3/ K,MN,F3/ K.TA,O3/ PHASE-TRANSITION ..REVIEW/ SOFT MODE/ PHASE CHANGE
- 74-SI-01 SINGH, N./ PRAKASH, S.
PHONON FREQUENCIES OF GOLD
PHYS. REV. B, V.10, P.2652-P.2653 (1974)
AU ..DISPERSION-CURVES
- 74-SI-02 SINGH, O.N./ KUSHWAHA, S.S.
LATTICE DYNAMICS OF COBALT
NUOVO CIM., B, V.21, P.354-P.362 (1974)
CO ..THEORY/ PHONON DISPERSION/ DEBYE TEMP.
- 74-SI-03 SINGH, R.K.
LATTICE DYNAMICS OF SOME LITHIUM SALTS
LI.H/ LI.BR/ LI.I ..DISPERSION-CURVES/ DENSITY-OF-STATE
- 74-SI-04 SINHA, H.P./ UPADHYAYA, J.C.
A MODEL FOR LATTICE DYNAMICS OF HCP METALS
PHYS. LETT., A, V.50A, P.37-P.38 (1974)
YTTRIUM ..DISPERSION-CURVES/ CALCULATION
- 74-SK-01 SKALYO-JR., J./ ENDOH, Y./ SHIRANE, G.
INELASTIC NEUTRON SCATTERING FROM SOLID KRYPTON AT 10 K
PHYS. REV. B, V.9, P.1797 (1974)
KR ..PHONON DISPERSION CURVE/ FREQUENCY DISTRIBUTION/ INELASTIC NEUTRON SCATTERING
- 74-SO-01 SOMA, T.
LATTICE VIBRATION SPECTRA IN ALPHA-SN
J. PHYS. SOC. JAP., V.36, P.1301-P.1303 (1974)
SN ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL
- 74-ST-01 STAMENKOVIC, S.
THEORY OF NEUTRON ELASTIC SCATTERING BY NEMATIC LIQUID CRYSTALS
JINR-E4-7981 (1974)
NEUTRON-SCATTERING-IN-FLUIDS/ LIQUID-CRYSTAL ..THEORY/ SOLID/ SIGMA (THETA,E) ..LIQUID CRYSTAL
- 74-ST-02 STEINER, M./ DORNER, B./ VILLAIN, J.
INELASTIC NEUTRON INVESTIGATION OF THE ANISOTROPY OF THE SPIN WAVE LINEWIDTH IN THE ONE-DIMENSIONAL EASY-PLANE FERROMAGNET CS.NI.F3
J. PHYS., C, LONDON, V.7, P.165 (1974)
CS,NI,F3/ MAGNETIC-SCATTERING ..CONSTANT-Q METHOD/ CORRELATION FUNCTION/ SPIN WAVE
- 74-ST-03 STILLINGER, F.H./ RAHMAN, A.
MOLECULAR DYNAMICS STUDY OF LIQUID WATER UNDER HIGH COMPRESSION
J. CHEM. PHYS., V.61, P.4973 (1974)
H2,O ..LIQUID/ PAIR CORRELATION FUNCTION/ MOLECULAR DYNAMICS ..COMPUTER EXPERIMENT
- 74-TA-01 TANI, K.
THEORY OF NEUTRON SCATTERING FROM LATTICE VIBRATIONS. 2
APPLICATION OF A PHONON THEORY
J. PHYS. SOC. JAP., V.36, P.406-P.421 (1974)

- NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ STRUCTURAL PHASE
TRANSITION/ MAGNETIC SYSTEM/ ANHARMONIC SYSTEM
- 74-TE-01 TEUCHERT, W.D./ GEICK, R.
SYMMETRY OF LATTICE VIBRATIONS IN SELENIUM AND TELLURIUM
PHYS. STATUS SOLIDI B, V.61, P.123-P.136 (1974)
- 74-TE-02 TEWARY, V.K.
LATTICE DYNAMICS OF A SOLID WITH A SCREW DISLOCATION
J. PHYS., C, LONDON, V.7, P.261 (1974)
- THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..GR
EEN FUNCTION/ SKREW DISLOCATION
- 74-TH-01 THOMA, K./ DORNER, B./ DUESING, G./ WEGENER, W.
LATTICE DYNAMICS OF ZN.O
SOLID STATE COMMUN., V.15, P.1111-P.1114 (1974)
- ZN.O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING
WITH 10 PARAMETERS
- 74-TR-01 TRIPATHI, R.S./ BEHERA, S.N.
PHONONS IN MIXED CRYSTALS . A SELF-CONSISTENT THEORY IN
CLUDING MASS AND FORCE-CONSTANT CHANGES
J. PHYS., C, LONDON, V.7, P.4470 (1974)
- THEORY-OF-SOLIDS ..GREEN-FUNCTION
- 74-TS-01 TSANG, T./ MACLIN, A.P.
VELOCITY AUTOCORRELATION FUNCTIONS IN CLASSICAL FLUIDS
PHYSICA, V.77, P.361 (1974)
- AR ..VELOCITY CORRELATION/ LIQUID
- 74-TS-02 TSUZUKI, T.
ON THE TEMPERATURE DEPENDENCE OF SUNAKAWA'S EXCITATION
SPECTRUM OF BOSE LIQUIDS
PROGR. THEORET. PHYS., KYOTO, V.51, P.1981-P.1983
(1974)
- HE ..THEORY/ LIQUID HE/ ROTON DISPERSION/ TEMPERATURE
EFFECT
- 74-UP-01 UPADHYAYA, K.S./ SINGH, K.K.
SHELL MODEL LATTICE DYNAMICS OF TRANSITION METAL OXIDES
J. PHYS. CHEM. SOLIDS, V.35, P.1175 (1974)
- MN.O/ CO.O/ NI.O ..THEORY/ DISPERSION RELATION/ LATTICE
DYNAMICS ..THREE-BODY FORCE SHELL MODEL
- 74-VA-01 VAGELATORS, N./ WEHE, D./ KING, J.S.
PHONON DISPERSION AND PHONON DENSITIES OF STATES FOR ZN
S AND ZN.TE
J. CHEM. PHYS., V.60, P.3613 (1974)
- ZN,S/ ZN,TE ..PHONON DISPERSION/ FREQUENCY DISTRIBUTION/
INELASTIC NEUTRON SCATTERING
- 74-VE-01 VETELINO, J.F./ ROY, L.G./ MITRA, S.S.
LATTICE DYNAMICAL CALCULATION OF THE SECOND GRUENEISEN
CONSTANT OF CS.BR
J. PHYS. CHEM. SOLIDS, V.35, P.47-P.52 (1974)
- CS.BR ..THEORY/ SECOND GRUENEISEN CONSTANT/ MODIFIED RI
GID ION MODEL/ PRESSURE DEPENDENT LATTICE DYNAMICS
- 74-VO-01 VORDERWISCH, P./ HAUTECLER, S.
INELASTIC NEUTRON SCATTERING BY CERIUM HYDRIDES (3)
PHYS. STATUS SOLIDI B, V.66, P.595 (1974)
- CERIUM HYDRIDE ..CE-H1.98
- 74-VO-02 VORDERWISCH, P./ HAUTECLER, S.
INELASTIC NEUTRON SCATTERING BY CERIUM HYDRIDES
PHYS. STATUS SOLIDI B, V.64, P.495-P.501 (1974)
- CE-H ..EXPERIMENT/ PHONON SPECTRA
- 74-VO-03 VORDERWISCH, P./ HAUTECLER, S./ DECKERS, H.
INELASTIC NEUTRON SCATTERING BY CESIUM HYDRIDES. II.
PHYS. STATUS SOLIDI B, V.65, P.171-P.180 (1974)
- CESIUM HYDRIDE ..DENSITY-OF-STATES/ SPECIFIC-HEAT
- 74-WA-01 WAKABAYASHI, N./ NICKLOW, R.M.
SPIN-WAVE DISPERSION AND EXCHANGE INTERACTIONS IN YU.90
-TBO,10 AND YU.90-HO0.10 ALLOYS
PHYS. REV. B, V.10, P.2049-P.2054 (1974)
- Y-TB/ Y-HO/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DI
SPERSION/ ALLOY/ 4,2 DK
- 74-WA-02 WATTS, R.O.
MONTE CARLO STUDIES OF LIQUIDS WATER
MOL. PHYS., V.28, P.1069-P.1083 (1974)
- LIGHT WATER/ THEORY-OF-FLUIDS ,RADIAL-DISTRIBUTION-FUN
CTION/ MONTE-CARLO
- 74-WE-01 WEAIRE, D./ ALBEN, R.
THE APPROACH TO THE INCOHERENT LIMIT IN HIGH- ω INELASTI
C NEUTRON SCATTERING FROM AN AMORPHOUS TETRAHEDRALLY BO
NDED SEMICONDUCTOR
J. PHYS., C, LONDON, V.7, P.189 (1974)
- GE ..THEORY/ NEUTRON SPECTRUM ,AMORPHOUS SOLID
- 74-WE-02 WEGENER, W./ SCHEERING, D./ LEGRAND, E./ HAUTECLER
S.
INELASTIC NEUTRON SCATTERING STUDY OF ACOUSTICAL MAGNON
S IN MNFE2O4
SOLID STATE COMMUN., V.15, P.345 (1974)
- MN.FE2.O4 ..EXPERIMENT/ TOF/ DISPERSION RELATION ..SPIN
WAVE SPECTRUM
- 74-YA-01 YAMADA, Y./ NODA, Y./ AXE, J.D./ SHIRANE, G.

- DYNAMICAL CRITICAL PHENOMENA IN N.D4.BR
PHYS. REV. B, V.9, P.4429 (1974)
N.H4.BR ..EXPERIMENT/ SIGMA(THETA.E)/ DISPERSION RELATI
ON ..STRUCTURAL PHASE TRANSITION/ SPIN-PHONON COUPLING
- 74-YE-01 YELON, W.B./ SCHEM, R.
ACOUSTIC PHONON SPECTRA OF FE.CL2
SOLID STATE COMMUN., V.15, P.391-P.394 (1974)
FE.CL2 ..EXPERIMENT/ PHONON DISPERSION
- 74-ZA-01 ZACCAI, G./ HEWAT, A.W.
SOFT MODES AND THE STRUCTURE OF FERROELECTRIC TETRAGONA
L KTN, 2. THE LATTICE DYNAMICS OF THE CUBIC PHASE
J. PHYS., C. LONDON, V.7, P.15-P.24 (1974)
K.NB.03/ K.TA.03 ..X-RAY AND NEUTRON DIFFRACTION/ DIFFU
SE STREAK/ PHONON DISPERSION
- 74-ZY-01 NEUTRON SCATTERING LABORATORY, DIVISION OF PHYSICS
, JAERI
PROCEEDING OF THE FIRST CONFERENCE ON APPLICATIONS OF N
EUTRON SCATTERING (IN JAPANESE)
JAERI-M-5829 (1974)
REVIEW-ARTICLES/ SCATTERING-BY-DEFECTS ..APPLICATION OF
NEUTRON SCATTERING TO MATERIAL SCIENCE
- 75-AG-01 AGRANOVICH, V.M./ LALOV, I.I.
NEUTRON SCATTERING BY LASER PHOTONS IN CRYSTALS
PHYS. LETT., A, V.53, P.169-P.170 (1975)
NEUTRON-SCATTERING-IN-SOLIDS ..NEUTRON-PHOTON INTERACTI
ON/ CRYSTAL LATTICE
- 75-AL-01 ALBEN, K./ WEARE, D./ SMITH-JR, J.E./ BRODSKY, M.
H.
VIBRATIONAL PROPERTIES OF AMORPHOUS SI AND GE
PHYS. REV. B, V.11, P.2271-P.2296 (1975)
SI/ GE ..EXPERIMENT/ RAMAN,IR SPECTRA/ PHONON SPECTRA/
NUMERICAL CALCULATION/ PREDICTION FOR NEUTRON SCATTERIN
G
- 75-AL-02 ALTSHULER, A.M./ VEKILOV, Y.K./ IZOTOV, A.D.
LATTICE DYNAMICS OF COVALENT IONIC COMPOUNDS (2)
PHYS. STATUS SOLIDI B, V.70, P.347 (1975)
SI/ GA,AS/ ZN.S ..THEORY/ DISPERSION RELATION/ LATTICE
DYNAMICS ..PSEUDOPOTENTIAL METHOD
- 75-AM-01 AMARAL, L.O./ FULFARO, R./ VINHAS, L.A.
MOLECULAR DYNAMICS OF TERT-BUTANOL STUDIED BY NEUTRON T
RANSMISSION
J. CHEM. PHYS., V.63, P.1312-P.1314 (1975)
BUTANOL ..EXPERIMENT/ TOTAL CROSS SECTION/ TEMPERATURE
EFFECT
- 75-AS-01 ASADA, H./ TOYA, T./ MOTOHASHI, H./ SAKAMOTO, M./
HAMAGUCHI, Y.
STUDY OF HYDROGEN ADSORBED ON PLATINUM BY NEUTRON INELA
STIC SCATTERING SPECTROSCOPY
J. CHEM. PHYS., V.63, P.4078-P.4079 (1975)
H-PT ..INELASTIC NEUTRON SCATTERING EXPERIMENT/ HYDROGE
N ADSORBED ON PLATINUM
- 75-AX-01 AXE, J.D./ KEATING, D.T./ MOSS, S.C.
ANOMALOUS INELASTIC NEUTRON SCATTERING IN BCC ZR-NB ALL
OYS
PHYS. REV. LETT., V.35, P.530 (1975)
ZR-NB ..EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RE
LATION ..1238DK
- 75-BA-01 BARKER, M.I./ GASKELL, T.
DAMPING OF COLLECTIVE MODE IN LIQUID METALS
J. PHYS., C, LONDON, V.8, P.89-P.100 (1975)
THEORY-OF-FLUIDS/ NA ..LIQUID METALS/ DAMPING OF COLLEC
TIVE MODE/ LONG-RANGE OSCILLATORY INTERIONIC POTENTIAL
- 75-BE-01 BERGHMANS, H./ GROENINCKX, G.
STUDY OF THE LOW-FREQUENCY MOTIONS IN POLY(ETHYLENE TER
EPHTHALATE) (PET) BY NEUTRON INELASTIC SCATTERING
J. POLY. SCI., POLY. PHYS., V.13, P.151-P.162 (197
5)
POLYETHYLENE TEREPHTHALATE ..EXPERIMENT/ PHONON SPECTRA
/ EFFECT OF CRYSTALLINITY
- 75-BE-02 BERNEY, C.V.
NEUTRON SCATTERING FROM FERMI RESONANT VIBRATIONAL MOD
ES IN CARBONDIOXIDE
J. CHEM. PHYS., V.62, P.936 (1975)
C.O2 ..NEUTRON SCATTERING SPECTRUM
- 75-BE-03 BERNEY, C.V.
NEUTRON SCATTERING FROM FERMI-RESONANT VIBRATIONAL MODE
S IN CARBON DIOXIDE
J. CHEM. PHYS., V.62, P.936-P.937 (1975)
C.O2 ..CALCULATION/ SOLID
- 75-BE-04 BERTOLO, L.A./ SHUKLA, M.M.
MODIFIED BHATIA'S MODEL FOR LATTICE DYNAMICS OF F.C.C.
TRANSITION METALS
J. PHYS. SOC. JAP., V.38, P.1439-P.1444 (1975)
NI/ PD/ PT ..THEORY/ PHONON DISPERSION/ MODIFIED BHATIA
MODEL
- 75-BE-05 BETSUYAKU, H.
NEUTRON SCATTERING FUNCTION IN A HEISENBERG PARAMAGNET
, APPLICATION TO K.MN.F3
J. PHYS. SOC. JAP., V.38, P.21-P.31 (1975)

- K.MN.F3/ MAGNETIC-SCATTERING .. THEORY/ SUM-RULE MOMENT METHOD/ SCATTERING FUNCTION
- 75-BI-01 BIALAS, H./ STOLZ, H.J.
LATTICE DYNAMICS OF SAPPHIRE (CORUNDUM), PART I. PHONON DISPERSION BY INELASTIC NEUTRON SCATTERING
Z. PHYS. B, V.21, P.319-P.324 (1975)
CORUNDUM .. EXPERIMENT/ PHONON DISPERSION/ SAPPHIRE
- 75-BI-02 BILIR, N./ PHILLIPS, W.A.
PHONON IN SiO₂, THE LOW-TEMPERATURE HEAT CAPACITY OF CRISTOBALITE
PHIL. MAG., V.32, P.113 (1975)
SiO₂ .. EXPERIMENT/ DISPERSION RELATION .. 2DK-20DK/ AMORPHOUS/ SPECIFIC HEAT
- 75-BI-03 BILZ, H./ BUCHANAN, M./ FISCHER, K./ HABERKORN, R.
OVERLAP POLARIZATION AND LATTICE DYNAMICS OF IONIC CRYSTALS
SOLID STATE COMMUN., V.16, P.1023-P.1026 (1975)
NaI .. THEORY/ OVERLAP POLARIZATION/ SHELL MODEL
- 75-BL-01 BLASCHKO, O./ ERNST, G./ QUITTNER, G./ KRESS, W./ LECHNER, R.E.
MODE GRUENEISEN PARAMETER DISPERSION RELATION OF Rb₂IO₄ DETERMINED BY NEUTRON SCATTERING
PHYS. REV. B, V.11, P.3960-P.3965 (1975)
Rb₂IO₄ .. PHONON FREQUENCY/ PRESSURE EFFECT/ GRUENEISEN PARAMETER
- 75-BL-02 BLASCHKO, O./ ERNST, G./ QUITTNER, G.
PRESSURE INDUCED PHONON FREQUENCY SHIFTS IN K₂BR MEASURED BY INELASTIC NEUTRON SCATTERING
J. PHYS. CHEM. SOLIDS, V.36, P.41-P.44 (1975)
K₂BR .. EXPERIMENT/ PHONON FREQUENCY SHIFT/ PRESSURE EFFECT
- 75-BL-03 BLETRY, J./ SADO, J.F.
DETERMINATION OF THE THREE PARTIAL INTERFERENCE FUNCTIONS OF AN AMORPHOUS COBALT-PHOSPHOR FERROMAGNET BY POLARIZED-NEUTRON SCATTERING
J. PHYS., F, LONDON, V.5L, P.110-P.117 (1975)
CO₂/ MAGNETIC-SCATTERING .. EXPERIMENT/ PAIR-CORRELATION FUNCTION
- 75-BL-04 BLOCK, R./ SCHOMMERS, W.
TRIPLET CORRELATIONS IN DISORDERED SYSTEMS: A STUDY FOR LIQUID RUBIDIUM
J. PHYS., C, LONDON, V.8, P.1997 (1975)
Rb/ THEORY-OF-FLUIDS .. THEORY/ LIQUID/ MOLECULAR DYNAMICS/ CORRELATION FUNCTION .. TRIPLET CORRELATION FUNCTION
- 75-BO-01 BONILLA, I.R./ RUTT, H.N.
ANGULAR DISPERSION OF PHONONS IN BIAXIAL Na₂SO₄
PHYS. STATUS SOLIDI B, V.69, P.395-P.398 (1975)
Na₂SO₄ .. RAMAN SPECTRA/ ANGULAR DISPERSION/ INTERNAL PHONON
- 75-BO-02 BORCHERDS, P.H./ ALFLEY, G.F./ SAUNDERSON, D.H./ WOODS, A.D.B.
PHONON DISPERSION CURVES IN INDIUM PHOSPHIDE
J. PHYS., C, LONDON, V.8, P.2022 (1975)
IN.P .. SOLID/ EXPERIMENT/ DISPERSION RELATION
- 75-BR-01 BROSTOW, W.
THERMAL NEUTRON SCATTERING BY LIQUID ARGON AND THE INTERMOLECULAR POTENTIAL
CHEM. PHYS. LETT., V.35, P.387-P.390 (1975)
AR .. THEORY/ INTERMOLECULAR POTENTIAL
- 75-BU-01 BUEHRER, W./ BRUESCH, P.
PHONON DISPERSION AND BETA - ALPHA TRANSITION IN SILVER IODINE
SOLID STATE COMMUN., V.16, P.155 (1975)
AgI .. EXPERIMENT/ SOLID/ DISPERSION RELATION
- 75-BU-02 BUEHRER, W.
CRYSTAL DYNAMICS OF SILVER BROMIDE AT 80 AND 295K
PHYS. STATUS SOLIDI B, V.68, P.739-P.748 (1975)
AgBr .. EXPERIMENT/ PHONON DISPERSION/ 80 AND 295K/ 12-PARAMETER MODEL FITTING/ FREQUENCY DISTRIBUTION
- 75-BU-03 BUYERS, W.L./ SEARS, V.F./ LONNGI, P.A./ LONNGI, D.A.
COLLECTIVE AND SINGLE EXCITATIONS IN LIQUID NEON
PHYS. REV. A, V.11, P.697 (1975)
NEON .. QUASI-ELASTIC PEAK/ SCATTERING LAW
- 75-CA-01 CARNEIRO, K./ MCTAGUE, J.P.
DYNAMICS OF LIQUID N₂ AT T=66.4K STUDIED BY NEUTRON INELASTIC SCATTERING
PHYS. REV. A, V.11, P.1744-P.1754 (1975)
N₂ .. EXPERIMENT/ SCATTERING LAW/ LIQUID/ 66.4K
- 75-CA-02 CARPENTER, J.M./ PELIZZARI, C.A.
INELASTIC NEUTRON SCATTERING FROM AMORPHOUS SOLIDS. I. CALCULATION OF THE SCATTERING LAW FOR MODEL STRUCTURES
PHYS. REV. B, V.12, P.2391-P.2396 (1975)
NEUTRON-SCATTERING-IN-SOLIDS .. SCATTERING LAW/ AMORPHOUS SOLID/ THEORY
- 75-CA-03 CARPENTER, J.M./ PELIZZARI, C.A.
INELASTIC NEUTRON SCATTERING FROM AMORPHOUS SOLIDS. II.

INTERPRETATION OF MEASUREMENTS
 PHYS. REV. B, V.12, P.2397-P.2401 (1975)
 NEUTRON-SCATTERING-IN-SOLIDS ..SCATTERING LAW/ THEORY

75-CA-04 CAVALHEIRO, R./ SHUKLA, M.M.
 DISPERSION OF PHONON WAVES IN PLATINUM AND THORIUM
 NUOVO CIM., B, V.26, P.220-P.228 (1975)
 PT/ TH ..THEORY/ PHONON DISPERSION/ DE-LAUNAY MODEL

75-CH-01 CHANG, S.S./ TOMPSON, C.W./ GUERMAN, E./ DUHLESTEI
 N, L.D.
 LATTICE DYNAMICS OF BA.O
 J. PHYS. CHEM. SOLIDS, V.36, P.769-P.773 (1975)
 BA.O ..EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTI
 NG/ FREQUENCY SPECTRA/ DEBYE TEMPERATURE

75-CH-02 CHEN, J.Y./ VEDELINO, J.F./ MITRA, S.S.
 DENSITY OF PHONON STATES IN AMORPHOUS GERMANIUM AND SIL
 ICON
 SOLID STATE COMMUN., V.16, P.1313 (1975)
 GE/ SI ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION ..AMORPH
 OUS SOLID/ RIGID ION MODEL

75-CL-01 CLOSS, H./ SHUKLA, M.M.
 THE LATTICE DYNAMICS OF NOBLE METALS
 PHYSICA, B+C, V.79, P.26-P.34 (1975)
 CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ SPECIFIC HEAT

75-DE-01 DE-PATER, C.J./ VAN-DIJK, C./ NIEUWENHUYNS, G.J.
 DIFFUSE NEUTRON SCATTERING OF PD-MN
 J. PHYS., F, LONDON, V.5L, P.58 (1975)
 PD-MN/ MAGNETIC-SCATTERING ..EXPERIMENT/ DIFFUSE SCATTE
 RING/ GIANT MAGNETIC MOMENT

75-DI-01 DIEHL, H.W./ BIEM, W.
 PHONON- AND LIBRON-EXCITATION WITH ORTHO-PARA CONVERSI
 ONS BY NEUTRON SCATTERING ON SOLID HYDROGEN
 Z. PHYS., B, V.20, P.137-P.146 (1975)
 H2 ..THEORY/ SCATTERING CROSS SECTION/ ORTHO-PARA CONVE
 RSION

75-DI-02 DIETRICH, O.W./ MACKENZIE, G.A./ PAWLEY, G.S.
 THE STRUCTURAL PHASE TRANSITION IN SOLID DCN
 J. PHYS., C, LONDON, V.8L, P.98-P.102 (1975)
 H.C.N ..EXPERIMENT/ PHASE TRANSITION/ PHONON SOFTENING

75-DI-03 DIMIC, V./ USREDKAR, M.
 NEUTRON SCATTERING INVESTIGATION OF THE PHASE TRANSITIO
 NS IN PB,Ca2(CH3,CH2,COO)6
 PHYS. STATUS SOLIDI A, V.30K, P.63 (1975)
 DICALCIUM LEAD PROPIONATE ..EXPERIMENT/ SOLID/ LIQUID/
 ROTATING CRYSTAL SPECTROMETER/ DEBYE-WALLER FACTOR/ MEA

N SQUARE DISPLACEMENT ..170DK-450DK

75-EG-01 EGGARTER, T.P.
 FREQUENCY SPECTRUM OF THE MIXED DIATOMIC CHAIN A(X)B(C)
 X)X
 SOLID STATE COMMUN., V.16, P.705-P.707 (1975)
 THEORY-OF-SOLIDS ..EXACT FORMALISM/ PHONON FREQUENCY/ M
 IXED CHAIN

75-EL-01 ELLIOTJ, R.J./ KLEPPMANN, W.G.
 NEUTRON SCATTERING BY ELECTRONS IN A MAGNETIC FIELD
 J. PHYS., C, LONDON, V.8, P.2737 (1975)
 NEUTRON-SCATTERING-IN-SOLIDS/ MAGNETIC-SCATTERING ..THE
 ORY ..DIAMAGNETIC SCATTERING FROM CONDUCTION ELECTRON/
 WIGNER LATTICE IN STRONG MAGNETIC FIELD

75-EN-01 ENDOH, Y./ SHIRANE, G./ SKALYO-JR, J.
 LATTICE DYNAMICS OF SOLID NEON AT 6.5 AND 23.7K
 PHYS. REV. B, V.11, P.1681 (1975)
 NE ..PHONON DISPERSION/ SOLID NE

75-FA-01 FARR, M.K./ TRAYLOR, J.G./ SINHA, S.K.
 LATTICE DYNAMICS OF GA.SB
 PHYS. REV. B, V.11, P.1587 (1975)
 GA.SB ..LATTICE DYNAMICS/ COHERENT INELASTIC SCATTERING

75-FI-01 FIELEK, B.L.
 THE PHONON DISPERSION CURVES OF COPPER
 J. PHYS., F, LONDON, V.5, P.1451-P.1454 (1975)
 CU ..THEORY/ PHONON DISPERSION/ SCREENED SHELL MODEL

75-FI-02 FIELEK, B.L.
 LATTICE DYNAMICS OF NOBLE AND TRANSITION METALS
 J. PHYS., F, LONDON, V.5, P.17-P.26 (1975)
 CU/ NI ..THEORY/ PHONON DISPERSION/ METAL/ MODEL CALCUL
 ATION

75-FI-03 FINKMAN, E./ TAUC, J./ KERSHAW, R./ WOLD, A.
 LATTICE DYNAMICS OF TETRAHEDRALLY BONDED SEMICONDUCTORS
 CONTAINING ORDERED VACANT SITES
 PHYS. REV. B, V.11, P.3785-P.3794 (1975)
 IN2-TE3/ GA2-SE3/ GA2-S3 ..INFRARED, RAMAN SPECTRA/ DEF
 ECT STRUCTURE/ DISPERSION CURVES

75-FR-01 FRANCHETTI, S.
 RADIAL DISTRIBUTION FUNCTIONS IN SOLID AND LIQUID ARGON
 NUOVO CIM., B, V.26, P.507-P.521 (1975)
 AR ..THEORY/ DISPERSION/ RADIAL DISTRIBUTION

75-FU-01 FUJII, Y./ SHIRANE, G./ YAMADA, Y.
 STUDY OF THE 123-K PHASE TRANSITION OF MAGNETITE BY CRI

- TICAL NEUTRON SCATTERING
PHYS. REV. B, V.11, P.2036-P.2041 (1975)
MAGNETITE/ PHASE-TRANSITION ..EXPERIMENT/ 123DK TRANSIT
ION/ CRITICAL SCATTERING/ VERWEY ORDERING
- 75-GA-01 GARG, P.K./ GUPTA, N.P.
LATTICE DYNAMICS OF MOLECULAR SOLIDS BY A PHENOMENOLOGI
CAL MODEL
ANN, PHYS., N.Y., V.91, P.375-P.385 (1975)
NE/ AR/ KR/ XE ..LATTICE DYNAMICS/ ANHARMONICITY/ CENTR
AL FORCE MODEL/ DISPERSION RELATION
- 75-GO-01 GOEL, C.M./ PANDEY, B.P./ DAYAL, B.
PHONON DISPERSION IN SODIUM AND POTASSIUM
PHYS. STATUS SOLIDI B, V.69, P.589-P.593 (1975)
NA/ K ..THEORY/ PHONON DISPERSION/ METAL/ MODIFIED SHAR
MA-JOSHI MODEL
- 75-GO-02 GOPALARAU, R.V./ MURTHY, A.K.
STRUCTURE OF LIQUID NOBLE METALS
PHYS. LETT., A, V.51, P.3 (1975)
COPPER/ GOLD/ SILVER ..LIQUID NOBLE METAL ..STRUCTURE F
ACTOR
- 75-GR-01 GROUT, P.J./ LEECH, J.W./ ENGLISH, P.S.
THE SYMMETRY PROPERTIES OF THE NORMAL MODES OF VIBRATIO
N OF CRYSTALLINE CARBON DISULPHIDE AND CHLORINE
J. PHYS., C, LONDON, V.8, P.1620 (1975)
C.S2/ CL ..THEORY/ LATTICE DYNAMICS/ SOLID
- 75-GR-02 GROUT, P.J./ LEECH, J.W.
THE LATTICE DYNAMICS OF CRYSTALLINE DEUTERIUM CHLORIDE
(GROUP THEORETICAL ANALYSIS)
J. PHYS., C, LONDON, V.8, P.932-P.942 (1975)
H.CL ..THEORY/ GROUP THEORETICAL/ LATTICE DYNAMICS
- 75-GU-01 GUPTA, N.P./ GARG, P.K.
PHONON DISPERSION AND OPERATIVE INTERACTION SYSTEM IN S
OLID XENON
SOLID STATE COMMUN., V.16, P.607-P.610 (1975)
XE ..THEORY/ PHONON DISPERSION/ QUASIHARMONIC CENTRAL F
ORCE RIGID-ATOM MODEL
- 75-GO-01 GOETZE, W./ LUECKE, M.
DYNAMICAL CURRENT CORRELATION FUNCTIONS OF SIMPLE CLASS
ICAL LIQUIDS FOR INTERMEDIATE WAVE NUMBERS
PHYS. REV. A, V.11, P.2173-P.2190 (1975)
THEORY-OF-FLUIDS/ AR ..CLASSICAL FLUID/ EXCITATION SPEC
TRUM
- 75-HA-01 HANSEN, J.P./ McDONALD, I.R.
STATISTICAL MECHANICS OF DENSE IONIZED MATTER. IV. DENS
- ITY AND CHARGE FLUCTUATIONS IN A SIMPLE MOLTEN SALT
PHYS. REV. A, V.11, P.2111-P.2123 (1975)
THEORY-OF-FLUIDS ..MOLECULAR DYNAMICS/ MOLTEN SALT/ STR
UCTURE FACTOR/ SCATTERING FUNLTION
- 75-HA-02 HARADA, J./ FUJII, Y./ HOSHINO, S.
PHONON DISPERSION IN SOLID D.CL.1
SOLID STATE COMMUN., V.16, P.1365 (1975)
H.CL ..EXPERIMENT/ SOLID/ DISPERSION RELATION/ BORN-VON
-KARMAN MODEL/ TRIPLE-AXIS-SPECTROMETER
- 75-HE-01 HEIDEMANN, A.
HYPERFINE INTERACTION IN AMORPHOUS FERROMAGNETIC COBALT
-PHOSPHOROUS-ALLOYS MEASURED BY INELASTIC SCATTERING OF
NEUTRON
Z. PHYS. B, V.20, P.385-P.389 (1975)
CO.P/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNETIC HYPERF
INE SPLITTING
- 75-HE-02 HEIMENDAH, L.V./ THORPE, M.F.
PHONONS IN METALLIC GLASSES
J. PHYS., F, LONDON, V.5L, P.87-P.91 (1975)
THEORY-OF-SOLIDS ..PHONON SPECTRA/ METALLIC GLASSES
- 75-HE-03 HENNION, M./ HENNION, B./ CASTETS, A./ TOCCHETTI,
D.
STIFFNESS CONSTANT MEASUREMENT IN NI-FE ALLOYS BY NEUTR
ON INELASTIC SCATTERING
SOLID STATE COMMUN., V.17, P.899-P.902 (1975)
NI-FE/ MAGNETIC-SCATTERING ..STIFFNESS CONSTANT/ SPIN W
AVE
- 75-HO-01 HORIGUCHI, T./ MORITA, T.
NOTE ON THE LATTICE GREEN'S FUNCTION FOR THE SIMPLE CUB
IC LATTICE
J. PHYS., C, LONDON, V.8L, P.232 (1975)
THEORY-OF-SOLIDS ..THEORY/ SOLID/ GREEN'S FUNCTION ..CU
BIC LATTICE
- 75-HU-01 HUTCHINGS, M.T./ SCHERM, R./ SMITH, S.H./ SMITH, S
.R.P.
INELASTIC NEUTRON SCATTERING STUDIES OF THE JAHN-TELLER
PHASE TRANSITION IN TB.V.04
TB.V.04 ..INELASTIC NEUTRON SCATTERING/ JAHN-TELLER PHA
SE TRANSITION
- 75-IS-01 ISHIKAWA, Y./ KOHGI, M./ NODA, Y.
NEUTRON SCATTERING FROM ANTIFERROMAGNETIC GAMMA-FE(0.7)
-NI(0.15)-CR(0.15) ALLOY (NON MAGNETIC STAINLESS STEEL)
J. PHYS. SOC. JAP., V.39, P.675-P.683 (1975)
FE-NI-CR/ MAGNETIC-SCATTERING ..EXPERIMENT/ CANTED SPIN

STRUCTURE

- 75-JA-01 JAIN, S.K./ SRIVASTAVA, G.P.
PHONON DISPERSION CURVES FOR RUBIDIUM FLUORIDE
J. PHYS. SOC. JAP., V.38, P.1785-P.1785 (1975)
R.B.F. ..THEORY/ PHONON DISPERSION
- 75-JH-01 JHON, M.S./ FORSTER, D.
A KINETIC THEORY OF CLASSICAL SIMPLE LIQUIDS
PHYS. REV. A, V.12, P.254 (1975)
THEORY-OF-FLUIDS/ AR ..THEORY/ DYNAMICAL STRUCTURE FACTOR
- 75-KA-01 KAHN, R.
INELASTIC NEUTRON SCATTERING BY SOLID METHANE AT LOW TEMPERATURE
PHYS. LETT., A, V.54A, P.285-P.287 (1975)
C.H4 ..INELASTIC NEUTRON SCATTERING/ LOW TEMPERATURE/ EXPERIMENT
- 75-KA-02 KANDA, K./ KADOTANI, K./ AIZAWA, O.
EFFECT OF TEMPERATURE ON TOTAL CROSS SECTION OF BERYLLIUM FOR THERMAL NEUTRONS
J. NUCL. SCI., TECHNOL., TOKYO, V.12, P.601 (1975)
BE ..TOTAL CROSS SECTION/ EXPERIMENT
- 75-KA-03 KAPPUS, W.
LATTICE DYNAMICS OF SAPPHIRE (CORUNDUM)
Z. PHYS. B, V.21, P.325-P.331 (1975)
AL2.O3 ..LATTICE DYNAMICS/ RIGID ION/ THEORY
- 75-KA-04 KAPPUS, W.
LATTICE DYNAMICS OF SAPPHIRE (CORUNDUM), PART 2, CALCULATIONS OF PHONON DISPERSION
Z. PHYS. B, V.21, P.325-P.331 (1975)
CORUNDUM ..CALCULATION/ PHONON DISPERSION/ RIGID ION MODEL/ SAPPHIRE
- 75-KJ-01 KJEMS, J.K./ DOLLING, G.
CRYSTAL DYNAMICS OF NITROGEN, THE CUBIC ALPHA-PHASE
PHYS. REV. B, V.11, P.1639 (1975)
N ..INELASTIC NEUTRON SCATTERING
- 75-KU-01 KUMAR, S./ TOLPADI, S.
MODEL FOR LATTICE DYNAMICS IN METALS
SOLID STATE COMMUN., V.16, P.265 (1975)
COPPER/ SODIUM ..DISPERSION RELATION
- 75-KU-02 KUMAR, S./ TOLPADI, S.
MODEL FOR LATTICE DYNAMICS OF FCC METALS
PHYS. LETT., A, V.53, P.303-P.304 (1975)
CU ..MODEL CALCULATION/ PHONON DISPERSION
- 75-LA-01 LABUSCH, R.
SCATTERING OF COLD NEUTRONS FROM AN IMPERFECT FLUX LINE LATTICE
PHYS. STATUS SOLIDI B, V.69, P.539-P.544 (1975)
SCATTERING-THEORIES/ SUPERCONDUCTOR ..THEORY
- 75-LE-01 LEFEBRE, J./ MORE, M./ FOURET, R./ HENNION, B./ CURRAT, R.
LATTICE VIBRATIONS IN DEUTERATED UREA
J. PHYS., C, LONDON, V.8, P.2011 (1975)
UREA ..EXPERIMENT/ SOLID/ COHERENT SCATTERING/ DISPERSION ON RELATION/ DEUTERATED UREA
- 75-LI-01 LINDGARD, P.A./ BIRGENEAU, R.J./ ALS-NIELSEN, J./ GUGGENHEIM, H.J.
SPIN-WAVE DISPERSION AND SUBLATTICE MAGNETIZATION IN NiO
J. PHYS., C, LONDON, V.8, P.1059-P.1069 (1975)
NiO ..MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON
- 75-LO-01 LOVESEY, S.W.
THE DYNAMIC PROPERTIES OF LIQUID HE3
J. PHYS., C, LONDON, V.8, P.1649 (1975)
HE ..THEORY/ LIQUID/ STRUCTURE FACTOR/ SCATTERING LAW/ CORRELATION FUNCTION ..ISOTHERMAL SUSCEPTIBILITY/ LINDGARD-JONES POTENTIAL
- 75-LU-01 LUTY, T./ PAWLEY, G.S.
A SHELL MODEL FOR MOLECULAR CRYSTALS, ORTHORHOMBIC SULPHUR
PHYS. STATUS SOLIDI B, V.69, P.551-P.555 (1975)
S ..THEORY/ PHONON DISPERSION/ SHELL MODEL
- 75-LY-01 LYNN, J.W./ IIZUMI, M./ SHIRANE, G./ WERNER, S.A./ SAILLANT, R.B.
NEUTRON-SCATTERING STUDY OF THE ONE-DIMENSIONAL CONDUCTOR K2Pt(CN)4.BR0.3.(3.2)D20.(KCP)
PHYS. REV. B, V.12, P.1154 (1975)
KCP ..EXPERIMENT/ SOLID/ KOHN EFFECT/ DISPERSION RELATION ..TRIPLE AXIS TECHNIQUE/ ONE-DIMENSIONAL CONDUCTOR/ INTERCHAIN CORRELATION/ TEMPERATURE DEPENDENCE
- 75-MA-01 MALISZEWSKI, E./ SOSNOWSKI, J./ BEDNARSKI, S./ CZACHOR, A./ HOLAS, A.
LATTICE DYNAMICS OF Pd(1-x)-Fe(x) SYSTEM
J. PHYS., F, LONDON, V.5, P.1455-P.1465 (1975)
Pd-Fe ..EXPERIMENT/ PHONON DISPERSION
- 75-MA-02 MARTIN, J.W.
MANY-BODY FORCES IN METALS AND THE BRUGGER ELASTIC CONSTANTS

- J. PHYS., C. LONDON, V.8, P.2837-P.2858 (1975)
THEORY-OF-SOLIDS ..ELASTIC CONSTANT
- 75-MA-03 MARTIN, J.W.,
MANY-BODY FORCES IN SOLIDS AND BRUGGER ELASTIC CONSTANT
S. II, INNER ELASTIC CONSTANT
J. PHYS., C. LONDON, V.8, P.2858-P.2868 (1975)
THEORY-OF-SOLIDS ..INNER ELASTIC CONSTANTS/ NONCENTROSY
MMETRIC CRYSTALS
- 75-MA-04 MARTIN, J.W.,
MANY-BODY FORCES IN SOLIDS, ELASTIC CONSTANTS OF DIAMON
D-TYPE CRYSTALS
J. PHYS., C. LONDON, V.8, P.2869-P.2888 (1975)
THEORY-OF-SOLIDS ..ELASTIC CONSTANT/ DIAMOND STRUCTURE
- 75-MA-05 MAURYA, J.R./ SRIVASTAVA, R.S.,
CRYSTAL DYNAMICS OF THE HEXAGONAL METALS
J. PHYS., F. LONDON, V.5, P.2256-P.2261 (1975)
BE/ MG/ ZN ..THEORY/ PHONON DISPERSION/ HCP METAL/ TOYA
THEORY
- 75-MC-01 MCKENZIE, D.R.,
NEUTRON AND RAMAN STUDY OF THE LATTICE DYNAMICS OF DEUT
ERATED THIOUREA
J. PHYS., C. LONDON, V.8, P.2003 (1975)
THIOUREA ..SOLID/ EXPERIMENT/ TRIPLE-AXIS-SPECTROMETER/
DISPERSION RELATION/ DEUTERATED THIOUREA
- 75-MC-02 MCKENZIE, D.R.,
THE ANTIFEROELECTRIC TRANSITION IN THIOUREA STUDIED BY
THERMAL NEUTRON SCATTERING
J. PHYS., C. LONDON, V.8, P.1607 (1975)
THIOUREA ..EXPERIMENT/ TRIPLE-AXIS-SPECTROMETER/ SOLID/
DEUTERATED THIOUREA ..ANTIFEROELECTRIC TRANSITION/ ROTA
TIONAL LATTICE MODE
- 75-MC-03 MCWHAN, D.B./ BIRGENEAU, R.J./ BONNER, W.A./ TAUB,
H./ AXE, J.D.,
NEUTRON SCATTERING STUDY AT HIGH PRESSURE OF THE STRUCT
URAL PHASE TRANSITION IN PARATELLURITE
J. PHYS., C. LONDON, V.8, P.81-P.85 (1975)
TE.02 ..PHONON DISPERSION/ PRESSURE EFFECT/ PHASE TRANS
ITION
- 75-ME-01 MENZINGER, F./ SACCHETTI, F./ SPINELLI, M.C.,
CONCENTRATION DEPENDENCE OF THE PHONON DISPERSION RELAT
IONS IN SUBSTITUTIONAL FCL CO-NI ALLOY
PHYS., REV. B, V.12, P.2253-P.2259 (1975)
CO-NI ..DISPERSION RELATION/ CO-NI.ALLOY/ TRIPLE-AXIS S
PECTROSCOPY/ EXPERIMENT
- 75-MI-01 MIYAZAKI, Y./ ITO, M.,
NEUTRON INELASTIC SCATTERING SPECTRA AND LATTICE VIBRAT
IONS OF 9,10-ANTHRAQUINONE CRYSTAL
CHEM. PHYS. LETT., V.33, P.121-P.125 (1975)
ANTHRAQUINONE ..EXPERIMENT/ NEUTRON SCATTERING SPECTRA/
PHONON DENSITY CALCULATION
- 75-MO-01 MOELLER, H.B./ RISTE, T.,
NEUTRON-SCATTERING STUDY OF TRANSITIONS TO CONVECTION A
ND TURBULENCE IN NEMATIC PARA-AZOXYANISOLE
PHYS. REV. LETT., V.34, P.996-P.999 (1975)
P-AZOXYANISOLE ..EXPERIMENT/ NEMATIC LIQUID/ ONSET OF C
ONVECTION AND TURBULENCE
- 75-MO-02 MOOK, H.A./ WAKABAYASHI, N./ PAN, D.,
MAGNETIC EXCITATIONS IN THE AMORPHOUS FERROMAGNET CO4.P
PHYS. REV. LETT., V.34, P.1029-P.1033 (1975)
CO4.P/ MAGNETIC-SCATTERING ..EXPERIMENT/ MAGNON DISPERS
ION
- 75-MO-03 MORI, M./ YAMADA, Y./ SHIRANE, G.,
SOFT PHONON MODE AT THE MARTENSITIC PHASE TRANSFORMATIO
N OF AU,CU,ZN2
AU-CU-ZN/ PHASE-TRANSITION ..EXPERIMENT/ SOFT MODE/ AU,
CU,ZN2
- 75-NA-01 NAND, S./ TRIPATHI, B.B.,
LATTICE DYNAMICS OF GOLD: A PSEUDOPOTENTIAL APPROACH
PHYS. LETT., A, V.53, P.229 (1975)
AU ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATI
ON ..PSEUDOPOTENTIAL
- 75-NA-02 NAND, S./ TRIPATHI, B.B./ GUPTA, H.C.,
LATTICE DYNAMICS OF LITHIUM, A PSEUDOPOTENTIAL APPROACH
PHYS. LETT., A, V.54, P.217-P.218 (1975)
LI ..THEORY/ MODEL POTENTIAL APPROACH
- 75-NE-01 NELIN, G./ SKOELD, K.,
DIFFUSION OF HYDROGEN IN THE BETA-PHASE OF PD.H STUDIED
BY SMALL ENERGY TRANSFER NEUTRON SCATTERING
J. PHYS. CHEM. SOLIDS, V.36, P.1175 (1975)
PD-H ..EXPERIMENT/ QUASI-ELASTIC PEAK/ MULTIPLE SCATTER
ING/ CRYSTAL SPECTROMETER ..PHASE TRANSITION/ DIFFUSION
OF H
- 75-OH-01 OHASHI, K./ OHASHI, Y./ AWANO, M.,
PHONON FREQUENCY SHIFTS AND WIDTHS IN DILUTE ALLOYS
J. PHYS. SOC. JAP., V.38, P.842-P.847 (1975)
THEORY-OF-SOLIDS/ CU-AU ..DILUTE ALLOY/ PHONON SHIFT AN
D WIDTH

- 75-OL-01 OLSSON, L.G./ LARSSON, K.E.
MOLECULAR MOTIONS IN LIQUID ETHANE STUDIED BY COLD NEUTRON SCATTERING
PHYSICA, A, V.80, P.203-P.216 (1975)
ETHANE ..EXPERIMENT/ ROTATIONAL-DIFFUSIVE MOTION
- 75-PE-01 PETZELT, J.
SYMMETRY AND LATTICE-DYNAMIC ASPECT OF STRUCTURAL PHASE TRANSITIONS IN (C.H₃.N.H₃)₂.MN.CL₄ AND RELATED COMPOUNDS
J. PHYS. CHEM. SOLIDS, V.36, P.1005 (1975)
(C.H₃.N.H₃)₂.MN.CL₄ ..THEORY/ SOLID/ LATTICE DYNAMICS .PHASE TRANSITION
- 75-PO-01 POPLAVNOI, A.S./ TYUTEREV, V.G.
LATTICE DYNAMICS OF ZN.SI.P₂ IN A MODEL OF RIGID IONS
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.17 (V.17), P.1055-P.1060 (P.672-P.675) (1975 (1975))
ZN.SI.P₂ ..THEORY/ PHONON DISPERSION/ RIGID ION MODEL
- 75-PO-02 POPLAVNOI, A.S./ TYUTEREV, V.G.
DYNAMICS OF THE CRYSTAL LATTICE OF CHALCOPYRITE IN THE HARD ION MODEL
FIZ. TVERD. TELA (SOV. PHYS.-SOLID STATE), V.17 (V.17), P.313-P.316 (P.189-P.190) (1975 (1975))
CU.FE.S₂ ..CALCULATION/ PHONON SPECTRUM/ HARD ION MODEL
- 75-PO-03 POWELL, B.M./ MARTEL, P.
THE LATTICE DYNAMICS OF TELLURIUM
J. PHYS. CHEM. SOLIDS, V.36, P.1287-P.1298 (1975)
TE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATURE/ INTERATOMIC FORCE CONSTANT ..SPECIFIC HEAT
- 75-PO-04 POWLES, J.G.
THE SLOW-NEUTRON SCATTERING LAW FOR LIQUID NITROGEN
J. PHYS., C, LONDON, V.8L, P.229-P.231 (1975)
N ..SCATTERING LAW/ LIQUID
- 75-PR-01 PRASK, H.J./ TREVINO, S.F./ RUSH, J.J.
QUASIELASTIC NEUTRON SCATTERING STUDY OF AMMONIUM-ION ORIENTATIONS IN AMMONIUM PERCHLORATE
J. CHEM. PHYS., V.62, P.4156-P.4160 (1975)
AMMONIUM PERCHLORATE ..EXPERIMENT/ QUASIELASTIC/ 66-150 PK/ ROTATIONAL MOTION OF N.H₄ ION
- 75-PR-02 PRICE, D.L./ COPLEY, J.R.D.
DENSITY FLUCTUATIONS IN MOLTEN SALTS. I. INELASTIC NEUTRON SCATTERING FROM LIQUID RB.BR
PHYS. REV. A, V.11, P.2124-P.2133 (1975)
RB.BR ..EXPERIMENT/ COMPUTER SIMULATION/ LIQUID/ 986DK
- 75-RE-01 REISSLAND, J.A./ ESE, O.
THE LATTICE DYNAMICS OF METALS USING THE SHAW MODEL POTENTIAL
J. PHYS., F, LONDON, V.5, P.110-P.120 (1975)
AL/ NA/ MG/ IN/ TL ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA/ MODEL POTENTIAL CALCULATION
- 75-RO-01 ROSENGREN, A./ JOHANSSON, B.
LATTICE DYNAMICS OF RUBIDIUM
J. PHYS., F, LONDON, V.5, P.629-P.636 (1975)
RB ..THEORY/ PHONON DISPERSION AND SPECTRA/ PSEYDOPOTENTIAL CALCULATION
- 75-RO-02 ROWE, J.M./ RUSH, J.J./ VAGELATOS, N./ PRICE, D.L./ HINKS, D.G.
CRYSTAL DYNAMICS OF K.C.N AND NA.C.N IN THE DISORDERED CUBIC PHASE
J. CHEM. PHYS., V.62, P.4551-P.4554 (1975)
K.C.N/ NA.C.N ..EXPERIMENT/ PHONON DISPERSION
- 75-SA-01 SAHOO, D./ VENKATARAMAN, G.
LATTICE DYNAMICS OF A CRYSTAL WITH A MOLECULAR IMPURITY
RRC-5 (1975)
THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MOLECULAR IMPURITY
- 75-SC-01 SCHOMMERS, W.
THE VELOCITY AUTOCORRELATION FUNCTION AND THE EFFECT OF THE LONG-RANGE INTERACTION IN LIQUID RUBIDIUM
SOLID STATE COMMUN., V.16, P.45 (1975)
RB ..THEORY/ LIQUID/ VELOCITY AUTOCORRELATION FUNCTION/ FREQUENCY DISTRIBUTION
- 75-SH-01 SHIRANE, G./ CHIKAZUMI, S./ AKIMITSU, J./ CHIBA, K./ MATSUI, M.
NEUTRON SCATTERING FROM LOW-TEMPERATURE PHASE OF MAGNETITE
J. PHYS. SOC. JAP., V.39, P.949-P.957 (1975)
MAGNETITE/ MAGNETIC-SCATTERING ..EXPERIMENT/ CHARGE ORDERING
- 75-SI-01 SIEGEL, E.
FURTHER JUSTIFICATION FOR THE CONCEPT OF A PERCUS-YEVICK TEMPERATURE IN LIQUID METALS
PHYS. CHEM. LIQUIDS, V.4, P.205-P.209 (1975)
THEORY-OF-FLUIDS ..PERCUS-YEVICK TEMPERATURE
- 75-SI-02 SIEGEL, E.
SOUND VELOCITY IN LIQUID BINARY ALLOYS AS CALCULATED VIA THE PERCUS-YEVICK LIQUID PHONON DISPERSION RELATION
PHYS. CHEM. LIQUIDS, V.4, P.211-P.215 (1975)

- THEORY-OF-FLUIDS .. LIQUID VIRTUAL CRYSTAL/ LONG WAVELENGTH SOUND VELOCITY/ LIQUID BINARY ALLOYS
- 75-SI-03 SIEGEL, E.
VIRTUAL CRYSTAL MODEL OF MELTING AND THE STRUCTURE FACTOR OF LIQUID ALLOYS.
PHYS. CHEM. LIQUIDS, V.4, P.217-P.231 (1975)
THEORY-OF-FLUIDS .. STRUCTURE FACTOR/ BINARY ALLOY LIQUID
- 75-SI-04 SIEGEL, E.
CALCULATION OF SOUND VELOCITIES OF LIQUID METALS AT THE MELTING POINT VIA THE PERCUS-YEVICK THEORY OF MELTING
PHYS. CHEM. LIQUIDS, V.4, P.233-P.240 (1975)
THEORY-OF-FLUIDS .. SOUND VELOCITY/ MELTING TEMPERATURE/ LIQUID METAL
- 75-SI-05 SIEGEL, E.
EQUIVALENCE OF THE PERCUS-YEVICK COLLECTIVE COORDINATE THEORY OF LIQUIDS WITH THE SELF-CONSISTENT FIELD THEORY OF MELTING
PHYS. CHEM. LIQUIDS, V.4, P.241-P.253 (1975)
THEORY-OF-FLUIDS .. MELTING/ STRUCTURE FACTOR/ DISPERSION RELATION
- 75-SI-06 SINCLAIR, R.N./ CLARKE, J.H./ DORE, J.C.
SINGLE-PARTICLE EXCITATIONS IN LIQUID NITROGEN
J. PHYS., C, LONDON, V.8L, P.41-P.42 (1975)
N .. EXPERIMENT/ LIQUID/ 77.4DK/ SINGLE PARTICLE EXCITATION
- 75-SI-07 SINGH, J./ PRAKASH, S.
PHONON DISPERSION IN SCANDIUM AND YTTRIUM
PHYS. LETT., A, V.53, P.164-P.166 (1975)
SC/ Y .. CALCULATION/ PHONON DISPERSION/ HCP METAL
- 75-SI-08 SINGH, R.K./ AGARWAL, M.K.
LATTICE DYNAMICS OF CSF BY EXTENDED THREE-BODY FORCE SHELL MODEL
SOLID STATE COMMUN., V.17, P.991-P.993 (1975)
CS.F .. PHONON DISPERSION RELATION/ SHELL MODEL/ THEORY
- 75-SI-09 SINHA, H.P./ UPADHYAYA, J.C.
PHONON DISPERSION IN SOME HCP TRANSITION METALS
PHYSICA, B+C, V.79, P.359-P.369 (1975)
SC/ Y/ ZR .. THEORY/ PHONON DISPERSION/ KREB MODEL
- 75-SN-01 SNEH, S./ DAYAL, B.
LATTICE DYNAMICS STUDY OF NA.F AND RB.F BY THE SHELL MODEL
PHYS. STATUS SOLIDI B, V.67, P.125-P.128 (1975)
- NA.F/ RB.F .. THEORY/ PHONON DISPERSION/ SIMPLE SHELL MODEL
- 75-SR-01 SRINIVASAN, R./ LAKSHMI, G./ RAMACHANDRAN, V.
VARIABLE-CHARGE SHELL MODEL FOR THE LATTICE DYNAMICS OF THALLOUS BROMIDE
J. PHYS., C, LONDON, V.8, P.2889-P.2896 (1975)
TL.BR .. THEORY/ PHONON DISPERSION/ SHELL-MODEL
- 75-SR-02 SRINIVASAN, R./ LAKSHMI, G./ RAMACHANDRAN, V.
MODE GRUENEISEN PARAMETERS AND THERMAL EXPANSION OF THALLOUS BROMIDE
J. PHYS., C, LONDON, V.8, P.2897-P.2902 (1975)
TL.BR .. THEORY/ GRUENEISEN PARAMETER/ SHELL MODEL
- 75-SR-03 SRIVASTAVA, G.P.
CALCULATION OF BOUNDS ON THE EIGENVALUE SPECTRUM OF ANHARMONIC PHONON COLLISION OPERATOR
PHYS. LETT., A, V.54, P.222-P.224 (1975)
THEORY-OF-SOLIDS .. ANHARMONIC PHONON/ COLLISION OPERATOR
- 75-ST-01 STASSIS, C./ DECKMAN, H.W.
MAGNETIC SCATTERING OF NEUTRONS
PHYS. REV. B, V.12, P.1885-P.1898 (1975)
MAGNETIC-SCATTERING .. MAGNETIC SCATTERING/ GENERAL THEORY
- 75-SW-01 SWAMINATHAN, K./ TEWARI, S.P./ KOTHARI, L.S.
A MODEL FOR THE PHONON FREQUENCY DISTRIBUTION FUNCTION FOR CRYSTALLINE POLYETHYLENE
PHYS. LETT., A, V.51, P.153-P.154 (1975)
POLYETHYLENE .. THEORY/ LATTICE DYNAMICS/ MODEL
- 75-TA-01 TAKAHASHI, H.
EXTENSION OF THE LYDDANE-SACKS-TELLER AND COCHRAN-COWLEY-KUROSAWA RELATIONSHIPS TO A COUPLED SYSTEM OF MANY MODES WITH DAMPING
PHYS. REV. B, V.11, P.1636 (1975)
THEORY-OF-SOLIDS .. COUPLED SYSTEM/ DAMPING
- 75-TA-02 TAUB, H./ PASSELL, L./ KJEMS, J.K./ CARNEIRO, K./ MLTAGUE, J.P.
NEUTRON-SCATTERING STUDIES OF THE STRUCTURE AND DYNAMICS OF AR-36 MONOLAYER FILM ADSORBED ON BASAL-PLANE-ORIENTED GRAPHITE
PHYS. REV. LETT., V.34, P.654-P.657 (1975)
AR-GRAPHITE .. EXPERIMENT/ AR-FILM/ ADSORBED ON GRAPHITE / 5DK
- 75-TA-03 TAUB, H./ PARENTE, C.B.R.
ANOMALOUS MAGNETIC CRITICAL BEHAVIOR OBSERVED IN NEUTRO

- N SCATTERING FROM HO,SB AND DY,SB
SOLID STATE COMMUN., V.16, P.857-P.860 (1975)
MAGNETIC-SCATTERING/ HO,SB/ DY,SB ..EXPERIMENT/ CRITICA
L SCATTERING
- 75-TE-01 TENTI, G./ DESAI, R.C.
KINETIC THEORY OF MOLECULAR GASES I MODELS OF THE LINEA
R WALDMANN-SNIDER COLLISION OPERATOR
CAN. J. PHYS., V.53, P.1266 (1975)
THEORY-OF-FLUIDS ..THEORY ..MODEL COLLISION OPERATOR/ K
INETIC EQUATION
- 75-TE-02 TENTI, G./ DESAI, R.C.
KINETIC THEORY OF MOLECULAR GASES 2 CALCULATION OF TIME
DEPENDENT CORRELATION FUNCTIONS
CAN. J. PHYS., V.53, P.1279 (1975)
THEORY-OF-FLUIDS ..THEORY/ CORRELATION FUNCTION
- 75-TH-01 THOMAS, M.W.
NEUTRON INELASTIC SCATTERING FROM HEXAMETHYLENETETRAMIN
E-D12 AND ADAMANTANE-D16
CHEM. PHYS. LETT., V.32, P.271-P.273 (1975)
ADAMANTANE/ HEXAMETHYLENETETRAMINE ..EXPERIMENT/ FREQUE
NCY SPECTRA/ 200-800 CM-1
- 75-TI-01 TIWARI, M.D.
LATTICE DYNAMICS OF GOLD
J. PHYS., F, LONDON, V.5L, P.184-P.186 (1975)
AU ..THEORY/ PHONON DISPERSION/ KREB MODEL
- 75-UP-01 UPADHYAYA, J.C./ SINHA, H.P.
LATTICE DYNAMICS OF HCP METALS
J. PHYS. CHEM. SOLIDS, V.36, P.975 (1975)
BE/ MG/ Y/ HO ..THEORY/ EXPERIMENT/ DISPERSION RELATION
..BHATIA MODEL
- 75-UP-02 UPADHYAYA, K.S./ SINGH, R.K.
THE LATTICE DYNAMICS OF ALKALINE EARTH OXIDES
J. PHYS. CHEM. SOLIDS, V.36, P.293-P.297 (1975)
CA, O/ SR, O ..THEORY/ LATTICE DYNAMICS/ THREE BODY FORCE
SHELL MODEL/ DHONON DISPERSION/ DEBYE TEMPERATURE
- 75-UP-03 UPADHYAYA, J.C./ SHARMA, S.S./ KULSHRESTHA, O.P.
CRYSTAL EQUILIBRIUM AND PHONON DISPERSION IN SOME BCC T
RANSITION METALS
PHYS. REV. B, V.12, P.2236-P.2242 (1975)
FE/ W/ MO/ V/ NB/ TA ..LATTICE DYNAMICS/ DISPERSION REL
ATION/ TRANSITION METAL/ THEORY
- 75-UP-04 UPADHYAYA, K.S./ SINGH, R.K.
THE LATTICE DYNAMICS OF ALKALINE EARTH OXIDES
J. PHYS. CHEM. SOLIDS, V.36, P.293-P.297 (1975)
- CA, O/ SR, O ..THEORY/ LATTICE DYNAMICS/ THREE-BODY FORCE
SHELL MODEL/ PHONON DISPERSION/ DEBYE TEMPERATURE
- 75-VA-01 VARDENY, Z./ GILAT, G./ PASTERNAK, A.
LATTICE DYNAMICS OF CU, CL
PHYS. REV. B, V.11, P.5175 (1975)
CU, CL ..SOLID/ THEORY/ DISPERSION RELATION/ LATTICE DYN
AMICS ..BREATHING SHELL MODEL/ RIGID ION MODEL
- 75-VE-01 VERMA, M.P./ GUPTA, B.R.K.
THREE-BODY-FORCE SHELL-MODEL STUDY OF PHONON DISPERSION
IN THE TRANSITION-METAL CARBIDES TA, C AND HF, C
PHYS. REV. B, V.12, P.1314 (1975)
TA, C/ HF, C ..THEORY/ DISPERSION RELATION/ SOLID ..THREE
-BODY-FORCE SHELL MODEL/ LONG-RANGE ION-ION INTERACTION
/ ANORMALOUS WIGGLES IN DISPERSION CURVE,
- 75-VO-01 VON-DER-OSTEN, W./ DORNER, B.
PHONON DISPERSION AG, BR AND EXCHANGE OF THE TRANSVERSE
MODE EIGENVECTORS AT L
SOLID STATE COMMUN., V.16, P.431 (1975)
AG, BR ..DISPERSION REACTION
- 75-WA-01 WAKABAYASHI, N./ SMITH, H.G./ NICKLOW, R.M.
LATTICE DYNAMICS OF HEXAGONAL MO, S2 STUDIED BY NEUTRON
SCATTERING
PHYS. REV. A, V.12, P.659-P.663 (1975)
MO, S2 ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING
- 75-WE-01 WEIS, J.J./ KLEIN, M.L.
THE DYNAMICAL STRUCTURE FACTOR S(Q, W) OF SOLID ALPHA-N2
J. CHEM. PHYS., V.63, P.2869-P.2873 (1975)
N2 ..COMPUTER SIMULATION/ SCATTERING FUNCTION/ SOLIDN2
- 75-WE-02 WESTERA, K./ COWLEY, E.R.
CELL-CLUSTER EXPANSION FOR AN ANHARMONIC SOLID
PHYS. REV. B, V.11, P.4008-P.4016 (1975)
THEORY-OF-SOLIDS ..ANHARMONIC SOLID/ CELL-CLUSTER EXPAN
SION/ THERMODYNAMIC PROPERTIES
- 75-WO-01 WOOD, R.F./ MOSTOLLER, M.
POSSIBILITY OF OBSERVING SELF-INTERSTITIALS IN CU AND A
L BY NEUTRONSCATTERING
PHYS. REV. LETT., V.35, P.45 (1975)
SCATTERING-THEORIES ..THEORY/ SOLID/ GREEN,S FUNCTION/
COHEREN SCATTERING ..INTERSTITIALS
- 75-YE-01 YELON, W.B./ VETTER, C.
NEUTRON SCATTERING STUDY OF THE MAGNETIC EXCITATIONS IN
FE, BR2
J. PHYS., C, LONDON, V.8, P.2760 (1975)
FE, BR2 ..EXPERIMENT/ THEORY ..MAGNETIC SCATTERING/ SPIN

WAVE SPECTRUM/ ANISOTROPY FIELD/ 2DK-9DK

75-YO-01 YOSHIDA, F./ TAKENO, S.
HIGH-FREQUENCY EXPANSION OF MEMORY FUNCTION IN CLASSICAL
L SIMPEE LIQUIDS
PROGR. THEORET. PHYS., KYOTO, V.53, P.293-P.304 (1
975)
THEORY-OF-FLUIDS/ AR . CLASSICAL SIMPLE LIQUID/ DYNAMIC
AL STRUCTURE FACTOR/ DISPERSION CURVE OF ELEMENTARY EXC
ITATION

761842

2672