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BIBLIOGRAPHY FOR THERMAL NEUTRON SCATTERING  
(FOURTH EDITION, 1973)

September 1973

The Thermalization Group  
Japanese Nuclear Data Committee

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

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BIBLIOGRAPHY FOR THERMAL NEUTRON SCATTERING (FOURTH EDITION, 1973)

The Thermalization Group\*, Japanese Nuclear Data Committee  
Japan Atomic Energy Research Institute

(Received August 21, 1973)

Summary

Thermalization Group of Japanese Nuclear Data Committee has continued the compilation and publication of the bibliography for thermal neutron scattering. The last one is the third edition of the bibliography (JAERI 4043, Third Edition) issued in 1971. The present one is the fourth edition which contains nearly nineteen hundreds articles, including the articles compiled in the old editions and all additions collected by the group members up to May 1973. They are needed for data evaluation which is one of the main activities of the committee.

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\* Group Members: J. Chihara: Japan Atomic Energy Research Institute, Y. Gotoh: Japan Atomic Energy Research Institute, S. Iijima: Nippon Atomic Industry Group Co., Ltd., M. Iizumi: Japan Atomic Energy Research Institute, M. Kadotani: Century Research Center Co., Ltd., Y. Nakahara: Japan Atomic Energy Research Institute, R. Nakashima: Hosei University, I. Otake: Fuji Electric Co., Ltd., M. Sakamoto: Japan Atomic Energy Research Institute, T. Sekiya: Osaka University

## 熱中性子散乱文献集（第4版，1973）

日本原子力研究所，シグマ研究委員会，熱化グループ\*

（1973年8月21日受理）

シグマ研究委員会の熱化グループでは熱中性子の散乱断面積の測定や計算に関連ある文献の収集を進めるとともに，文献目録の編集と出版を行なっている。この報告はこれまでに出版された第3版（JAERI 4043, 3rd Ed.）に続く第4版であり，1日版に含まれている文献の外に新たに1973年5月までにグループ員により集められたものも含め合計1900の文献を計算機により物質別に分類した文献目録である。これらの文献は委員会の主な活動分野である熱中性子散乱断面積の評価に必要とされるだけでなく，熱中性子による物性の研究においても広く役立つものである。なお3rd Ed. まではJAERI-REPORTとして出版していたが，今回の4th. Ed.よりJAERI-M REPORTとなった。

\* 熱化グループ・メンバー：

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BIBLIOGRAPHY FOR THERMAL NEUTRON SCATTERING (FOURTH EDITION, 1973)

The Thermalization Group, Japanese Nuclear Data Committee

INTRODUCTION

The compilation and publication of the bibliography for thermal neutron scattering have been continued by the Thermalization Group of Japanese Nuclear Data Committee. It contains the 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. However, the literatures on the magnetic scattering of thermal neutrons and the structure analysis by the neutron diffraction are excluded from this bibliography. It covers literatures published on journals, conference proceedings, report series and books. This is the fourth edition of "Bibliography for Thermal Neutron Scattering" which contains nearly nineteen hundreds literatures collected by the group members until May, 1973. They are ordered and classified by the computer system.

## ARRANGEMENT

The overall arrangement of the bibliography contains two lists indicated by the table of contents.

### List of Reference Numbers and Key Words:

In this list, every literature is listed under each kind of materials for which it contains relevant informations. This is an index by species of materials of every relevant literature. Thus, when any one article reports on a number of materials, it is listed for each material respectively. The material names are ordered alphabetically in each of six groups which are GENERAL ARTICLES, MONATOMIC ELEMENTS, ALLOYS, INORGANIC COMPOUNDS, ORGANIC COMPOUNDS and ADOSORPTION AND SOLUTIONS. Each entry contains a reference number (69MA03, 70BR15 for example), which identifies the articles in the list of refernces, the names of first two authors and key words.

### 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 refernce numbers). Each entry contains names of authors, title, refernce and key words.

ACKNOWLEDGMENT

The compilers would like to express their thanks to Mr. Y. Inami who has developed all of the computer programmes on this works.

M. Sakamoto

J. Chihara

CONTENTS

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

1.	GENERAL ARTICLES		
1.	1.	REVIEW-ARTICLES	1
1.	2.	NEUTRON-SCATTERING-IN-SOLIDS	2
1.	3.	NEUTRON-SCATTERING-IN-FLUIDS	3
1.	4.	THEORY-OF-SOLIDS	6
1.	5.	THEORY-OF-FLUIDS	8
1.	6.	SCATTERING-THEORIES	10
1.	7.	COMPILATIONS	11
1.	8.	COMPUTER-CODES	11
1.	9.	MISCELLANEOUS	12
2.	MONATOMIC ELEMENTS		
2.	1.	ALUMINIUM	13
2.	2.	ANTIMONY	13
2.	3.	ARGON	14
2.	4.	BERYLLIUM	15
2.	5.	BISMUTH	16
2.	6.	BROMINE	16
2.	7.	BROMINE	16
2.	8.	CADMIUM	17
2.	9.	CALCIUM	17
		AL	
		SB	
		AR	
		BE	
		BI	
		BR	
		BR2	
		CD	
		CA	

2.	10.	CARBON	.....	C	.....	17
2.	11.	CERIUM	.....	CE	.....	17
2.	12.	CESIUM	.....	CS	.....	17
2.	13.	CHROMIUM	.....	CR	.....	17
2.	14.	COBALT	.....	CO	.....	17
2.	15.	COPPER	.....	CU	.....	18
2.	16.	DEUTERIUM	.....	D	.....	18
2.	17.	DEUTERIUM	.....	D2	.....	18
2.	18.	DIAMOND	.....	DIAMOND	.....	18
2.	19.	GALLIUM	.....	GA	.....	19
2.	20.	GERMANIUM	.....	GE	.....	19
2.	21.	GOLD	.....	AU	.....	19
2.	22.	GRAPHITE	.....	GRAPHITE	.....	19
2.	23.	HAFNIUM	.....	HF	.....	20
2.	24.	HELIUM	.....	HE	.....	21
2.	25.	HOLMIUM	.....	HO	.....	22
2.	26.	HYDROGEN	.....	H	.....	22
2.	27.	HYDROGEN	.....	H2	.....	22
2.	28.	INDIUM	.....	IN	.....	23
2.	29.	IRON	.....	FE	.....	23
2.	30.	KRYPTON	.....	KR	.....	23
2.	31.	LEAD	.....	PB	.....	23
2.	32.	LITHIUM	.....	LI	.....	24
2.	33.	MAGNESIUM	.....	MG	.....	25
2.	34.	MERCURY	.....	HG	.....	25
2.	35.	MOLYBDENUM	.....	MO	.....	26
2.	36.	NEON	.....	NE	.....	26
2.	37.	NICKEL	.....	NI	.....	26
2.	38.	NIوبيUM	.....	NB	.....	27
2.	39.	NITROGEN	.....	N	.....	27
2.	40.	NITROGEN	.....	N2	.....	27
2.	41.	OXYGEN	.....	O	.....	27
2.	42.	OXYGEN	.....	O2	.....	27
2.	43.	PALLADIUM	.....	PD	.....	27
2.	44.	PLATINUM	.....	PT	.....	27

2.	45.	POTASSIUM	.....	K	.....	27
2.	46.	RUBIDIUM	.....	RB	.....	28
2.	47.	SCANDIUM	.....	SC	.....	28
2.	48.	SELENIUM	.....	SE	.....	28
2.	49.	SILICON	.....	SI	.....	29
2.	50.	SILVER	.....	AG	.....	29
2.	51.	SODIUM	.....	NA	.....	29
2.	52.	SULPHUR	.....	S	.....	30
2.	53.	TANTALUM	.....	TA	.....	30
2.	54.	TECHNETIUM	.....	TC	.....	30
2.	55.	TELLURIUM	.....	TE	.....	31
2.	56.	TERBIUM	.....	TB	.....	31
2.	57.	THALLIUM	.....	TL	.....	31
2.	58.	TIN	.....	SN	.....	31
2.	59.	TITANIUM	.....	TI	.....	32
2.	60.	TUNGSTEN	.....	W	.....	32
2.	61.	URANIUM	.....	U	.....	32
2.	62.	VANADIUM	.....	V	.....	32
2.	63.	XENON	.....	XE	.....	33
2.	64.	YTTTRIUM	.....	Y	.....	33
2.	65.	ZINC	.....	ZN	.....	33
2.	66.	ZIRCONIUM	.....	ZR	.....	34

3. ALLOYS

3.	1.	ALUMINIUM-THORIUM HYDRIDE	.....	AL-TH-H	.....	35
3.	2.	BARIUM HYDRIDE	.....	BA-H	.....	35
3.	3.	BARIUM-LITHIUM HYDRIDE	.....	BA-LI-H	.....	35
3.	4.	BISMUTH-LEAD	.....	BI-PB	.....	35
3.	5.	BISMUTH-LEAD-THALLIUM	.....	BI-PB-TL	.....	35
3.	6.	BISMUTH-THALLIUM	.....	BI-TL	.....	35
3.	7.	BISMUTH-ZINC	.....	BI-ZN	.....	35
3.	8.	CALCIUM HYDRIDE	.....	CA-H	.....	35
3.	9.	CERIUM HYDRIDE	.....	CE-H	.....	35

3.	10.	CHROMIUM-TUNGSTEN	.....	CR-W	.....	36
3.	11.	COPPER-ALUMINIUM	.....	CU-AL	.....	36
3.	12.	COPPER-BERYLLIUM	.....	CU-BE	.....	36
3.	13.	COPPER-GOLD	.....	CU-AU	.....	36
3.	14.	COPPER-MAGNESIUM	.....	CU-MG	.....	36
3.	15.	COPPER-NICKEL	.....	CU-NI	.....	36
3.	16.	COPPER-ZINC	.....	CU-ZN	.....	36
3.	17.	GERMANIUM-SILICON	.....	GE-SI	.....	36
3.	18.	IRON-ALUMINIUM	.....	FE-AL	.....	37
3.	19.	LANTHANUM HYDRIDE	.....	LA-H	.....	37
3.	20.	LEAD-MAGNESIUM	.....	PB-MG	.....	37
3.	21.	LEAD-SODIUM	.....	PB-NA	.....	37
3.	22.	LEAD-THALLIUM	.....	PB-TL	.....	37
3.	23.	MAGNESIUM HYDRIDE	.....	MG-H	.....	37
3.	24.	MANGANESE-COBALT	.....	MN-CO	.....	37
3.	25.	MAGNESIUM-LITHIUM	.....	MG-LI	.....	37
3.	26.	MANGANESE-PLATINUM	.....	MN-PT	.....	37
3.	27.	NICKEL-IRON	.....	NI-FE	.....	38
3.	28.	NICKEL-PALLADIUM	.....	NI-PD	.....	38
3.	29.	NIObIUM HYDRIDE	.....	NB-H	.....	38
3.	30.	NIObIUM-MOLYBDENUM	.....	NB-MO	.....	38
3.	31.	PALLADIUM HYDRIDE	.....	PD-H	.....	38
3.	32.	PALLADIUM-IRON	.....	PD-FE	.....	38
3.	33.	PALLADIUM-SILVER HYDRIDE	.....	PD-AG-H	.....	39
3.	34.	STRONTIUM HYDRIDE	.....	SR-H	.....	39
3.	35.	STRONTIUM-LITHIUM HYDRIDE	.....	SR-LI-H	.....	39
3.	36.	TANTALUM HYDRIDE	.....	TA-H	.....	39
3.	37.	TANTALUM-NIOBIUM	.....	TA-NB	.....	39
3.	38.	TERBIUM HYDRIDE	.....	TB-H	.....	39
3.	39.	THORIUM HYDRIDE	.....	TH-H	.....	39
3.	40.	TITANIUM HYDRIDE	.....	TI-H	.....	39
3.	41.	TITANIUM-URANIUM	.....	TI-U	.....	39
3.	42.	TITANIUM-ZIRCONIUM	.....	TI-ZR	.....	39
3.	43.	URANIUM HYDRIDE	.....	U-H	.....	40
3.	44.	VANADIUM-BERYLLIUM	.....	V-BE	.....	40

3.	45.	VANADIUM HYDRIDE	V-H	40
3.	46.	VANADIUM-NICKEL	V-NI	40
3.	47.	VANADIUM-PLATINUM	V-PT	40
3.	48.	YTTRIUM HYDRIDE	Y-H	40
3.	49.	YTTERBIUM HYDRIDE	YB-H	40
3.	50.	YTTRIUM-ZINC	Y-ZN	40
3.	51.	ZIRCONIUM HYDRIDE	ZR-H	40

4. INORGANIC COMPOUNDS

4.	1.	AMMONIA	N.H3	42
4.	2.	AMMONIUM AZIDE	N.H4.N3	42
4.	3.	AMMONIUM BROMIDE	N.H4.BR	42
4.	4.	AMMONIUM BROMOSTANNATE	(N.H4)2.SN.BR6	42
4.	5.	AMMONIUM CHLORIDE	N.H4.CL	42
4.	6.	AMMONIUM CHLOROSTANNATE	(N.H4)2.SN.CL6	43
4.	7.	AMMONIUM CHROMATE	(N.H4)2.CR.O4	43
4.	8.	AMMONIUM DICROMATE	(N.H4)2.CR2.O7	43
4.	9.	AMMONIUM DIHYDROGEN ORTHOPHOSPHATE	N.H4.H2.P.O4	43
4.	10.	AMMONIUM DISULFATE	(N.H4)2.S2.O8	43
4.	11.	AMMONIUM FLUOBERYLLATE	(N.H4)2.BE.F4	43
4.	12.	AMMONIUM FLUORIDE	N.H4.F	44
4.	13.	AMMONIUM FLUOSILICATE	(N.H4)2.SI.F6	44
4.	14.	AMMONIUM FLUOSULFONATE	N.H4.S.O3.F	44
4.	15.	AMMONIUM HEXAFLUOPHOSPHATE	N.H4.P.F6	44
4.	16.	AMMONIUM HYDROGEN SULFATE	N.H4.H.S.O4	44
4.	17.	AMMONIUM IODIDE	N.H4.I	44
4.	18.	AMMONIUM NITRATE	N.H4.N.O3	44
4.	19.	AMMONIUM PERCHLORATE	N.H4.CL.O4	45
4.	20.	AMMONIUM SULFATE	(N.H4.)2.S.O4	45
4.	21.	AMMONIUM THIOCYANATE	N.H4.C.N.S	45
4.	22.	ALUMINIUM CHLORIDE	AL.CL3	45
4.	23.	ALUMINIUM NITRIDE	AL.N	45
4.	24.	ALUMINIUM PHOSPHATE	AL.P.O4	45



4.	25.	ANALCITE	.....	.....	.....	45
4.	26.	APOPHYLLITE	.....	.....	.....	45
4.	27.	BARIUM CHLORATE	.....	BA.(CL.O3)2*H2.O	.....	45
4.	28.	BARIUM CHLORIDE	.....	BA.CL2	.....	46
4.	29.	BARIUM FLUORIDE	.....	BA.F2	.....	46
4.	30.	BARIUM OXIDE	.....	BA.O	.....	46
4.	31.	BARIUM TITANATE	.....	BA.TI.O3	.....	46
4.	32.	BERYLLIUM OXIDE	.....	BE.O	.....	46
4.	33.	CADMIUM FLUORIDE	.....	CD.F2	.....	47
4.	34.	CADMIUM SULFIDE	.....	CD.S	.....	47
4.	35.	CALCITE	.....	CA.C.O3	.....	47
4.	36.	CALCIUM FLUORIDE	.....	CA.F2	.....	47
4.	37.	CALCIUM HYDROXIDE	.....	CA.(O.H)2	.....	47
4.	38.	CALCIUM OXIDE	.....	CA.O	.....	47
4.	39.	CARBON DIOXIDE	.....	C.O2	.....	47
4.	40.	CALCIUM SULFATE DIHYDRATE	.....	CA.S.O4*2(H2.O)	.....	48
4.	41.	CARBON DISULFIDE	.....	C.S2	.....	48
4.	42.	CARBON OXIDE	.....	C.O	.....	48
4.	43.	CARBON TETRACHLORIDE	.....	C.CL4	.....	48
4.	44.	CARBON TETRAFLUORIDE	.....	C.F4	.....	48
4.	45.	CESIUM AZIDE	.....	CS.N3	.....	48
4.	46.	CESIUM CHLORIDE	.....	CS.CL	.....	48
4.	47.	CESIUM BROMIDE	.....	CS.BR	.....	49
4.	48.	CESIUM HYDROGEN CHLORIDE	.....	CS.H.CL2	.....	49
4.	49.	CESIUM HYDROSULFIDE	.....	CS.S.H	.....	49
4.	50.	CESIUM IODIDE	.....	CS.I	.....	49
4.	51.	CESIUM URANIUM BROMIDE	.....	CS2.U.BR6	.....	49
4.	52.	CHABAZITE	.....	CHABAZITE	.....	49
4.	53.	CHROMIUM(3) ACID	.....	H.CR.O2	.....	49
4.	54.	COBALT FLUORIDE	.....	CO.F2	.....	50
4.	55.	COBALT HYDROGEN CARBONYL	.....	H.CO.(C.O)4	.....	50
4.	56.	COBALT OXIDE	.....	CO.O	.....	50
4.	57.	COBALT(3) ACID	.....	H.CO.O2	.....	50
4.	58.	COPPER CHLORIDE DIHYDRATE	.....	CU.CL2*2(H2.O)	.....	50
4.	59.	COPPER IODIDE	.....	CU.I	.....	50

4.	60.	COPPER SULFATE	CU.S.04	50
4.	61.	CRISTBALITE	SI.O2	50
4.	62.	CUPROUS CHLORIDE	CU.CL	50
4.	63.	DICARBON HEXAFLUORIDE	C2.F6	50
4.	64.	DYSPROSIUM VANADATE	DY.V.04	51
4.	65.	GALLIUM ARSENIDE	GA.AS	51
4.	66.	GALLIUM PHOSPHIDE	GA.P	51
4.	67.	HAFNIUM CARBIDE	HF.C	51
4.	68.	HEAVY WATER	D2.O	51
4.	69.	HEXAMMINECOBALT IODIDE	CO.(N.H3)6.I2	52
4.	70.	HEXAMMINENICKEL IODIDE	NI.(N.H3)6.I2	52
4.	71.	HYDROGEN BROMIDE	H.BR	53
4.	72.	HYDROGEN CHLORIDE	H.CL	53
4.	73.	HYDROGEN CYANIDE	H.C.N	53
4.	74.	HYDROGEN FLUORIDE	H.F	53
4.	75.	HYDROGEN SULFIDE	H2.S	53
4.	76.	HYDRONIUM NITRATE	H3.O.N.03	53
4.	77.	INDIUM ANTIMONIDE	IN.SB	53
4.	78.	IRON HYDROGEN CARBONYL	H2.FE.(C.O)4	54
4.	79.	IRON FLUORIDE	FE.F2	54
4.	80.	LANTHANUM ALUMINATE	LA.AL.03	54
4.	81.	LANTHANUM CHLORIDE	LA.CL3	54
4.	82.	LANTHANUM TRIFLUORIDE	LA.F3	54
4.	83.	LEAD FLUORIDE	PB.F2	54
4.	84.	LEAD METATITANATE	PB.TI.03	54
4.	85.	LEAD SULFIDE	PB.S	54
4.	86.	LEAD TELLURIDE	PB.TE	54
4.	87.	LEAD ZIRCONATE	PB.ZR.03	54
4.	88.	LIGHT WATER	H2.O	55
4.	89.	LITHIUM CHLORIDE	LI.CL	58
4.	90.	LITHIUM FLUORIDE	LI.F	58
4.	91.	LITHIUM HYDRIDE	LI.H	58
4.	92.	LITHIUM HYDROXIDE	LI.O.H	58
4.	93.	LITHIUM NIOBATE	LI.NB.03	58
4.	94.	LITHIUM SULFATE MONOHYDRATE	LI2.S.04*H2.O	58

4. 95.	LITHIUM SULFATE	.....	LI2.S.O4.H2.O	58
4. 96.	LITHIUM YTTRIUM TETRAFLUORIDE	.....	LI.Y.F4	59
4. 97.	MAGNESIUM DIFLUORIDE	.....	MG.F2	59
4. 98.	MAGNESIUM HYDROXIDE	.....	MG.(O.H)2	59
4. 99.	MAGNESIUM LEAD	.....	MG2.PB	59
4.100.	MAGNESIUM OXIDE	.....	MG.O	59
4.101.	MAGNESIUM STANIDE	.....	MG2.SN	59
4.102.	MAGNESIUM.ZINC2	.....	MG.ZN2	59
4.103.	MANGANESE HYDROGEN CARBONYL (1)	.....	H.MN.(C.O)5	59
4.104.	MANGANESE HYDROGEN CARBONYL (2)	.....	H3.MN3.(C.O)12	60
4.105.	MANGANESE MONOXIDE	.....	MN.O	60
4.106.	MOLYBDENUM DISULFIDE	.....	MO.S2	60
4.107.	NICKEL MONOSULFIDE	.....	NI.S	60
4.108.	NIORIUM CARBIDE	.....	NB.C	60
4.109.	NIORIUM3.TIN	.....	NB3.SN	60
4.110.	POTASSIUM ACID FLUORIDE	.....	K.H.F2	60
4.111.	POTASSIUM AMMONIUM CHLORIDE	.....	K.N.H4.CL	60
4.112.	POTASSIUM AZIDE	.....	K.N3	60
4.113.	POTASSIUM BROMIDE	.....	K.BR	61
4.114.	POTASSIUM CHLORIDE	.....	K.CL	61
4.115.	POTASSIUM COBALT TRIFLUORIDE	.....	K.CO.F3	61
4.116.	POTASSIUM DIHYDROGEN FLUORIDE	.....	K.H2.F3	61
4.117.	POTASSIUM DIHYDROGEN PHOSPHATE	.....	K.H2.P.O4	61
4.118.	POTASSIUM FERROCYANIDE	.....	K4.FE.(C.N)6	62
4.119.	POTASSIUM HYDROGEN IRON CARBONYL	.....	K.H.FE.(C.O)4	62
4.120.	POTASSIUM HYDROGEN TRICHLOROACETATE	.....	K.H.(C.CL3.C.O2)2	62
4.121.	POTASSIUM IODIDE	.....	K.I	62
4.122.	POTASSIUM MANGANESE TRIFLUORIDE	.....	K.MN.F3	62
4.123.	POTASSIUM MONOHYDROGEN PHOSPHATE	.....	K2.H.P.O4	62
4.124.	POTASSIUM OXALATE	.....	K2.C2.O4*H2.O	62
4.125.	POTASSIUM PHOSPHATE	.....	K3.P.O4	62
4.126.	POTASSIUM RHENIUM HYDRIDE	.....	K2.RE.H9	63
4.127.	POTASSIUM TANTALATE	.....	K.TA.O3	63
4.128.	QUARTZ	.....	SI.O2	63
4.129.	RUBIDIUM AZIDE	.....	RB.N3	63

4.130.	RUBIDIUM BROMIDE	RB.BR	63
4.131.	RUBIDIUM CHLORIDE	RB.CL	63
4.132.	RUBIDIUM FLUOMANGANATE	RB.MN.F3	63
4.133.	RUBIDIUM FLUORIDE	RB.F	63
4.134.	RUBIDIUM IODIDE	RB.I	64
4.135.	RUTILE	TI.O2	64
4.136.	RUTHENIUM TETROXIDE	RU.O4	64
4.137.	SELENIUM TELLURIDE	SE.TE	64
4.138.	SILANE	SI.H4	64
4.139.	SILICA	SI.O2	64
4.140.	SILICON CARBIDE	SI.C	64
4.141.	SILVER BROMIDE	AG.BR	64
4.142.	SILVER CHLORIDE	AG.CL	65
4.143.	SODAMIDE	NA.N.H2	65
4.144.	SODIUM AZIDE	NA.N3	65
4.145.	SODIUM BROMIDE	NA.BR	65
4.146.	SODIUM CHLORIDE	NA.CL	65
4.147.	SODIUM DIHYDROGEN FLUORIDE	NA.H2.F3	65
4.148.	SODIUM FLUORIDE	NA.F	65
4.149.	SODIUM HYDROGEN CARBONATE	NA.H.C.O3	66
4.150.	SODIUM HYDROGEN FLUORIDE	NA.H.F2	66
4.151.	SODIUM HYDROSULFIDE	NA.S.H	66
4.152.	SODIUM IODIDE	NA.I	66
4.153.	SODIUM NITRATE	NA.N.O3	66
4.154.	SODIUM NIOBATE	NA.NB.O3	66
4.155.	SODIUM NITRITE	NA.N.O2	66
4.156.	SODIUM RHENIUM HYDRIDE	NA2.RE.H9	66
4.157.	STRONTIUM FLUORIDE	SR.F2	67
4.158.	STRONTIUM OXIDE	SR.O	67
4.159.	STRONTIUM TITANATE	SR.TI.O3	67
4.160.	TANTALUM CARBIDE	TA.C	67
4.161.	THALLOUS CHLORIDE	TL.CL	67
4.162.	THALLOUS BROMIDE	TL.BR	67
4.163.	THORIUM DIOXIDE	TH.O2	68
4.164.	TIN DIOXIDE	SN.O2	68

4.165.	TIN TELLURIDE	SN.TE	68
4.166.	TANGSTATE	CA.W.O4	68
4.167.	URANIUM CARBIDE	U.C	68
4.168.	URANIUM DIOXIDE	U.O2	68
4.169.	UREA	C.O(N.H2)2	68
4.170.	VANADIUM OXIDE	V.O2	69
4.171.	VANADIUM CILICIDE	V3.SI	69
4.172.	XENON TETROXIDE	XE.O4	69
4.173.	YTRIUM VANADATF	Y.V.O4	69
4.174.	ZINC OXIDE	ZN.O	69
4.175.	ZINC SELENIDE	ZN.SE	69
4.176.	ZINC SULFIDE	ZN.S	69
4.177.	ZIRCONIUM CARBIDE	ZR.C	69
4.178.	ZIRCONIUM TELLURIDE	ZN.TE	70

5. ORGANIC COMPOUNDS

5. 1.	ACENAPHTHENE	C12.H10	71
5. 2.	ACETIC ACID	C2.H4.O2	71
5. 3.	ACETYLENE	C2.H2	71
5. 4.	ADAMANTANE	C10.H16	71
5. 5.	ALCOHOL		71
5. 6.	ANILINE	C6.H7.N	71
5. 7.	ANTHRACENE	C14.H10	71
5. 8.	BENZENE	C6.H6	72
5. 9.	BIPHENYL	C12.H10	72
5. 10.	BIPHYLE		73
5. 11.	BUTANE	C4.H10	73
5. 12.	BUTANOL	C4.H10.O	73
5. 13.	CHLOROBENZENE	C6.H5.CL	73
5. 14.	CHLOROETHANE	C2.H5.CL	73
5. 15.	CHLORONAPHTHALENE	C10.H7.CL	73
5. 16.	CYANAMIDE	C.H2.N2	73
5. 17.	CYCLOHEXANE	C6.H12	73

5.	18.	CYCLOHEXANOL	.....	C6.H12.O	.....	73
5.	19.	DIAZOBICYCLOOCTANE	.....			74
5.	20.	DICALCIUM LEAD PROPIONATE	.....	(C3.H5.)2)6.CA2.PB	.....	74
5.	21.	DIBROMOBENZENE	.....	C6.H4.BR2	.....	74
5.	22.	DICHLOROBENZENE	.....	C6.H4.CL2	.....	74
5.	23.	DIMETHYLACETYLENE	.....			74
5.	24.	DIMETHYLBUTANE	.....			74
5.	25.	DIMETHYLSULPHONE	.....			74
5.	26.	DIMETHYLSULPHOXIDE	.....			74
5.	27.	DODECANE	.....	C12.H26	.....	74
5.	28.	EICOSANE	.....	C20.H42	.....	75
5.	29.	ETHANE	.....	C2.H6	.....	75
5.	30.	ETHANEDIOL	.....			75
5.	31.	ETHANOL	.....	C2.H5.O	.....	75
5.	32.	ETHYL CHLORIDE	.....	C2.H5.CL	.....	75
5.	33.	ETHYLENE	.....	C2.H4	.....	75
5.	34.	ETHYLENE GLYCOL	.....	C2.H6.O2	.....	75
5.	35.	FLUORINATED CYCLOHEXANE	.....			75
5.	36.	FORMIC ACID	.....	C.H2.O2	.....	75
5.	37.	GLYCELINE	.....	C3.H8.O3	.....	76
5.	38.	HEPTANE	.....	C7.H16	.....	76
5.	39.	HEXAMETHYLBENZENE	.....	C12.H18	.....	76
5.	40.	HEXAMETHYLENETETRAMINE	.....	C6.H12.N4	.....	76
5.	41.	MALONIC ACID	.....	C3.H4.O4	.....	76
5.	42.	MERCAPTAN	.....	C2.H6.S	.....	76
5.	43.	METHANE	.....	C.H4	.....	76
5.	44.	METHANETELLUROL	.....	C.H4.TF	.....	78
5.	45.	METHANOL	.....	C.H4.O	.....	78
5.	46.	METHYL IODIDE	.....	C.H3.I	.....	78
5.	47.	METHYLENE	.....	C.H2	.....	78
5.	48.	METHYLENE CHLORIDE	.....	C.H2.CL2	.....	78
5.	49.	NAPHTHALENE	.....	C10.H8	.....	78
5.	50.	NONADECANE	.....	C19.H40	.....	79
5.	51.	NYLON	.....			79
5.	52.	OXALIC ACID	.....	C2.H2.O4	.....	79

5.	53.	PARAFFINE	.....		79
5.	54.	PENTANE	.....	C5.H12	79
5.	55.	PENTANOL	.....	C5.H12.O	79
5.	56.	PHENANTHRENE	.....	C14.H10	79
5.	57.	PHENYL	.....		79
5.	58.	P-AZOXYANISOLE	.....		80
5.	59.	POLYACETALDEHYDE	.....		80
5.	60.	POLYACRYLONITRILE	.....		80
5.	61.	POLYDIMETHYLSILOXANE	.....		80
5.	62.	POLYETHYLENE	.....		81
5.	63.	POLYETHYLENEOXIDE	.....		81
5.	64.	POLYGLUTAMIC ACID	.....		81
5.	65.	POLYGLYCINE	.....		81
5.	66.	POLYOXYMETHYLENE	.....		82
5.	67.	POLYPEPTIDE	.....		82
5.	68.	POLYPROPYLENE	.....		82
5.	69.	POLYTRIFLUOROACETALDEHYDE	.....		82
5.	70.	POLYVINYL CHLORIDE	.....		82
5.	71.	POTASSIUM TRICHLOROACETATE	.....	K.C2.CL3.O2	82
5.	72.	POTASSIUM TRIFLUOROACETATE	.....	K.C2.F3.O2	82
5.	73.	PROPANE	.....	C3.H8	82
5.	74.	PROPANOL	.....	C3.H8.O	82
5.	75.	PROPIONIC ACID	.....	C3.H6.O2	83
5.	76.	PYRAZINE	.....	C4.H4.N2	83
5.	77.	PYRIDINE	.....		83
5.	78.	RESIN	.....		83
5.	79.	RUBBER	.....		83
5.	80.	TEFLON	.....		83
5.	81.	TERPHENYL	.....	C18.H14	83
5.	82.	TOLUENE	.....	C7.H8	83
5.	83.	TRICHLOROMETHANE	.....	C.H.CL3	83
5.	84.	TRIFLUOROETHANE	.....	C.H3.C.F3	83

6.	ADSORPTIONS AND SOLUTIONS		
6.	1.	ALCOHOL-WATER	85
6.	2.	AMMONIA-ZEOLITE	85
6.	3.	AMMONIUM FLUORIDE-WATER	85
6.	4.	DIETHYL DIETHYLENE GLYCOL-CARBON DISULFIDE	85
6.	5.	ETHYL ETHER-CARBON SULFIDE	85
6.	6.	HYDROGEN FLUORIDE-WATER	85
6.	7.	METHANE-QUINOL	85
6.	8.	METHANOL-QUINOL	85
6.	9.	METHYL CYANIDE-QUINOL	85
6.	10.	WATER-ALUMINA	85
6.	11.	WATER-BERYL	86
6.	12.	WATER-QUINOL	86
6.	13.	WATER-SILICA	86

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



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 SINGW! 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 NIJOBE, KOKKEDEE REVIEW-ARTICLES ..SCATTERING THEORY/ SOLID/ LIQUID ..(THIS IS TRANSLATED FROM NED. TIJDS
- 64-SJ-01 SJOFLANDER REVIEW-ARTICLES ..SCATTERING THEORY
- 65-FG-01 EGELSTAFF REVIEW-ARTICLES ..THEORY/ EXPERIMENT ..BOOK
- 65-FG-02 EGELSTAFF REVIEW-ARTICLES ..LIQUID
- 65-FG-03 EGELSTAFF, SCHOFIELD REVIEW-ARTICLES ..LIQUID/ THEORY/ FREQUENCY SPECTRUM/ CORRELATION FUNCTION/ SCATTERIN
- 65-FG-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-02 PALEVSKY REVIEW-ARTICLES ..EXPERIMENT/ MOLECULAR DYNAMICS
- 65-TU-02 TURCHIN REVIEW-ARTICLES ..BOOK
- 65-ZY-01 JAPANESE NUCLEAR DATA COMMITTEE + REVIEW-ARTICLES ..GROSS 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-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-ZY-01 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE + REVIEW-ARTICLES ..DYNAMICS OF SOLIDS AND LIQUIDS
- 69-BO-02 BOFFI, CAGLIOTI REVIEW-ARTICLES ..LATTICE DYNAMICS
- 69-BO-03 BOFFI, CAGLIOTI REVIEW-ARTICLES ..LATTICE DYNAMICS/ EXPERIMENT/ TOF
- 69-BO-04 BOFFI, CAGLIOTI REVIEW-ARTICLES ..LATTICE DYNAMICS/ IONIC CRYSTAL/ METAL/ FERROELECTRIC MATERIAL
- 69-BO-05 BOFFI, CAGLIOTI REVIEW-ARTICLES ..NEUTRON SPECTROSCOPY/ LATTICE DYNAMICS

70-FA-04 PARKS, NELKIN+ REVIEW-ARTICLES ••BOOK/ THEORY/ EXPERIMENT/ NEUTRON SCATTERING/ REACTOR PHYSICS  
 70-RA-05 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-YE-01 VENKATARAMAN, SAHNI THEORY-OF-SOLIDS/ REVIEW-ARTICLES ••FORMAL THEORY/ MOLECULAR CRYSTAL/ COMPLEX IONIC CK  
 70-7Y-01 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE + REVIEW-ARTICLES ••DYNAMICS OF SPIN SYSTEM AND POLYMER  
 71-HA-05 HARRYMAN, REYNOLDS+ REVIEW-ARTICLES ••DENSITY OF STATES/ PHONON/ AROMATIC CRYSTAL  
 72-AL-02 ALLEN REVIEW-ARTICLES ••POLYMER CHAIN/ DYNAMICS  
 72-HA-08 BAUR REVIEW-ARTICLES ••POLYMER-CRYSTAL/ PHONON/ DISPERSION CURVE/ THERMAL PROPERTIES  
 72-GH-01 GHATAK, KUTHARI REVIEW-ARTICLES ••BOOK/ LATTICE DYNAMICS/ NEUTRON SCATTERING  
 72-HA-01 HATAKE, 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, VANDE\*AL REVIEW-ARTICLES ••STRUCTURE ANALYSIS/ MAGNETIC STRUCTURE/ PHONON/ MAGNON/ POLARIZED NEUTR

1. 2 NEUTRON-SCATTERING-IN-SOLIDS

44-W-E-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 SWITRES NEUTRON-SCATTERING-IN-SOLIDS/ AL ••THEORY/ LATTICE VIBRATION/ FREQUENCY DISTRIBUTION ••ENERGY U  
 57-SJ-01 SJOFLANDEF NEUTRON-SCATTERING-IN-SOLIDS ••SCATTERING THEORY/ SOLIDS/ LATTICE VIBRATION  
 57-TU-01 TURCHIN NEUTRON-SCATTERING-IN-SOLIDS ••THEORY/ SOLID  
 59-HU-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 KRIEGER 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 KOKKEDDEE NEUTRON-SCATTERING-IN-SOLIDS ••THEORY ••PHONON-PHONON INTERACTION/ ELECTRON-PHONON INTERACTION  
 63-TH-01 THOMSON NEUTRON-SCATTERING-IN-SOLIDS ••ANHARMONICITY/ SOLID/ LATTICE DYNAMICS/ SCATTERING THEORY  
 64-PA-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/ S/ 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-02 GINZBURG, MALEEY NEUTRON-SCATTERING-IN-SOLIDS \*\*SCATTERING THEORY \*\*NEUTRON SCATTERING BY CONDUCTION ELFCET  
 66-KR-01 KRIVOGLAZ, TIKHONOVA NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY  
 67-EL-03 ELLIOT, TAYLOR NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ LATTICE DYNAMICS \*\*IMPURITY EFFECT  
 67-FL-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 KRERS, 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-RU-06 RUZANO, 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-09 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/ NEUTRON-SCATTERING-IN-FLUIDS \*\*SCATTERING BY MOLECULES/ LECTURES  
 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 ATOM  
 69-BL-01 BLESSER, PERETTI+ NEUTRON-SCATTERING-IN-SOLIDS/ V \*\*THEORY/ HYDRUGEN/ INTERSTITIAL \*\*NUMERICALS  
 69-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS/ BASTI.03/ K\*H2.P.04/ NA.N.02 \*\*THEORY/ DIELECTRIC/ CRITICAL SCATT  
 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/ PAIR CORRELATION  
 70-AU-01 AUGST NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ IMPURITY EFFECT/ CUBIC CRYSTAL/ PHONON  
 70-TA-01 TANI NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ LATTICE VIBRATION/ GENERALIZED THEORY OF NEUTRON SCATTER  
 71-DZ-01 DZYUB, KOCHMARSKY THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ LOCALIZED VIBRATION/ NUMERICAL CALCULATION  
 71-MU-01 MURTAZIN NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ SOLIDS/ LATTICE DYNAMICS/ ANHARMONICITY/ SCATTERING LA  
 71-PL-01 PLAKIDA NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ SOLIDS/ LATTICE DYNAMICS/ ANHARMONICITY/ SCATTERING LA  
 71-ST-01 STAMENKOVIC NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ FERROELECTRICS  
 71-ST-02 DZYUB, KOCHMARSKY NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ FERROELECTRICS  
 72-DZ-02 DZYUB, KOCHMARSKY NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ FERROELECTRICS  
 72-GI-02 GISSLER NEUTRON-SCATTERING-IN-SOLIDS \*\*HYDROGEN IN METAL  
 72-PU-01 PUSTOVOIT THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS \*\*SEMICONDUCTOR/ SOUND-INSTABILITY CONDITION/ X-  
 72-TA-04 TANI NEUTRON-SCATTERING-IN-SOLIDS \*\*THEORY/ NEUTRON SCATTERING BY PHONON/ PHASE TRANSITION

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 ..LIQUID DYNAMICS/ JUMP DIFFUSION MODEL  
61-CH-01 CHUDLEY, ELLIOTT NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ NORMAL LIQUIDS  
61-DE-01 DE-GENNES NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY  
61-MO-01 MORALES-AMADO, OSBORN NEUTRON-SCATTERING-IN-FLUIDS/ PB ..THEORY ..LIQUID DYNAMICS  
61-RA-01 RAHMAN, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ SCATTERING FUNCTION  
61-RA-02 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ MOLECULAR DYNAMICS/ C.H4  
61-RA-03 RAHMAN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ ELASTIC CROSS SECTION  
62-CO-02 COLF NEUTRON-SCATTERING-IN-FLUIDS/ H2.O ..THEORY/ LIQUID ..LIQUID DYNAMICS  
62-EG-01 EGGLESTAFF NEUTRON-SCATTERING-IN-FLUIDS ..THEORY  
62-GL-01 GLAUBER NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ GAS/ SCATTERING FUNCTION  
62-MC-02 MCMURRY HE/ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID/ SCATTERING LAW/ CORRELATION FUNCTION ..LI  
62-PA-02 PARRY, TURNER NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID DYNAMICS  
62-RA-01 RAHMAN, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS  
62-RA-02 RAHMAN, SINGWI+ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ LIQUID  
62-YI-01 YIP, OSBORN NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ LIQUID ..FERMI LIQUID/ ZERO-SOUND/ SPIN  
63-AK-01 AKHIEZER+ NEUTRON-SCATTERING-IN-FLUIDS ..THEORY  
63-CO-05 COLE NEUTRON-SCATTERING-IN-FLUIDS ..THEORY ..LIQUID DYNAMICS/ QUASI-CRYSTALLINE MODEL  
63-OS-01 OSALSKII NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ H2.O/ PB ..THEORY/ LIQUID/ FREQUENCY DISTRIBUTION/ SCATT  
63-SI-03 SINGWI, SJOELANDER+ NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING LAW/ MEAN SQUARE DISPLACEMENT/ DIFFUSION PARAMETER/ L  
64-EG-01 EGGLESTAFF NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY  
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/ G  
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-NF-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, ANDFRSON NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY ..KOHN EFFECT  
65-TU-03 TURCHIN, TARASOV NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY ..DILUTE GAS/ SCATTERING FUNCTION  
65-YI-01 YIP, RANGANATHAN NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY ..ENGLISH TRANSLATION FOR THIS PAPER IS  
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-03 DESAI, NELKIN NEUTRON-SCATTERING-IN-FLUIDS ..SCATTERING THEORY/ GAS/ CORRELATION FUNCTION ..NEUTRON DIFFUS  
66-DO-02 DORNER NEUTRON-SCATTERING-IN-FLUIDS ..EXPERIMENT/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ DISPERSION REL  
66-IV-01 IVANOV NEUTRON-SCATTERING-IN-FLUIDS ..THEORY/ MOLECULAR DYNAMICS ..GENERAL-THEORIES  
66-IV-02 IVANOV NEUTRON-SCATTERING-IN-FLUIDS ..MOLECULAR DYNAMICS ..LINEAR MOLECULES  
66-KU-01 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 .L 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-VL-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 EGGLESTAFF 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-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 .GCR.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-CO-11 COWLEY NEUTRON-SCATTERING-IN-FLUIDS .TIME-OF-FLIGHT/ COLLECTIVE MODE  
 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-LA-02 LARSSON NEUTRON-SCATTERING-IN-SOLIDS/ NEUTRON-SCATTERING-IN-FLUIDS .SCATTERING BY MOLECULES/ LECTURES  
 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-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-02 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-02 CHUNG, YIP NEUTRON-SCATTERING-IN-FLUIDS .THEORY/ CORRELATION 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/ AR .DISPERSION  
 70-LA-01 LADO NEUTRON-SCATTERING-IN-FLUIDS .VLASOV EQUATION/ THEORY .TIME-DEPENDENT DIRECT CORRELATION FUNCT  
 70-OR-01 ORTOLEVA-JR NEUTRON-SCATTERING-IN-FLUIDS .VLASOV EQUATION/ THEORY  
 70-OR-02 ORTOLEVA, NELKIN NEUTRON-SCATTERING-IN-FLUIDS .THEORY/ VLASOV EQUATION/ COLLECTIVE MODES  
 70-RA-05 RAO REVIEW-ARTICLES/ NEUTRON-SCATTERING-IN-FLUIDS .ATOMIC CORRELATION/ LIQUID  
 71-AI-01 ALLAWADI, RAHMAN+ NEUTRON-SCATTERING-IN-FLUIDS .THEORY/ CURRENT-CORRELATION-FUNCTION .GAUSSIAN-DECAY-MEM  
 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 .RUASI-ELASTIC-PEAK/ THEORY .UNCORRELATED TRANSLATIONAL AND ROTA  
 71-NA-01 NAKAHARA NEUTRON-SCATTERING-IN-FLUIDS/ NA .THEORY/ SCATTERING SIGMA/ LIQUID METAL  
 71-NI-05 NISHIGORI, SEKIYA NEUTRON-SCATTERING-IN-FLUIDS .THEORY/ SCATTERING SIGMA/ MEAN-SQUARE DISPLACEMENT  
 71-NI-06 NISHIGORI, SEKIYA NEUTRON-SCATTERING-IN-FLUIDS/ H<sub>2</sub>O .THEORY/ SCATTERING SIGMA/ GAS  
 71-RO-04 ROSCISZEWSKI NEUTRON-SCATTERING-IN-FLUIDS .THEORY/ INCOHERENT/ QUASI-ELASTIC/ LIQUID CRYSTAL  
 72-SE-01 SEARS NEUTRON-SCATTERING-IN-FLUIDS .THEORY/ LIQUID/ SCATTERING FUNCTION/ SCATTERING THEORY

1. 4 THEORY-OF-SOLIDS

58-SJ-01 SJOELANDER THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..SCATTERING CROSS SECTION  
63-BA-03 RARRON, LEADBETTER+ THEORY-OF-SOLIDS ..DEBYE-WALLER FACTOR/ THEORY  
63-CO-02 COCHRAN, COWLEY THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY  
63-SW-02 SWIRES 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, 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-LF-01 LFHMAN, WOLFRAM+ THEORY-OF-SOLIDS ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS  
65-MA-03 MARADUDIN THEORY-OF-SOLIDS ..ANHARMONICITY/ THEORY ..HELMHOLTZ FREE ENERGY  
65-PA-03 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, / FUKUJI THEORY-OF-SOLIDS ..PSEUDOPOTENTIAL  
66-BL-01 BLANK, KANER THEORY-OF-SOLIDS ..THEORY/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS/ SOLID ..METAL  
66-CZ-01 CZACHOR THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ THEORY/ SOLID/ DISPERSION RELATION ..METAL  
66-DE-01 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-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-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-06 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-DE-MEVRIGNIES 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 IYFNGAR THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..LECTURE NOTE

68-KA-01 KAGAN, BRUYMAN THEORY-OF-SOLIDS ..LATTICE DYNAMICS ..METAL/ ELECTRON CONTRIBUTION  
 68-KO-03 KOTHARI, SINGAL THEORY-OF-SOLIDS ..THEORY/ LATTICE DYNAMICS  
 68-LF-02 LEIFRIED, 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-LF-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-RA-01 RANNINGER THEORY-OF-SOLIDS ..CORRELATION FUNCTION/ SECOND SOUND ..CRYSTAL LATTICE  
 69-SH-01 SHARAN, RAJPAI THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FORCE CONSTANT/ ELASTIC CONSTANT ..BODY CENTRED TETRAG  
 69-SI-01 SINHA THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ SOLID/ THEORY  
 69-TO-01 TONG, MARADUDIN THEORY-OF-SOLIDS ..THEORY  
 69-WU-01 WU, TAYLOR THEORY-OF-SOLIDS ..THEORY/ FREQUENCY SPECTRUM/ CHAIN  
 70-AC-01 ACHAR, BAKSH THEORY-OF-SOLIDS ..THEORY ..DEFECT/ LOCALIZED MODE  
 70-RO-02 ROCCHIERI, 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-KF-04 KERR, SJOELANDER THEORY-OF-SOLIDS ..LATTICE DYNAMICS  
 70-KU-02 KUSHWAHA, RAJPUT THEORY-OF-SOLIDS/ NA, K ..PHONON DISPERSION CURVE/ METAL/ BCC  
 70-RI-02 RIFDER THEORY-OF-SOLIDS ..THEORY/ LIGHT IMPURITY MODE/ ESTIMATION OF FORCE CONSTANT CHANGE  
 70-RI-03 RIFDER 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 SLAGGIF THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ SOLID  
 70-TA-02 TAYLOR, WU THEORY-OF-SOLIDS ..GLASS/ DISORDERED LATTICE/ FREQUENCY SPECTRUM ..AMORPHOUS  
 70-VF-01 VENKATARAMAN, SAHNI THEORY-OF-SOLIDS/ REVIEW-ARTICLES ..FORMAL THEORY/ MOLECULAR CRYSTAL/ COMPLEX IONIC CR  
 70-WF-03 WERTHAMER THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ ANHARMONICS ..PRESSURE/ ELASTIC CONSTANT/ SPECIFIC HEAT  
 71-BU-01 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 KLFIN, 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-LF-01 LEIGH, SZIGETI+ THEORY-OF-SOLIDS ..THEORY/ FORCE CONSTANT/ PHONON FREQUENCY  
 71-MA-02 MURTAZIN THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS ..THEORY/ INTERSTITIAL IMPURITIES/ TWO-TIME GREEK  
 71-NU-01 NAMJOSHI, MITRA+ THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MICROSCOPIC THEORY/ SHELL MODEL/ INSULATORS  
 71-PI-01 PICK THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ ANHARMONIC METAL/ PHONON SPECTRUM  
 71-PL-02 PLAKIDA THEORY-OF-SOLIDS ..THEORY/ FREQUENCY DISTRIBUTION FUNCTION ..ORIENTATIONAL ORDER DISORDER TR  
 71-RA-02 RATCH, ETTERS THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ MICROSCOPIC APPROACH  
 71-SI-02 SINHA, GUPTA THEORY-OF-SOLIDS ..LATTICE DYNAMICS/ FORCE CONSTANTS  
 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-04 COWLEY THEORY-OF-SOLIDS/ SCATTERING-THEORIES ..THEORY/ PHONON/ ALLOYS/ ORDER-DISORDER STATE  
 72-DZ-01 DZYUB, KOCHMARSKY THEORY-OF-SOLIDS ..PHONON DISPERSION/ WITH SUBSTITUTIONAL 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/ DYNAMICS/ 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-04 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 NAMATAZAWA THEORY-OF-SOLIDS ..THEORY/ QUANTUM LATTICE DYNAMICS/ PHONON DISPERSION  
 72-PA-04 PASZKIEWICZ THEORY-OF-SOLIDS ..THEORY/ SOLID/ ANHARMONICITY ..ELASTIC CONSTANTS  
 72-PU-01 PUSTOVOIT THEORY-OF-SOLIDS/ NEUTRON-SCATTERING-IN-SOLIDS ..SEMICONDUCTOR/ SOUND-INSTABILITY CONDITION/ X-  
 72-RU-01 RIVALDS, 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 NB3SN/ 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-04 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 WAFER GA/ THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS ..METAL/ ORTHORHOMBIC  
 72-YA-02 YAMADA THEORY-OF-SOLIDS ..SPIN-PHONON INTERACTION/ LATTICE INSTABILITY

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-05 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 AR/ THEORY-OF-FLUIDS ..LIQUID/ THEORY ..HIGH-FREQUENCY RESPONSE  
 67-BO-01 BOON, RICE AR/ THEORY-OF-FLUIDS ..THEORY/ LIQUID ..MOMENTUM AUTO-CORRELATION FUNCTION  
 67-LF-01 LEFROWITZ, 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-DA-02 DAMLE, SJOELANDER+ THEORY-OF-FLUIDS ..LIQUID/ FREQUENCY SPECTRUM/ THEORY ..ITINERANT-OSCILLATOR-MODEL  
 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-GL-05 GLASS, RICE THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION/ THEORY/ NEUTRON SCATTERING ..ONE-PARTICLE AND  
 68-GR-02 GROSS, WISNIVESKY THEORY-OF-FLUIDS ..KINETIC EQUATION/ HARD SPHERE GAS  
 68-KF-01 KERR THEORY-OF-FLUIDS ..LIQUID/ CORRELATION FUNCTION/ THEORY  
 68-LE-01 LEFROWITZ, PERCUS+ THEORY-OF-FLUIDS ..THEORY ..TIME DEPENDENT DISTRIBUTION FUNCTION/ ONE-DIMENSIONAL SYSTEM

## 1. 5 THEORY-OF-FLUIDS

68-MA-03 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-LF-05 LEROWITZ, 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-02 HARR, 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/ DISORDERED SYSTEM/ AMORPHOUS SOLID/ CLASSICAL LI  
72-AK-01 AKCASU, LINNEBUR THEORY-OF-FLUIDS •MODELLED KINETIC EQATION/ TWO DAMPING CONSTANT  
72-RA-05 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-03 CORNGOLD THEORY-OF-FLUIDS •THEORY/ AUTOCORRELATION/ MEMORY FUNCTION  
72-DU-02 DUFTY THEORY-OF-FLUIDS •CORRELATION FUNCTION  
72-EG-01 EGGLESTAFF THEORY-OF-FLUIDS/ SCATTERING-THEORIES •TIME DEPENDENT TRIPLET FUNCTION/ PKESSURE 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-07 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/ THOR  
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-MA-01 MAZENKO THEORY-OF-FLUIDS •THEORY/ FLUID/ VELOCITY AUTOCORRELATION  
73-MA-02 MAZENKO THEORY-OF-FLUIDS •THEORY/ FLUID/ DIFFUSION  
73-SE-01 SEARS NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS •THEORY/ FUUID/ SCATTERING FUNCTION

## 1. 6 SCATTERING-THEORIES

52-PL-01 PLACZEK SCATTERING-THEORIES ..TOTAL AND DIFFERENTIAL CROSS SECTION  
 54-VI-01 VINEYARD SCATTERING-THEORIES ..TEORY/ MULTIPLE SCATTERING  
 58-EG-01 EGELSTAFF BE/ MG/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ SOLID/ SIGMA(E, E-PRIME, THETA)/ SIGMA(E) ..O  
 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 EGLSTAFF SCATTERING-THEORIES ..SCATTERING THEORY ..DATA TREATMENT  
 61-FG-04 EGLSTAFF 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 AAMODT, CASE+ SCATTERING-THEORIES ..SCATTERING THEORY  
 62-FG-03 EGLSTAFF, SCHOFIELD SCATTERING-THEORIES/ H2.O/ PB ..EXPERIMENT/ THEORY/ LIQUID/ DIFFUSION PARAMETER ..ROO  
 62-FF-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-FG-02 EGLSTAFF SCATTERING-THEORIES ..SCATTERING LAW/ THEORY ..SELF TERM/ INTERFERENCE TERM  
 63-PL-01 PLUMMER, SUMMERFIELD SCATTERING-THEORIES ..THEORY  
 63-KA-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 NIJROER, 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 MATOROV SCATTERING-THEORIES ..SCATTERING FUNCTION  
 65-RO-02 ROSENBAUM, ZWEIFEL SCATTERING-THEORIES ..SCATTERING THEORY  
 65-ST-03 STIFEL, PECORA SCATTERING-THEORIES ..THEORY/ STATISTICAL MECHANICS/ DIFFERENTIAL CROSS SECTION/ CORRELATIO  
 65-YA-01 VAN-LEEUVEN, YIP SCATTERING-THEORIES ..THEORY ..KINETIC EQUATIONS/ DENSE GAS  
 66-KO-06 KOSALY, SOLT SCATTERING-THEORIES ..THEORY ..MODIFICATION OF KRIEGER-NELKIN THEORY  
 66-NI-01 NIJROER, RAHMAN SCATTERING-THEORIES ..SCATTERING FUNCTION/ CORRELATION FUNCTION/ THEORY  
 66-NO-01 NORSAL SCATTERING-THEORIES ..CORRELATION FUNCTION/ SCATTERING FUNCTION  
 66-SU-02 SUNAKAWA, FUKUJI+ SCATTERING-THEORIES ..DIFFERENTIAL CROSS SECTION/ MULTIPLE SCATTERING  
 67-GI-01 GIRRS, LINDENMEIER SCATTERING-THEORIES ..THEORY/ CROSS SECTION EVALUATION  
 67-KU-01 KURKIJARVI SCATTERING-THEORIES ..CORRELATION FUNCTION/ THEORY  
 67-PL-01 PLUMMER SCATTERING-THEORIES ..SCATTERING THEORY  
 67-NA-02 RAMASFESHEN, VISWANATHAN SCATTERING-THEORIES ..ANORMALOUS SCATTERING/ POLARIZATION VECTOR/ ONE-PHONON SCATT  
 67-SL-01 SLAGGIE SCATTERING-THEORIES ..THEORY  
 67-SL-02 SLAGGIE SCATTERING-THEORIES ..THEORY ..MULTIPLE SCATTERING CORRECTION  
 67-SU-01 SUMMERFIELD, ZWEIFEL SCATTERING-THEORIES ..SCATTERING THEORY/ GAS  
 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 EDFR SCATTERING-THEORIES ..THEORY/ PHONON EXPANSION/ MULTI-PHONON CONTRIBUTION  
 69-KU-01 KUSCFER, 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 NISHIGORI SCATTERING-THEORIES ..THEORY/ QUASICLASSICAL APPROXIMATION  
 71-RI-02 BISCHOFF, MOORE+ SCATTERING-THEORIES/ COMPUTER-CODES/ H2.O ..MULTIPLE SCATTERING/ THEORY/ SIGMA(E, E-PRIME  
 71-MA-03 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-04 COWLEY THEORY-OF-SOLIDS/ SCATTERING-THEORIES ..THEORY/ PHONON/ ALLOYS/ ORDER-DISORDER STATE  
 72-FG-01 EGFLSTAFF THEORY-OF-FLUIDS/ SCATTERING-THEORIES ..TIME DEPENDENT TRIPLET FUNCTION/ PRESSURE DERIVATIVE OF  
 72-JA-05 JANNINK, SUMMERFIELD SCATTERING-THEORIES ..THEORY/ POLYMER CHAINS IN SOLUTION/ DIFFUSIVE MOTION

1. 7 COMPILATIONS

62-EG-02 EGFLSTAFF GRAPHITE/ H2.O/ D2.O/ COMPILATIONS ..SCATTERING LAW ..24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR  
 63-PA-07 PARKER COMPILATIONS/ COMPUTER-CODES  
 66-GO-01 GOLDBERG, MUGHABGHAB+ COMPILATIONS ..SIGMA(E)  
 70-PR-03 PRICE, SHYU+ COMPILATIONS ..SOLID/ THEORY ..PAIR POTENTIAL/ METAL

1. 8 COMPUTER-CODES

61-HE-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/SAOLID/ 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/ HYDROGEN ..THEORY/ LIQUID  
 65-NA-02 NALIBOFF COMPUTER-CODES  
 65-SH-02 SHIMADA COMPUTER-CODES  
 66-RE-04 BIVINGTON, 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 SPARCK COMPUTER-CODES ..CDC-3600 PROGRAM  
 66-ZY-01 JAPANESE NUCLEAR DATA COMMITTEE + COMPUTER-CODES  
 67-BO-02 BOYSTER, MCMURRY COMPUTER-CODES ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS ..FORTRAN PROGRAM FOR THE I  
 67-CL-01 CLFNDENIN 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 NORLE, SOLBRIG-JR+ COMPUTER-CODES ..LATTICE DYNAMICS ..COHERENT SINGLE-PHONON SCATTERING OF NEUTRONS  
 67-VI-01 VISSER, VAN-DER-WALT COMPUTER-CODES  
 68-RI-01 BISCHOFF, MOORE+ COMPUTER-CODES ..THEORY/ SLAB SAMPLE/ TURLER SAMPLE  
 68-HO-07 BOYTER, SOLBRIG-JR COMPUTER-CODES ..LATTICE DYNAMICS/ DISPERSION RELATION ..STRUCTURE FACTOR FOR COHERENT  
 69-RO-07 BOYSTER, MCMURRY+ COMPUTER-CODES ..THEORY/ SOLID/ LATTICE DYNAMICS/ INTERATOMIC FORCE CONSTANTS/ STRUCTURE

69-BU-01	BUTLAND	COMPUTER-CODES ••POLYCRYSTAL
69-DJ-01	DICKEY, PASKIN	COMPUTER-CODES ••THEORY/ SOLID/ LATTICE DYNAMICS/ MOLECULAR DYNAMICS/ ANHARMONICITY
69-PR-03	PREVENDER	COMPUTER-CODES ••LATTICE DYNAMICS/ FORCE CONSTANTS FITTING ••CS,CL TYPE CRYSTAL/ PROGRAM LIST
69-PR-04	PREVENDER	COMPUTER-CODES ••LATTICE DYNAMICS/ DISPERSION CURVES/ POLARIZATION VECTOR/ STRUCTURE FACTOR
70-AR-01	ARKUSZEWSKI	COMPUTER-CODES ••THEORY/ SOLID/ SCATTERING LAW
70-RO-03	BORGONOVI	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-E-PRIME)/ SIGMA (E)/ SIGMA-TRANSPORT(E)/ SOLID

1. 9 MISCELLANEOUS

60-SJ-02	SINGWI, SJOFLANDER	MISCELLANEOUS ••THEORY/ MOESSBAUER EFFECT
66-BE-02	BERNE, ROON+	MISCELLANEOUS ••AUTOCORRELATION FUNCTION
66-CA-01	CANDELORE, CAST	MISCELLANEOUS ••SCATTERING THEORY
69-RL-02	BLAIN	MISCELLANEOUS ••STRUCTURE FACTOR/ LIQUID/ THEORY
71-TH-02	THOMAS	MISCELLANEOUS ••THEORY ••MOTION OF CENTER OF MASS IN PRESENCE OF EXTERNAL RADIATION

## 2 MONATOMIC ELEMENTS

## 2. 1 ALUMINIUM

AL

56-SO-01 SOJIREZ 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  
62-LE-01 LEHMAN, WOLFRAM+ CU/ AL/ ZR-H ••THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION  
63-SO-01 SOJIREZ AL ••LATTICE DYNAMICS/FREQUENCY SPECTRUM  
65-LA-01 LARSSON, DAHLBORG+ AL ••EXPERIMENT/ LIQUID/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION  
65-SC-01 SCHMUNK, BRUGGER+ AL/ BE ••EXPERIMENT/ SCATTERING FUNCTION/ TOF/ FREQUENCY DISTRIBUTION ••POLYCRYSTAL/ COH  
65-ST-01 STEDMAN, NILSSON AL ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION  
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-BR-04 BRUGGER METHANE/ ETHAN/ AL/ NA/ PB/ AR ••COMPILATION/ SCATTERING FUNCTION  
66-FG-01 EGFELSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ••EXPERIMENT/ LIQUID/ STRUCTURE FACTOR  
66-II-01 IJIMA AL ••CALCULATION/ PHONON SPECTRUM/ SCATTERING FUNCTION/ COHERENT  
67-RJ-01 BJORKMAN, LUNDQVIST+ AL ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ••3-AXIS SPECTROMETER/ 80DK/ 300DK  
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, ALMQVIST+ AL/ PB ••LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ••800DK FOR AL/ 500DK FOR PB  
68-GR-01 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-JH-01 JHONSON, WESTIN AL ••THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ••METAL/ ION-ELECTRON INTERACTION MODEL  
70-BR-01 BRAUNECK, GAHN+ AL ••THEORY/ STRUCTURE FACTOR  
70-CO-06 COJLTHARD 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-03 SANDSTROEM, HOEGBERG AL ••THEORY/ ANHARMONICITY/ PHONON WIDTHS AND LIFETIMES/ METAL  
70-WA-01 WALLACE AL ••THEORY/ LOCAL PSEUDOPOTENTIAL MODEL  
70-WF-05 WEYMOUTH, STEDMAN AL ••EXPERIMENT/ LATTICE DYNAMICS/ FERMI SURFACE/ KOHN ANOMALIES  
71-NO-01 NOLTING 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 GOMPFF, 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

## 2. 2 ANTIMONY

SB

71-SO-02 SOŚNOWSKI, MALISZEWSKI+ SR ••EXPERIMENT/ PHONON DISPERSION/ 5-NEIGHBOURS MODEL FITTING  
71-SO-03 SOŚNOWSKI, MALISZEWSKI+ SR ••EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION  
72-SO-02 SOŚNOWSKI, CZACHOR+ SB ••EXPERIMENT/ PHONON DISPERSION/ FIVE-NEIGHBOUR MODEL FITTING  
72-SO-03 SOŚNOWSKI, CZACHOR+ SR ••EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECTRUM

2. 3 ARGON

AR

59-DF-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-HR-02 BROCKHOUSE, BERGSMAN SN/ H2-O/ AR/ HE ••EXPERIMENT/ LIQUID  
 64-KR-01 KROO, BORGONOVII AR ••EXPERIMENT/ LIQUID/ SOLID  
 64-RA-01 RAHMAN AR ••THEORY/ MOLECULAR DYNAMICS ••LIQUID DYNAMICS/ DIGITAL COMPUTER SIMULATION  
 65-CH-02 CHEN, EDEK NEON/ ARGON/ DEUTERIUM/ CARBON TETRAFLUORIDE ••EXPERIMENT/ LIQUID/ SIGMA(THETA,E)  
 65-DA-01 DASANNACHARYA, RAO AR ••EXPERIMENT/ LIQUID/ SCATTERING LAW  
 65-GR-02 GRINDLAY, HOWARD AR ••THEORY/ SOLID/ LATTICE DYNAMICS  
 65-KR-02 KROO, BORGONOVII AR ••EXPERIMENT/ LIQUID/ DISPERSION RELATION  
 65-RA-02 RANDOLPH AR ••EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION ••LIQUID AND SOLID  
 65-SF-01 SFARIS NEUTRON-SCATTERING-IN-FLUIDS/ AR ••LIQUID/ CORRELATION FUNCTION  
 65-SI-04 SINGWI ARGON ••THEORY/ LIQUID/ SCATTERING LAW ••COHERENT SCATTERING/ ONE-PHONON APPROXIMATION  
 66-DE-02 DESAI ARGON ••THEORY/ LIQUID/ INTERMEDIATE SCATTERING FUNCTION  
 66-DE-04 DESAI, NELKIN AR ••THEORY/ LIQUID ••COLLECTIVE MOTION IN LIQUID  
 66-PA-03 PASKIN REVIEW-ARTICLES/ AR/ NA/ CF/ RB ••LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTOCORRELATION 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-RO-01 ROON, RICE AR/ THEORY-OF-FLUIDS ••THEORY/ LIQUID ••MOMENTUM AUTO-CORRELATION FUNCTION  
 67-LF-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 AGRAWAL, DESAI NEUTRON-SCATTERING-IN-FLUIDS/ AR/ NA/ PB/ METHANE ••THEORY ••MODEL CALCULATION  
 68-AN-01 ANDRIESEE AR ••THEORY/ LIQUID/ SCATTERING THEORY ••84DK  
 68-AN-02 ANDRUS, MUETHER AR ••LIQUID/ EXPERIMENT  
 68-AN-03 ANDRUS, MUETHER AR ••SCATTERING LAW/ EXPERIMENT/ LIQUID ••BE FILTER METHOD/ 87DK/ 97UK/ 111DK/ 124DK/ 22A  
 68-AN-04 ANDRUS, MUETHER AR ••EXPERIMENT/ TOF/ QUASI-ELASTIC  
 68-AN-05 ANDRUS, MUETHER AR ••LIQUID/ EXPERIMENT ••QUASI-ELASTIC PEAK/ TEMPERATURE DEPENDENCE/ 87.97.111.124 DEG.K  
 68-AR-01 ARDENIE, NARDELL AR/ NA ••THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION  
 68-DF-04 DESAI, YIP AR ••LIQUID/ SCATTERING FUNCTION ••94.4DK  
 68-GL-03 GLASS, RICE NEUTRON-SCATTERING-IN-FLUIDS/ AR ••THEORY/ LIQUID/ CORRELATION FUNCTION ••COHERENT-SCATTERING  
 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-RI-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-PA-01 PAGE, FGLSTAFF 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 ANDRIESEE AR ••INTERMEDIATE SCATTERING FUNCTION/ LIQUID/ FREQUENCY DISTRIBUTION ••4A NEUTRONS  
 70-AN-02 ANDRIESEE ARGON ••THEORY ••MODEL WHICH IS USEFUL FOR THE INTERPRETATION OF THE GAS DATA  
 70-RA-02 BARKER, KLEIN AR ••THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ ANHARMONICITY  
 70-RA-03 RATCHELDER, COLLINS AR ••LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION CURVE  
 70-RO-01 BORETTIC, BARKER AR ••THEORY/ SOLID/ LATTICE DYNAMICS/ ANHARMONICITY ••THREE-BODY FORCE/ SPECIFIC HEAT/ DEB  
 70-BR-03 BRUN, 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-CONSISTENT APPROXIMATION

70-KI-03 KITAGAWA AR/ KR/ POLYETHYLENE ..REVIFW/ LATTICE DYNAMICS  
70-LF-01 LEFCH, REISSLAND NF/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS ..ANHARMONICITY ..THERMODYNAMICAL PROPERTIES  
70-LF-02 LEFCH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS  
70-PA-05 PATHAK, SINGWI THEORY-OF-FLUIDS/ ARGON ..THEORY/ LIQUID/ SCATTERING LAW/ GAUSSIAN APPROXIMATION  
70-ZA-01 ZANDVELD, ANDRIESSE+ AR ..EXPERIMENT/ LIQUID/ VELOCITY AUTOCORRELATION FUNCTION ..MEAN SQUARE ATOMIC DISPL  
71-RA-06 BARKER, FISHER+ THEORY-OF-FLUIDS/ AR ..COMPUTER-SIMULATION/ MONTE-CARLO ..THREE-BODY-INTERACTION  
71-RA-08 BATCHELDER, HAYWOOD+ AR ..EXPERIMENT/ SOLID/ PHONON DISPERSION/ 4, 40, 77K  
71-CH-01 CHATURVEDI, BAIJAL AR ..THEORY/ SPACE-TIME CORRELATION FUNCTION/ NON-GAUSSIAN EFFECT  
71-DF-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 EGGLESTAFF, PAGE+ RB/ AR/ C.C.L.4 ..EXPERIMENT/ TRIPLET CORRELATION FUNCTION/ THEORY  
71-HU-01 HUELLER THEORY-OF-SOLIDS/ ARGON/ KRYPTON/ XENON ..CAUCHY-RELATION  
71-JA-01 JAIN, BHANDARI AR/ NA ..THEORY/ MEMORY FUNCTION/ LIQUID DYNAMICS  
71-KL-01 KLFIN, 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-HOVF-CORRELATION-FUNCTION  
71-WA-05 WASEDA, SUZUKI CS/ AR ..THEORY/ LIQUID ..PAIR POTENTIAL/ BORN-GREEN EQUATION  
72-AN-01 ANDRIESSE, LEGRAND AR ..EXPERIMENT/ NEUTRON DIFFRACTION  
72-RA-05 BARKER, GASKELL ARGON/ THEORY-OF-FLUIDS ..CORRELATION FUNCTION  
72-DU-01 DUROIS AR ..THEORY/ DISPERSION/ SCATTERING FUNCTION/ LIQUID DYNAMICS  
72-HO-01 HORNER HE/ NE/ AR ..THEORY/ PHONON DISPERSION/ SELFCONSISTENT TRTATMENT  
72-LA-01 LADD AR ..THEORY/ DFNSITY 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 ROWF, 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  
73-RA-01 BARKER, GASKELL AR ..THEORY/ DYNAMIC STRUCTURE FACTOR

2. 4 BERYLLIUM BE

51-EG-01 EGELSTAFF H/ BE/ V/ SE/ MO/ FE ..SOLID/ EXPERIMENT/ TRANSMISSION  
58-FG-01 EGFLSTAFF BE/ MG/ SCATTERING-THEORIES ..THEORY/ EXPERIMENT/ SOLID/ SIGMA(E, E-PRIME, THETA)/ SIGMA(E) ..O  
62-RR-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-FG-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, CAERTNER+ 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-RF-01 REYSTER, KOPPEL D2.O/ H2.O/ POLYETHYLENE/ BE ..THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION  
65-DF-02 DE-WAMES, WOLFRAM+ BE/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION  
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, KOPPEL 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) 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-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/ BF/ BE.O ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR  
 69-RO-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=PRD, CUTLER BE ..DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ PHONON/ META  
 69-ME-02 METZROWER BE ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..NONCENTRAL-FORCE/ FIVE FORC  
 69-SA-05 SAHNI, VENKATARAMAN BE ..DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS ..PSEUDOPOTENTIAL/ OPW METHO  
 70-RO-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, BAJPAL BE/ MG/ TL ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..HEXAGONAL METAL  
 71-KU-02 KUSHWAHA BE/ TL ..NON-CENTRAL FORCE MODEL  
 71-SR-01 SRINIVASAN, RAO MG/ ZN/ BF ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ ANHARMONICS  
 71-TH-01 THAPFER, RAO+ BE ..EXPERIMENT/ PHONON DISPERSION/ MODIFIED AXIAL SYMMETRIC MODEL FITTING

2. 5 BISMUTH BI

64-YA-02 YARNELL, WARREN+ BI ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION  
 66-FG-01 EGFSTAFF, DUFFILL+ PR/ 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/ TOF/ SCATTERING RELATION ..CONST.=0 METHOD/ 75DK  
 68-MA-10 MATEFESCU, TEUTSCH+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ TOF/ SCATTERING RELATION ..77,4DK FOR N2/ 560DK FOR BI  
 68-NO-01 NORTH, ENDERBY+ BI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CONST.=0  
 68-SO-01 SOCNOWSKI, BEDNARSKI+ BI ..EXPERIMENT/ LIQUID/ SOLID/ DISPERSION RELATION ..280DC FOR LIQUID/ 262DC FOR SOL  
 68-TU-01 TUNKALO, KUOPPAMAKI+ BI ..EXPERIMENT/ ELASTIC CONSTANTS/ 300-344DK  
 72-BU-01 BURENKOV, VALIEV+ BI ..EXPERIMENT/ ELASTIC CONSTANTS/ 300-344DK  
 72-KA-03 KAMMER, CARDINAL+ BI/ SN ..EXPERIMENT/ ELASTIC CONSTANT

2. 6 BROMINE BR

62-CA-01 CAGLIOTI, RICCI BR ..LIQUID/ EXPERIMENT  
 63-CA-01 CAGLIOTI, ASCARELLI BR ..LIQUID/ EXPERIMENT  
 63-CO-06 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

2. 7 BROMINE BR2

- 67-CA-02 CARPENTER C2.F6/ BR2 ..SCATTERING LAW/ CORRELATION FUNCTION/ THEORY/ GAS/ MOLECULAR DYNAMICS ..TORSIONAL
2. 8 CADMIUM CD
- 71-TO-01 TOUSSAINT CD ..EXPERIMENT/ PHONON DISPERSION/ X-RAY SCATTERING  
 72-ME-04 MENON, RAO CD ..THEORY/ SOF.TOE/ THERMAL EXPANSION/ GRUNEISEN CONSTANT
2. 9 CALCIUM CA
- 72-GO-02 GOMPF, LAU+ PB/ AL/ CA ..EXPERIMENT/ PHONON SPECTRA/ COHERENT SCATTERING
2. 10 CARRON C
- 65-YO-01 YOIJNG, KOPPEL BE/ C/ H2.O/ D2.O/ C.H2/ H2/ D2 ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION  
 66-YO-01 YOIJNG BE/ C/ BE.O ..SCATTERING FUNCTION/ THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DIS  
 68-II-01 IIZUMI, AYAO C ..SIGMA (E)
2. 11 CERIUM CE
- 66-PA-03 PASKIN REVIEW-ARTICLES/ AR/ NA/ CE/ RB ..LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTOCORRELATION FU
2. 12 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-KU-04 KUSHWAHA, SINGH THEORY-OF-SOLIDS/ CS ..THEORY/ PHONON DISPERSION  
 71-WA-03 WASEDA, SUZUKI CS/ AR ..THEORY/ LIQUID ..PAIR POTENTIAL/ BORN-GREEN EQUATION  
 72-SI-01 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE  
 72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ PHONON DISPERSION
2. 13 CHROMIUM CR
- 65-MO-01 MOELLER, MACKINTOSH CR ..EXPERIMENT/ SOLID/ DISPERSION RELATION ..TRIPLE AXIS SPECTROMETER  
 70-RI-01 RICE, HALPERIN CR ..THORY/ LATTICE VIBRATION ..FERMI SURFACE/ ELECTRON SUSCEPTIBILITY/ EFFECT OF THE KOHN  
 71-SH-02 SHAW, MUHLESTEIN CR ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ KOHN EFFECT/ FREQUENCY SPECTRA  
 71-SH-03 SHAW, MUHLESTEIN CR ..EXPRIMENT/ PHONON DISPERSION/ FREQUENCY SPFCTRUM/ KOHN ANOMARY  
 72-MU-01 MUHLESTEIN, GUERMENT+ CR ..EXPERIMENT/ PHONON DISPERSION/ 300DK TO 503DK
2. 14 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

2. 15 COPPER

CU

- 58-TO-01 TOYA CU ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION  
 61-CR-01 CRIRIER, 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-SI-06 SINHA, SOUIRES CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ TOF  
 65-SI-01 V/ SI/ CU/ NEUTRON-SCATTERING-IN-SOLIDS ..HARMONIC APPROXIMATION/ DEBYE APPROXIMATION  
 66-SI-02 SINHA CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ 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 SVFNSSON, BROCKHOUSE+ CU ..EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ FORCE ANALYSIS  
 67-YU-01 YUFEN, VARHNI CU ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION/ FREQUENCY SPECTRUM ..FCC CUBIC METAL  
 68-NI-02 NIISSON CU ..EXPERIMENT/ LATTICE VIBRATION/ DISPERSION RELATION ..KOHN EFFECT  
 69-RF-01 BEHARI, TRIPATHI CU ..DISPERSION RELATION/ THEORY ..MODIFIED ANGULAR FORCE MODEL/ ELECTRON-ION INTERACTION  
 69-RF-02 BEHARI, TRIPATHI CU ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED ANGULAR FORCE MODEL/ ELECT  
 70-KR-01 KRFRS, HOELZL LI/ NA/ K/ RR/ CU/ AL/ PR/ FF/ NI/ PT/ COMPUTER-CODES ..PSEUDO-ION APPROXIMATION/ FITTING TO  
 70-RF-03 BEHARI, TRIPATHI CU/ AG/ AU ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..NON-CENTRAL FORCE MODEL/ EL  
 70-RU-01 BUFRER CU ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ CONST-0 METHOD ..PSEUDO-POTENTIAL ANALYSIS  
 71-RA-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 SPECT  
 71-MO-01 MOSCINSKI, NAWALANY THEORY-OF-FLUIDS/ CU  
 71-SH-01 SHARMA, SINGH CU/ AG/ AU ..THEORY/ PHONON DISPERSION/ METAL  
 71-SH-06 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

2. 16 DEUTERIUM

D

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

2. 17 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. 18 DIAMOND

DIAMOND

- 63-MI-01 MICHAELL, HARDY+ DIAMOND ..FREQUENCY SPECTRUM/ LATTICE DYNAMICS  
 64-YA-01 YARNFLL, WARREN+ DIAMOND ..EXPERIMENT/ DISPERSION RELATION  
 65-WA-02 WARREN, WENZEL+ DIAMOND ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS

67-RL-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-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 7N•S/ DIAMOND/ SR•TI•O3 ••GROUP THEORY/ LATTICE VIBRATION ••SYMMETRY PROPERTIES  
 72-TU-01 TURINO, PISERI+ DIAMOND/ SI/ GE/ SN ••THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL

2. 19 GALLIUM GA

67-RA-05 RAO, DASANNACHARYA+ GA ••EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION  
 69-WA-01 WAFER GA ••THEORY/ LATTICE DYNAMICS/ ••GROUP-THEORETICAL ANALYSIS  
 69-WA-02 WAFER 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-WA-01 WAFER GA/ THEORY-OF-SOLIDS ••THEORY/ SOLID/ LATTICE DYNAMICS ••METAL/ ORTHORHOMBIC

2. 20 GERMANIUM GE

57-RR-01 BROCKHOUSE, IYENGAR GE ••EXPERIMENT/ PHONON DISPERSION  
 58-RR-04 BROCKHOUSE, IYENGAR GE ••EXPERIMENT/ DISPERSION RELATION  
 59-RR-02 BROCKHOUSE GE ••EXPERIMENT/ DISPERSION RELATION  
 59-RR-03 BROCKHOUSE GE/ SI ••EXPERIMENT/ DISPERSION RELATION  
 59-GH-01 GHOSE, PALEVSKY+ GE ••EXPERIMENT/ DISPERSION RELATION  
 63-RR-01 BROCKHOUSE, BECK+ GE ••EXPERIMENT/ LATTICE DYNAMICS  
 63-RR-04 BROCKHOUSE, DASANNACHARYA GE ••EXPERIMENT/ DISPERSION RELATION ••TEMPERATURE EFFECTS  
 65-DC-04 DOLLING GE/ SI ••EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION  
 65-PO-02 POPF GE ••LATTICE DYNAMICS/ SOLID/ THEORY  
 71-NI-04 NILSSON, NELIN GE ••EXPERIMENT/ DISPERSION CURVE/ LATTICE DYNAMICS/ RODK/ LINE WIDTH  
 72-JF-01 JFX GE/ SI ••THEORY/ PHONON/ ANHARMONIC INTERACTION  
 72-NF-01 NFLIN, NILSSON GE ••EXPERIMENT/ CALCULATION/ PHONON DENSITY  
 72-PA-03 PANDY, DAYAL GE ••THEORY/ LATTICE/ DYNAMICS/ DISPERSION RELATION  
 72-TU-01 TURINO, PISERI+ DIAMOND/ SI/ GE/ SN ••THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL

2. 21 GOLD AU

67-GU-01 GUPTA, SHARMA CU/ AU ••LATTICE DYNAMICS/ THEORY  
 70-RF-03 RFHARI, 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

2. 22 GRAPHITE 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, NETTFF+ GRAPHITE/ H2•O/ D2•O ••EXPERIMENT/ LIQUID/ SOLID  
 55-KO-01 KOMATSU GRAPHITE ••THEORY/ LATTICE DYNAMICS ••SPECIFIC HEAT  
 56-RA-01 RALDOCK GRAPHITE ••FREQUENCY SPECTRUM/ THEORY/ SOLID/ LATTICE DYNAMICS  
 56-YO-01 YOSHIMORI, KITANO GRAPHITE ••THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION

58-MC-01 H<sub>2</sub>O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE ..EXPERIMENT/ THEORY/ LIQUID/ SOLID  
 61-EG-02 GRAPHITE ..EXPERIMENT/ SCATTERING LAW/ FREQUENCY SPECTRUM ..24DC/ 336DC/ 425DC/ 610DC/  
 PARKS ..LATTICE DYNAMICS  
 61-PA-03 GRAPHITE ..THEORY ..SCATTERING KERNELS  
 61-PA-04 GRAPHITE/ H<sub>2</sub>O/ D<sub>2</sub>O/ ZR-H/ LI<sub>2</sub>H/ NA<sub>2</sub>H/ NA<sub>2</sub>H<sub>4</sub>CL ..EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE  
 QUENCY SPECTRUM ..COMPIATION/ COMPILATIONS ..SCATTERING FUNCTION  
 62-RR-04 BRUGGER BE/ RE-O/ GRAPHITE/ H<sub>2</sub>O/ D<sub>2</sub>O/ METHANE/ PROPANE/ TERPHENYL/ COMPILATIONS ..SCATTERING FUNCTION  
 62-DO-01 DOLLING, BROCKHOUSE GRAPHITE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION  
 62-EG-02 EGFSTAFF GRAPHITE/ H<sub>2</sub>O/ D<sub>2</sub>O/ COMPILATIONS ..SCATTERING LAW ..24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR  
 62-EG-04 H<sub>2</sub>O/ D<sub>2</sub>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 H<sub>2</sub>O/ GRAPHITE ..THEORY/ COMPILATION  
 63-FG-04 EGFSTAFF, HARRIS GRAPHITE ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ ..HIGH FREQUENCY MODE/ 9500C  
 63-HA-04 HAYWOOD, THORSON GRAPHITE ..EXPERIMENT/ FREQUENCY DISTRIBUTION  
 64-HA-02 HAYWOOD, SINCLAIR GRAPHITE/ BF/ BF<sub>2</sub>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  
 TRON SPECTRUM/ COMPILATION/ LIQUID/ GAS  
 64-WI-02 WILSON POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI  
 NG  
 65-WH-01 WHITTEMORE GRAPHITE ..EXPERIMENT  
 65-WH-02 WHITTEMORE GRAPHITE ..THEORY/ FREQUENCY SPECTRUM/ BORN-VON KARMAN MODEL  
 65-YO-02 YOUNG, KOPPEL GRAPHITE ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION/ NEUTRON SPECTRUM ..SCATTERING  
 65-YO-03 YOUNG, WIKNER+ H<sub>2</sub>O/ D<sub>2</sub>O/ ZR-H/ GRAPHITE/ BE<sub>2</sub>O ..NEUTRON SPECTRUM/ COMPILATION/ LIQUID/ GAS  
 66-RE-06 BEYSTER, NEILL+ GRAPHITE ..EXPERIMENT/ LATTICE DYNAMICS  
 66-ME-01 MEFFRS D<sub>2</sub>O/ GRAPHITE ..EXPERIMENT/ SCATTERING FUNCTION ..24DC  
 66-WH-02 WHITTEMORE H<sub>2</sub>O/ D<sub>2</sub>O/ GRAPHITE ..NEUTRON SPECTRUM/ SIGMA(E-E-PRIME)  
 66-WO-01 WORDEN, PURCELL+ REVIEW-ARTICLES/ H<sub>2</sub>O/ ZR-H/ GRAPHITE/ D<sub>2</sub>O/ BE/ BE<sub>2</sub>O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATT  
 67-GL-01 GLAESER GRAPHITE ..SCATTERING FUNCTION/ EXPERIMENT ..HIGH TEMPERATURE  
 67-PA-01 PAGE D<sub>2</sub>O/ H/ GRAPHITE ..CROSS SECTION EVALUATION/ LIQUID/ SOLID/ EXPERIMENT/ SCATTERING FUNCTION  
 67-WH-01 WHITTEMORE GRAPHITE ..THEORY/ LATTICE DYNAMICS  
 68-RO-06 BOWMAN, KRUMHANSL GRAPHITE ..SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT ..TOF/ 533DK  
 68-CA-04 CARVALHO GRAPHITE ..SCATTERING FUNCTION/ EXPERIMENT ..15DC/ 490DC/ 1000DC  
 68-FR-01 ERFMEEV, MOSTOVOI+ H<sub>2</sub>O/ ZR-H/ GRAPHITE/ D<sub>2</sub>O/ BE/ BE<sub>2</sub>O ..COMPILATION/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI  
 68-GL-01 GLAESER H<sub>2</sub>O/ D<sub>2</sub>O/ ZR-H/ GRAPHITE/ RE/ BE<sub>2</sub>O ..SCATTERING FUNCTION/ DIFFUSION PARAMETER/ COMPILATION  
 68-GL-02 GLAESER H<sub>2</sub>O/ D<sub>2</sub>O/ GRAPHITE/ BF/ BF<sub>2</sub>O ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR  
 68-PA-01 PAGE, HAYWOOD GRAPHITE ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION ..1800DK  
 68-PA-02 PAGE GRAPHITE ..CROSS SECTION EVALUATION/ EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION  
 68-WH-01 WHITTEMORE GRAPHITE ..EXPERIMENT/ DISPERSION CURVE ..ALONG C-AXIS  
 69-CO-03 COLLINS, HAYWOOD GRAPHITE ..THEORY/ LATTICE DYNAMICS/ SCATTERING FUNCTION ..COHERENT SCATTERING/ COMPUTER CALCUL  
 69-TA-02 TAKAHASHI GRAPHITE ..THEORY/ SPECTRAL DENSITY/ SIGMA(E)  
 70-CO-04 CONN GRAPHITE ..EXPERIMENT/ TEMPERATURE EFFECT/ PHONON FREQUENCY  
 71-RO-07 ROY BUTLAND, MADDISON GRAPHITE ..REVIEW/ EVALUATION/ SPECIFIC HEAT  
 72-RU-02 BUTLAND, MADDISON GRAPHITE ..SCATTERING MATRICES/ PHONON SPECTRUM/ SPECIFIC HEAT/ ASSUMING ISOTROPIC STRUCTURE  
 72-RU-05 BUTLAND GRAPHITE ..SCATTERING MATRICES/ PHONON SPECTRUM/ SPECIFIC HEAT/ ASSUMING ISOTROPIC STRUCTURE  
 72-GA-01 GAUSTER GRAPHITE ..THEORY/ SOLID ..ELASTIC CONSTANTS

2. 23 HAFNIUM

HF

70-SH-05 SHARAN, BAJPAL ZR/ HF ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE

2. 24 HELIUM

HE

57-CO-01 COHEN, FEYNNMANN HE ..THEORY/ SCATTERING BY ROTON  
 57-FG-01 EGELSTAFF, LONDON HE ..LIQUID/ EXPERIMENT / SIGMA(E) / SIGMA(E), THETA) ..LIQUID HELIUM  
 57-PA-01 PALEVSKY, OTNES+ HE ..EXPERIMENT/ ROTON  
 58-HF-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-HF-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-ST-01 STEPHN, GOLDBERG+ H/ D/ H2.O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPILATIONS ..S  
 65-WO-03 WOODS HE ..EXPERIMENT/ LIQUID/ DISPERSION RELATION  
 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-WO-02 MORLEY HE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..HCP PHASE/ CDK/ DE  
 67-PL-02 PLUMMER, SUMMERFIELD+ HE ..THEORY/ DISTRIBUTION FUNCTION/ GAS ..DIFFERENTIAL SCATTERING CROSS SECTION/ 5-6  
 68-BR-04 BRUN, SINHA+ HE ..EXPERIMENT/ DISPERSION RELATION ..4.2DK  
 68-CO-08 COWLEY, WOODS HE ..LIQUID/ EXPERIMENT/ SCATTERING FUNCTION ..1.1DK/ 4.2DK  
 68-MI-04 ECKSTEIN, VARGA HE ..THEORY/ LIQUID/ STATISTICAL MECHANICS  
 68-SH-01 SHAH HE ..LIQUID/ EXPERIMENT ..HF-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-02 FERNANDEZ, GERSCH HE ..GROUND STATE/ THEORY ..ENERGY WIDTH OSCILLATION  
 69-KL-01 KLFMANS, LIPSCHULTZ HE ..SOLID/ THEORY  
 69-MO-02 MORLEY, KLIEWER HE ..DISPERSION RELATION/ THEORY/ FREQUENCY DISTRIBUTION/ SOLID ..SOUND VELOCITY/ SELF-COM  
 70-GL-02 GLYDF, COWLEY HE ..ANHAMONCITY  
 70-GO-02 GOLDMAN, HORTON+ NE/ HE ..SELF-CONSISTENT APPROXIMATION/ DISPERSION CURVE/ LIFE TIME/ THEORY  
 70-KE-05 KERR, PATHAK+ HELIUM ..THEORY/ LIQUID/ SCATTERING LAW/ GAUSSIAN APPROXIMATION ..LARGE MOMENTUM TRANSFER/ U  
 70-LA-03 LAI, SIM+ HE ..DISPERSION CURVE/ THEORY  
 70-WF-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, RIEM HE ..THEORY/ PHONON DAMPING/ SOLID HE  
 71-RF-01 REFSE, SINHA+ HE ..EXPERIMENT/ PHONON DISPERSION/ 4.2K/ PHONON DENSITY  
 71-TR-02 TRAYLOR, STASSIS+ HE ..EXPERIMENT/ PHONON DISPERSION/ FCC HE  
 72-DI-01 DIFTRICH, GRAF+ HE ..EXPERIMENT/ LIQUID/ ROTON DISPERSION/ LINE WIDTH  
 72-GI-01 GILBERT HE ..FOURIER TRANSFORM OF SCATTERED INTENSITY/ PROBABILITY DENSITY  
 72-GL-02 GLYDE, KHANNA HE ..THEORY/ PHONON DISPERSION/ T-MATRIX/ SCH APPROXIMATION  
 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-KI-02 KITCHENS, SHIRANE+ HE ..EXPERIMENT/ SOLID HE/ SINGLE PARTICLE EXITATIONS  
 72-KO-01 KOHLER, WERTHAMER HE ..THEORY/ DISPERSION RELATION  
 72-MO-01 MOOK, SCHERM+ HE ..EXPERIMENT/ HIGH ENERGY NEUTRON SCATTERING

- 72-GS-01 OSGOOD, MINKIEWICZ+ HE \*\*EXPERIMENT/ PHONON DISPERSION  
 72-RA-05 RAO, MFNON HELIUM \*\*DISPERSION-RELATION  
 72-SF-02 SFARS HELIUM \*\*ANHARMONICITY/ FREQUENCY-SPECTRUM  
 72-SO-01 SOLANA, CELLI+ HE \*\*THEORY/ TWO-ROTON RESONANCE/ ROTON DISPERSION/ LINEWIDTH  
 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-WO-01 WOODS, SVENSSON+ HE \*\*EXPERIMENT/ LIQUID DYNAMICS/ LOW-MOMENTUM-TRANSFER  
 72-YA-01 YAMADA, ISHIKAWA HE \*\*THEORY/ PHONON DISPERSION/ LIQUID HELIUM
2. 25 HOLMIUM  
 HO  
 69-LF-02 LEAKE, MINKIEWICZ+ HO \*\*DISPERSION RELATION/ TRIPLE AXIS SPECTROMETER/ LATTICE DYNAMICS \*\*2950K/ PARAMAGNE  
 70-LA-02 LAHTENKORVA MG/ Y/ HO \*\*DISPERSION RELATION/ HARMONIC APPROXIMATION/ THEORY/ SOLID/ LATTICE DYNAMICS \*\*EL  
 71-NI-01 NICKLOW, WAKABAYASHI+ HO \*\*EXPERIMENT/ PHONON DISPERSION CURVES/ FREQUENCY DISTRIBUTION/ SPECIFIC HEAT/ DE
2. 26 HYDROGEN  
 H  
 51-FG-01 EGELSTAFF H/ RE/ V/ SF/ MO/ FE \*\*SOLID/ EXPERIMENT/ TRANSMISSION  
 51-MF-01 MESSIAH H/ C.H4 \*\*THEORY/ SCATTERING THEORY \*\*ROOM TEMP.  
 58-BR-01 BRIMBERG H \*\*THEORY/ MOLECULAR DYNAMICS/ SIGMA(E)  
 63-MC-01 MCFRYNOLDS, WHITTEMORE H \*\*EXPERIMENT/ LIQUID  
 63-WH-01 WHITTEMORE, DANNER H \*\*EXPERIMENT/ LIQUID/ SIGMA (E-E-PRIME, THETA)  
 64-FG-02 EGELSTAFF, HAYWOOD+ H/ D/ H2.O/ O2.O/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPILATIONS \*\*S  
 64-ST-01 STEHN, GOLDRERG+ H \*\*EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS \*\*NEUTRON SPECTRA/ TOTAL CROSS SECTION  
 64-WH-01 WHITTEMORE C.H4/ H \*\*EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS \*\*SIGMA TOTAL  
 65-HO-04 HORSFLY H \*\*CROSS SECTION EVALUATION \*\*THEORY/ LIQUID  
 65-NA-02 NALIROFF COMPUTER-CODES/ HYDROGEN \*\*THEORY/ LIQUID  
 65-SF-02 SFARS 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 \*\*DOUBLY-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-02 SCHOTT H \*\*EXPERIMENT  
 70-SC-04 SCOTT, RIETSCHEL H \*\*EXPERIMENT/ PHONON STATE DENSITY/ QUADRUPOLE INTERACTION CONSTANT  
 71-HO-02 HOJK, SHAMBROOM+ H \*\*EXPERIMENT/ PARAHYDROGEN/ SCATTERING LENGTH  
 72-LF-04 LEFEVRE, CHEN+ H \*\*EXPERIMENT/ QUASI-ELASTIC SCATTERING/ PRESSURE DEPENDENCE/ KINETIC THEORY ANALYSIS  
 72-NI-01 NIELSEN, CARNEIRO H \*\*EXPERIMENT/ PHONON DISPERSION/ SOLID PARAHYDROGEN  
 73-SF-01 SFARS NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS \*\*THEORY/ FLUID/ SCATTERING FUNCTION
2. 27 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 HAMMERESH, SCHWINGER H2 \*\*THEORY/ GAS/ SCATTERING CROSS SECTION  
 61-SA-01 SARMA H2 \*\*THEORY/ MOLECULAR DYNAMICS/ LIQUID  
 63-WF-01 WFRR C.H4/ N.H3/ H2 \*\*SIGMA(E-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

66-KO-02 KOBPEL, YOUNG H2 ..THEORY/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION ..20.5DK  
67-FG-01 EGFELSTAFF, HAYWOOD+ H2 ..MOLECULAR DYNAMICS/ SOLID/ LIQUID/ EXPERIMENT  
67-EL-04 ELLIOTT, HARTMAN H2 ..MOLECULAR DYNAMICS/ THEORY/ SIGMATHETA.E)  
70-KL-01 KLFIN, KOEHLER H2 ..DISPERSION RELATION  
70-KL-03 KLUMP, SCHNEPP+ H2/ D2 ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID  
70-MI-02 MIFENTA, OLIVI H2 ..THEORY/ DIFFERENTIAL CROSS SECTION  
71-RI-01 RIFM, MERTENS H2 ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ SOLID HYDROGEN  
71-ST-03 STEIN, STOCKMEYER+ H2 ..EXPERIMENT/ SOLID HYDROGEN/ T-O-F SPECTRA/ PHONON DENSITY  
72-JA-01 JACORI, SCHNEPP C.02/ H2/ N2 ..THEORY/ LATTICE DYNAMICS ..QUADRAPOL POTENTIAL  
72-ST-01 STEIN H2 ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ SCATTERING LAW/ FREQUENCY DISTRIBUTION

2. 28 INDIUM IN  
72-KU-02 KUMAR, SHARAN IN ..THEORY/ PHONON DISPERSION/ DEBYE TEMPERATURE

2. 29 IRON FE  
61-IV-01 IYNGAR, SATYA-MURTHY+ FE ..EXPERIMENT/ DISPERSION RELATION  
62-LO-01 LOW FE ..EXPERIMENT/ SOLID/ DISPERSION RELATION  
67-RR-01 BERGMA, VAN-DIJK+ FE ..DISPERSION RELATION/ EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ CRYSTAL SPECTROMETER/ BU  
67-BR-01 BROCKHOUSE, ABOU-HELAL+ FE ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION  
67-MI-03 MINKIEWICZ, SHIRANE+ FE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..ROOM  
67-VA-01 VAN-DINGEMEN, HAUTFLER FE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..ROOM TEMPERATURE/ TOF MET  
68-VA-02 VAN-DIJK, BERGMA FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION  
70-VA-03 VAN-DIJK FE/ FE-AL ..EXPERIMENT/ LATTICE DYNAMICS/ PHONON DISPERSION  
72-RF-01 BFHARI, TRIPATHI FE/ MO/ W ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA

2. 30 KRYPTON KR  
61-CL-01 CLAYTON, HEATON KR ..EXPERIMENT/ STRUCTURE FACTOR/ LIQUID/ RADIAL DISTRIBUTION ..117.133,153.183 AND 210DK  
67-RR-03 BROWN, HORTON KR ..LATTICE DYNAMICS/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..73DK  
67-DA-01 DANIELS, SHIRANE+ KR ..EXPERIMENT/ PHONON DISPERSION/ 79DK  
67-HO-01 HOFBERG, BOHLIN KR ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION  
70-GL-01 GLYDE NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY  
70-KI-03 KITAGAWA AR/ KR/ POLYETHYLENE ..REVIFW/ LATTICE DYNAMICS  
70-LF-01 LEFCH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS/ ANHARMONICITY ..THERMODYNAMICAL PROPERTIES  
70-LF-02 LEFCH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS  
71-RA-07 BARKER, BORETIC+ KR ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT  
71-HU-01 HUFLLER THEORY-OF-SOLIDS/ ARGON/ KRYPTON/ XFONON ..CAUCHY-RELATION  
72-RO-01 BORETIC, BARKER+ KR ..THEORY/ DEBYE PARAMETER/ THERMAL EXPANSION/ BULK MODULVS

2. 31 LEAD PB  
54-FG-01 EGFELSTAFF PB ..EXPERIMENT/ LIQUID  
55-BR-01 BROCKHOUSE PB ..EXPERIMENT/ LIQUID  
59-BR-01 BROCKHOUSE, POPE PB ..EXPERIMENT/ LIQUID  
59-PF-01 PFAH, WHITEMORE+ 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, AHASE+ 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/ PR/ 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-RR-01 BROCKHOUSE, AHASE+ PB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..CRYSTAL SPECTROMETER/ 100DK  
 62-CO-04 COTTIER PB ..EXPERIMENT/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION  
 62-FG-03 EGELSTAFF, SCHOFFELD SCATTERING-THEORIS/ H2.O/ PB ..EXPERIMENT/ THEORY/ LIQUID/ DIFFUSION PARAMETER ..ROO  
 62-FG-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-FG-03 EGELSTAFF PB/ SN ..EXPERIMENT/ SCATTERING-IN-FLUIDS/ H2.O/ PB ..THEORY/ LIQUID/ FREQUENCY DISTRIBUTION/ SCATT  
 63-SI-03 SINGWI, SJOELANDER+ NEUTRON-SCATTERING-IN-FLUIDS/ H2.O/ PB ..THEORY/ LIQUID/ DISPERSION RELATION  
 65-CO-03 COCKING, EGELSTAFF PB/ SN ..EXPERIMENT/ LIQUID/ DISPERSION RELATION  
 65-DO-06 DORNER, PLESSER+ PB ..EXPERIMENT  
 65-PA-01 PALEVSKY PB/ H2.O/ SN ..EXPERIMENT/ LIQUID  
 65-TO-01 TOYA PB ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION  
 66-RR-04 BRUGGER METHANE/ ETHANF/ AL/ NA/ PB/ AR ..COMPIATION/ SCATTERING FUNCTION  
 66-FG-01 EGELSTAFF, DUFFILL+ PR/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR  
 66-RA-03 RANDOLPH LEAD ..EXPERIMENT/ LIQUID/ SCATTERING FUNCTION ..352DC  
 66-RA-04 RANDOLPH, SINGWI AL/ PB/ BI/ SN ..SOLID/ LIQUID/ CRYSTAL SPECTROMETER/ EXPERIMENT ..COLLECTIVE MOTION  
 67-CO-01 COCKING AL/ PB/ BI/ 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+ PR ..EXPERIMENT/ POLYCRYSTAL/ LIQUID/ DISPERSION CURVES  
 67-NF-03 NFKIN, 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 STEFMAN, ALMØVIST+ AL/ PB ..LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION ..800DK FOR AL/ 500DK FOR PB  
 67-ST-04 STEFMAN, 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-GR-01 GRIMVALL AL/ NB/ PB ..FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS ..DEBYE TEMP.  
 68-NO-01 NORTH, ENDERBY+ ZN/ TL/ PR/ 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+ PR/ PR-TL ..EXPERIMENT/ SPECTRAL DENSITY ..TUNNELING EXPERIMENT  
 70-CO-06 COULTHARD SODIUM/ POTASSIUM/ ALUMINIUM/ LEAD ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION ..PRESSURE  
 70-RO-03 ROY, BROCKHOUSE PB/ PR-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 GRFFNFIELD, WISER NA/ PB ..EXPERIMENT/ STRUCTURE FACTOR ..X-RAY DIFFRACTION  
 72-RE-02 RFHARI PB ..THEORY/ SOLID/ LATTICE DYNAMICS  
 72-GO-02 GOMPFF, LAU+ PB/ AL/ CA ..EXPERIMENT/ PHONON SPECTRA/ COHERENT SCATTERING

65-KR-01 LI/ NA/ K \*\*THEORY/ SOLID/ DISPERSION RELATION  
 68-SM-01 LI \*\*EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION \*\*98DK/ LI7  
 69-IC-01 LI/ NA/ K/ HG/ PB \*\*DIFFUSION PARAMETER/ LIQUID/ THEORY \*\*LIQUID METAL/ FRICTION CONSTAN  
 69-KR-01 LI/ NA/ K/ RB/ CU/ AL/ PB/ FE/ NI/ PT/ COMPUTER-CODES \*\*PSEUDION APPROXIMATION/ FITTING TO  
 69-PR-02 LI/ NA/ K/ RB/ CS \*\*DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYN  
 69-WA-04 LI \*\*DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMICS \*\*PSEUDOPOTENTIAL/ PHONON/ GRUENEISEN  
 70-GU-01 LI \*\*DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS \*\*PSEUDOPOTENTIAL/ METAL  
 70-PA-03 LI \*\*THEORY/ LATTICE VIBRATION/ DISPERSION/ SHARM-JOSHI MODEL  
 70-PR-02 NA/ K/ LI/ RB \*\*THEORY/ DISPERSION RELATION \*\*PHONON LIFE TIMES DUE TO ELECTRON-PHONON INTE  
 70-SI-04 LI/ RB/ K/ CS/ \*\*THEORY/ LATTICE DYNAMICS/ SOLID/ DISPERSION RELATION \*\*ALKALI METAL  
 72-BA-02 BAJPAI, NEELAKANDAN LI/ NA/ K \*\*THEORY/ PHONON DISPERSION/ BCC METAL/ AXIALLY SYMMETRIC MODEL  
 72-PR-03 PRASAD, SRIVASTAVA LI \*\*THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION \*\*PSEUDOPOTENTIAL  
 72-SI-01 SINGH, PRAKASH LI/ NA/ K/ RB/ CS \*\*THEORY/ DISPERSION CURVE  
 72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS \*\*THEORY/ PHONON DISPERSION  
 72-SI-03 SINGH, SRIVASTAVA LI \*\*THEORY/ PHONON DISPERSION/ THERMAL EXPANSION/ GRUENEISEN PARAMETER

2. 33 MAGNESIUM

MG

58-EG-01 EGESTAFF BE/ MG/ SCATTERING-THEORIES \*\*THEORY/ EXPERIMENT/ SOLID/ SIGMA(E, E-PRIME, THETA)/ SIGMA(E) \*\*0  
 62-CO-03 COLLINS MG \*\*EXPERIMENT/ SOLID/ DISPERSION RELATION  
 62-EG-03 EGESTAFF MG/ BE/ PB \*\*THEORY/ SOLID/ LIQUID/ SIGMA(E, E-PRIME, THETA) \*\*METAL/ LIQUID METAL  
 63-1Y-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  
 65-1Y-01 IYENGER, VENKATARAMAN+ MG \*\*DISPERSION RELATION/ SOLID/ DISPERSION RELATION  
 65-1Y-02 IYENGER, VENKATARAMAN+ MG \*\*DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS  
 67-RO-03 ROY, VENKATARAMAN MG \*\*THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL  
 68-BR-01 BROVMAN, KAGAN+ BE/ MG/ ZN \*\*THEORY/ LATTICE DYNAMICS  
 68-PY-01 PYNNE, SQUIRES MG \*\*EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ TOF  
 68-SC-06 SCHNEIDER, STOLL NA/ MG/ AL \*\*THEORY/ LATTICE DYNAMICS \*\*ELECTRONIC STRUCTURE/ METAL  
 68-WA-03 WARREN CS, CL/ MG \*\*GROUP 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 MFTZBOWER BE/ MG/ ZN \*\*DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS \*\*NONCENTRAL-FORCE/ FIVE FORC  
 69-PI-01 PINDOR, PYNNE MG \*\*DISPERSION RELATION/ SOLID/ THEORY/ LATTICE DYNAMICS \*\*PHONON/ POTENTIAL/ METAL  
 70-CZ-01 CZACHOR, RAJCA MG/ CO/ Y \*\*THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ BORN-VON KARMAN MODEL \*\*AXIAL  
 70-FL-02 FLOYD, KLEINMAN 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-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/ DISPERSIO RELATION \*\*METAL/ PSEUDPOTENTIAL  
 71-SR-01 SRINIVASAN, RAO MG/ ZN/ BF \*\*THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ ANHARMONICS  
 72-BA-01 BAJPAI, ONO 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 PYNNE, SQUIRES MG \*\*EXPERIMENT/ PHONON DISPERSION/ PHONON DENSITY/ DERYE TEMP.

2. 34 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

## 2. 35 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-HO-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-RE-01 BEHARI, TRIPATHI FE/ MO/ W ••THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA  
 72-RUJ-07 BUYERS, POWELL ••EXPERIMENT/ PHONON DISPERSION/ KOHN ANOMALY/ TEMPERATURE EFFECT

## 2. 36 NEON

NE

65-CH-02 CHEN, EDER ••NEON/ ARGON/ DEUTERIUM/ CARBON TETRAFLUORIDE ••EXPERIMENT/ LIQUID/ SIGMATHETA•E  
 67-JA-01 JAEN, KHAN NE ••THEORY/ LIQUID/ STATISTICAL MECHANICS  
 69-LF-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-LF-01 LEECH, REISSLAND NE/ AR/ KR/ XE ••THEORY/ LATTICE DYNAMICS/ ANHARMONICITY ••THERMODYNAMICAL PROPERTIES  
 70-LF-02 LEFCH, REISSLAND NE/ AR/ KR/ XE ••THEORY/ ANHARMONICITY ••SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS  
 71-RE-01 BEHARI, TRIPATHI NE ••THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ DEBYE TEMP./ FREQUENCY SPECTRA  
 72-RU-03 BOHLIN NE ••THEORY/ INELASTIC SCATTERING PROFIL/ NUMERICAL CALCULATION/ SOLID  
 72-RUJ-06 BUYERS, SEARS ••NE/ SCATTERING-THEORIES ••THEORY/ EXPERIMENT/ LIQUID DYNAMICS/ COLLECTIVE MOTION/ SINGLE PA  
 72-EG-02 EGELSTAFF, WANG RB/ NF ••THEORY/ EXPERIMENT/ LIQUID/ STRUCTURE FACTOR ••DENSITY DEPENDENT POTENTIAL  
 72-HO-01 HORNER HE/ NE/ AR ••THEORY/ PHONON DISPERSION/ SELF-CONSISTENT 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  
 73-SF-01 SEARS NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS ••THEORY/ FLUID/ SCATTERING FUNCTION

## 2. 37 NICKEL

NI

63-MO-01 MOZER, OTONES NI/ PD/ NI-PD ••EXPERIMENT/ LATTICE DYNAMICS ••IMPURITY MODE  
 63-TC-01 TCHERNOPLEKOV, 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-MO-03 MOZER, OTNES ••NI/ V/ TI/ TI-ZR ••EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION  
 67-HA-02 HAUTECLER, VAN-DINGENEN NI ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ••ROOM TEMP  
 67-SI-01 SINGH NI ••LATTICE DYNAMICS/ THEORY/ FREQUENCY DISTRIBUTION ••DEBYE TEMPERATURE/ ODK-300DK  
 68-DE-02 DE-WIT, BROCKHOUSE NI ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ••DEBYE TEMPERATURE/ ODK-300DK  
 71-FR-01 FRIKKEE NI ••EXPERIMENT/ SOLID/ TOF/ DISPERSION RELATION ••400DC/ 300DC/ ROOM TEMP.  
 71-HA-03 HANKE NI ••THEORY/ METAL/ MODIFIED SHELL  
 71-PR-01 PRAKASH, JOSHI NI ••THEORY/ DISPERSION CURVE/ TWO-BAND MODEL/ HARTREE APPROXIMATION  
 71-SI-01 SINGH, SHARMA CU/ AG/ AU/ AL/ NI/ NA/ CR/ FE ••THEORY/ DEBYE-WALLER FACTOR

2. 38 NIOBIUM NB
- 63-NA-01 NAKAGAWA, WOODS NB  
 65-NA-01 NAKAGAWA, WOODS NB  
 65-WO-01 WOODS NB/ TA/ MO/ W  
 66-RO-01 ROSENSTOCK, BLANKEN NA/ NB/ MO/ TA/ W/ CU-ZN/ SN  
 68-GR-01 GRIMVALL AL/ NB/ PB  
 69-SH-02 SHARP NB  
 69-SH-03 SHARP NB  
 72-PO-02 POWELL, WOODS+ NB
- 63-NA-01 NAKAGAWA, WOODS NB ..EXPERIMENT/ SOLID/ DISPERSION RELATION  
 65-NA-01 NAKAGAWA, WOODS NB ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION  
 65-WO-01 WOODS NA/ NB/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELATION ..FORCE CONSTANTS FOR BORN-  
 66-RO-01 ROSENSTOCK, BLANKEN AL/ NB/ PB ..FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS ..DEBYE TEMP.  
 68-GR-01 GRIMVALL NB ..DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ DEBYE TEMPERATURE ..296DK/ TOF/ TRIPLE-AXIS  
 69-SH-02 SHARP NB ..KOHN EFFECT/ DISPERSION RELATION ..FERMI SURFACE  
 69-SH-03 SHARP NB ..EXPERIMENT/ PHONON DISPERSION/ 296 TO 1050K  
 72-PO-02 POWELL, WOODS+ NB ..EXPERIMENT/ PHONON DISPERSION/ 296 TO 1050K
2. 39 NITROGEN N
- 68-YO-01 YOUNG N ..SCATTERING THEORY/ MOLECULAR DYNAMICS
2. 40 NITROGEN N2
- 65-VE-02 VERTEBNYI, DZYUB+ N2/ O2 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID/ SOLIDS  
 68-MA-10 MATEESCU, TEUTSCH+ N2/ B1 ..EXPERIMENT/ TOF/ SCATTERING FUNCTION ..77.4DK FOR N2/ 560DK FOR B1  
 72-JA-01 JACOB, SCHNEPP C.O2/ H2/ N2 ..THEORY/ LATTICE DYNAMICS ..QUADRUPOL POTENTIAL
2. 41 OXYGEN O
- 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. 42 OXYGEN O2
- 65-VE-02 VERTEBNYI, DZYUB+ N2/ O2 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID/ SOLIDS
2. 43 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  
 71-MI-01 MILLER, BROCKHOUSE PD/ CU ..EXPERIMENT/ CALCULATION/ NEUTRON SCATTERING/ DISPERSION CURVE/ FREQUENCY SPECT
2. 44 PLATINUM PT
- 68-OH-01 OHRlich, DREXEL PT ..EXPERIMENT/ LATTICE DYNAMICS/ TOF/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION  
 71-KO-01 KONI 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
2. 45 POTASSIUM K
- 65-KR-01 KRERS LI/ NA/ K ..THEORY/ SOLID/ DISPERSION RELATION

66-CO-02 COWLEY, WOODS+ K \*\*LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION \*\*9DK  
 68-HO-01 HO THEORY-OF-SOLIDS/ NA/ K \*\*DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS  
 69-RO-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/ PR/ 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-02 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  
 72-BA-02 BAJPAI, NEELAKANDAN LI/ NA/ K \*\*THEORY/ PHONON DISPERSION/ BCC METAL/ AXIALLY SYMMETRIC MODEL  
 72-GR-01 GREENFIELD, WISER+ NA/ K \*\*THEORY/ LIQUID/ STRUCTURE FACTOR/ HARD-SPHERE MODEL  
 72-SI-01 SINGH, PRAKASH LI/ NA/ K/ RB/ CS \*\*THEORY/ DISPERSION CURVE  
 72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS \*\*THEORY/ PHONON DISPERSION

## 2. 46 RUBIDIUM

RB

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-07 COPLEY, BROCKHOUSE+ RB \*\*EXPERIMENT/ DISPERSION RELATION \*\*120DK  
 69-RO-01 BOFFEY K/ RB \*\*DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS \*\*ELECTRON-PHONON INTERACTION/ EXC  
 69-KR-01 KRFB, HOELZL LI/ NA/ K/ RB/ CU/ AI/ PR/ 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 RB \*\*THEORY/ FREQUENCY SPECTRUM/ DERIVE 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-FG-01 EGELSTAFF, PAGE+ RB/ AR/ C-CL4 \*\*EXPERIMENT/ TRIPLET CORRELATION FUNCTION/ THEORY  
 72-FG-02 EGELSTAFF, WANG RB/ NE \*\*THEORY/ EXPERIMENT/ LIQUID/ STRUCTURE FACTOR \*\*DENSITY DEPENDENT POTENTIAL  
 72-SC-01 SCHOMMERS RB \*\*SCATTERING LAW/ FLUID STATE/ STRUCTURE FACTOR  
 72-SI-01 SINGH, PRAKASH LI/ NA/ K/ RB/ CS \*\*THEORY/ DISPERSION CURVE  
 72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS \*\*THEORY/ PHONON DISPERSION  
 72-SU-01 SUCK, GLAESER RB \*\*EXPERIMENT/ LIQUID AND SOLID/ COLLECTIVE EXCITATION  
 73-SF-01 SFARS NEON/ RUBIDIUM/ HYDROGEN/ THEORY-OF-FLUIDS \*\*THEORY/ FLUID/ SCATTERING FUNCTION

## 2. 47 SCANDIUM

SC

71-WA-01 WAKABAYASHI, SINHA+ SC \*\*EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON DENSITY/ DERBYE TEMPERATURE

## 2. 48 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-HF-01 HENNINGER, RUSCHERT+ SE \*\*SIGMA(THETA,F)/ CORRELATION FUNCTION/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION E  
 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

2. 49 SILICON

SI

59-PR-03 BROCKHOUSE GE/ SI ..EXPERIMENT/ DISPERSION RELATION  
 61-DO-01 DOLLING SI ..EXPERIMENT/ DISPERSION RELATION  
 63-DO-01 DOLLING SI ..EXPERIMENT/ DISPERSION RELATION  
 65-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  
 68-MA-07 MARTIN SI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION  
 70-PA-01 PAL SI ..THEORY/ DISPERSION RELATION  
 70-SO-01 SOLBIG SI ..THEORY/ SOLID/ DISPERSION RELATION/ LATTICE DYNAMICS/ FORCE CONSTANTS ..VALENCE FORCE  
 71-SO-01 SOLBRIG-JR SI ..THEORY/ PHONON DISPERSION/ VALENCE FORCE POTENTIAL  
 72-JE-01 JEX GE/ SI ..THEORY/ PHONON/ ANHARMONIC INTERACTION  
 72-TH-02 THOMA, ZIMMERMANN SI ..CALCULATION/ SURFACE PHONON  
 72-TU-01 TURINO, PISERI+ DIAMOND/ SI/ GE/ SN ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL

2. 50 SILVER

AG

69-DR-01 DREXEL, GLAESER+ AG ..DISPERSION RELATION/ BORN-VON KARMAN MODEL/ EXPERIMENT ..ROOM TEMPERATURE/ PSEUDORAND  
 69-VA-02 KAMITAKAHARA, BROCKHOUSE SI ..DISPERSION RELATION/ EXPERIMENT/ CONSTANT-0 METHOD ..ROOM TEMPERATURE  
 70-BE-03 BEHARI, TRIPATHI CU/ AG/ AU ..THEORY/ LATTICE VIBRATION/ DISPERSION RELATION  
 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-SH-01 SHARMA, SINGH EU/ AG/ AU ..THEORY/ PHONON DISPERSION/ METAL  
 71-SI-01 SINGH, SHARMA CU/ AG/ AU/ AL/ NI/ NA/ CR/ FE ..THEORY/ DERYE-WALLER FACTOR  
 72-DR-01 DREXFL AG ..EXPERIMENT/ PSEUDOPOTENTIAL ANALYSIS/ PHONON DISPERSION

2. 51 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-03 COCKING NA ..EXPERIMENT/ LIQUID ..DOUBLE DIFFERENTIAL CROSS SECTION  
 64-RA-02 RANDOLPH NA ..SCATTERING LAW / STRUCTURE FACTOR/ LIQUIDS  
 65-KR-01 KRFB5 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-HR-04 BRUGGER METHANE/ ETHANE/ AL/ NA/ PR/ AR ..COMPILATION/ SCATTERING FUNCTION  
 66-DI-01 DIEDERICH, TRIVISONNO NA ..EXPERIMENT ..SINGLE CRYSTAL/ 78 DK TO 195 DK/ ULTRASONIC PULSE ECHO TECHNIQUE  
 66-OF-01 OFHME, RICHTER CS/ BI/ NA ..STRUCTURE FACTOR  
 66-PA-02 PASKIN, RAHMANN NA ..THEORY/ LIQUID ..MOLECULAR POTENTIAL/ RADIAL DENSITY FUNCTION  
 66-PA-03 PASKIN REVIEW-ARTICLES/ AR/ NA/ CE/ RB ..LIQUID/ THEORY/ STRUCTURE FACTOR/ VELOCITY AUTOCORRELATION  
 66-RO-01 ROSENSTOCK, BLANKEN NA/ NR/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELATION ..FORCE CONSTANTS FOR BORN-  
 67-FF-01 FERZIGER, FEINSTEIN NEUTRON-SCATTERING-IN-FLUIDS/ NA ..SCATTERING THEORY/ GAS/ 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 ..375.80K/ 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-DF-02 DEZAI, 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 KRFB, HOELZL LI/ NA/ K/ RR/ CU/ AL/ PR/ 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-RF-02 BEHARI, TRIPATHI NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ..BCC METAL  
 70-CO-06 COULTHARD 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-02 KUSHWAHA, RAJPUT THEORY-OF-SOLIDS/ NA/ K ..PHONON DISPERSION CURVE/ METAL/ BCC  
 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-RA-03 BAJPAI, NEELAKANDAN NA ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE/ AXIALLY SYMMETRIC MODEL  
 71-GR-01 GREENFIELD, WISER+ NA/ PR ..EXPERIMENT/ STRUCTURE FACTOR ..X-RAY DIFFRACTION  
 71-JA-01 JAIN, BHANDARI AR/ NA ..THEORY/ MEMORY FUNCTION/ LIQUID DYNAMICS  
 71-NA-01 NAKAHARA NEUTRON-SCATTERING-IN-FLUIDS/ NA ..THEORY/ SCATTERING SIGMA/ LIQUID METAL  
 72-RA-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-SI-01 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE  
 72-SI-02 SINGH, PRAKASH LI/ NA/ K/ RB/ CS ..THEORY/ PHONON DISPERSION  
 72-TO-02 TONG NA ..THEORY/ LOCAL-EFFECTIVE-POTENTIAL APPROX./ LATTICE PARAMETER/ COMPRESSIBILITY/ COHESIVE EN
2. 52 SULPHUR S
- 71-PA-03 PAWLEY, RINALDI+ S ..THEORY/ EXPERIMENT/ PHONON DISPERSION
2. 53 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/ NR/ MO/ TA/ W/ CU-ZN/ SN ..THEORY/ DISPERSION RELATION ..FORCE CONSTANTS FOR BORN-
2. 54 TECHNETIUM TC
- 72-SM-02 SMITH, WAKABAYASHI+ NR, C/ 7R, C/ TC/ ZR/ Y ..EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION

2. 55 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
2. 56 TERMIUM
- TB
- 70-HO-01 HOUMANN, NICKLOW TB ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES/ CONST. ••METHOD ••FREQUENCY SPECTRA
2. 57 THALLIUM
- TL
- 68-NO-01 NORTH, ENDERBY+ ZN/ TL/ PR/ SN/ BI ••EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ••LIQUID METAL/ 340DC-11000  
 70-SH-03 SHARAN, BAJPAI BE/ MG/ TL ••THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION ••HEXAGONAL METAL  
 71-KU-02 KUSHWAHA BE/ TL ••NON-CENTRAL FORCE MODEL  
 71-WO-01 WORLTON, SCHMUNK TL ••EXPERIMENT/ PHONON DISPERSION/ FREQUENCY SPECTRA ••77DK/ 296DK  
 72-BA-01 BAJPAI 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
2. 58 TIN
- SN
- 61-PA-01 PALIVSKY H2O/ PR/ SN ••EXPERIMENT/ LIQUID ••ROOM TEMP. ••45DC FOR H2O/ 462DC FOR PB/ 350DC FOR SN/ BE-F  
 63-PR-02 BROCKHOUSE, BERGSMAN+ SN/ H2O/ AR/ HE ••EXPERIMENT/ LIQUID  
 63-CO-04 COCKING, GUNER SN ••EXPERIMENT/ SOLID/ LIQUID  
 63-FG-03 EGFSTAFF 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-WF-01 DE-WAMES, LEHMAN SN ••THEORY/ SOLID/ LATTICE DYNAMICS  
 65-HO-01 BORGONOVII, CAGIOTTI+ SN ••EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RELATION ••ROOM TEMPERATURE/ BODY C  
 65-BR-02 BROVMAN, KAGAN SN ••SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION  
 65-CO-03 COCKING, EGELSTAFF PB/ SN ••EXPERIMENT/ LIQUID/ DISPERSION RELATION  
 65-LO-02 LONG-PRICE SN ••EXPERIMENT/ TOF/ DISPERSION RELATION ••ROOM TEMPERATURE/ BODY CENTERED TETRAGONAL  
 65-MU-01 MUSGRAVE SN ••THEORY/ SOLID/ LATTICE DYNAMICS  
 65-PA-01 PALEVSKY PB/ H2O/ SN ••EXPERIMENT/ LIQUID  
 65-RO-04 ROWE, BROCKHOUSE+ SN ••EXPERIMENT/ DISPERSION RELATION ••BODY CENTERED TETRAGONAL  
 65-SC-02 SCHMUNK, GAUJIN SN ••EXPERIMENT/ DISPERSION RELATION ••BODY CENTERED TETRAGONAL CRYSTAL  
 66-EG-01 EGFSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ••EXPERIMENT/ LIQUID/ STRUCTURE FACTOR  
 67-PR-02 BROVMAN, KAGAN SN/ SN•02 ••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-03 KAY, RITTER SN ••SCATTERING AMPLITUDE/ EXPERIMENT  
 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-NO-01 NORTH, ENDERBY+ ZN/ TL/ PR/ SN/ BI ••EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ••LIQUID METAL/ 340DC-11000  
 69-PR-05 PRICE, ROWE SN ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES/ CONST. ••METHOD/ FREQUENCY SPECTRUM ••90DK/ 250  
 71-PR-04 PRICE, ROWE+ SN/ IN-SR ••EXPERIMENT/ PHONON DISPERSION CURVE ••90DK FOR SN/ 300DK FOR IN-SR



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-01 KAM, GILAT SN ..THEORY/ PHONON DISPERSION/ STATE DENSITY/ MODEL POTENTIAL  
 72-KA-03 KAMMER, CARDINAL+ BI/ SN ..EXPERIMENT/ ELASTIC CONSTANT  
 72-TU-01 TURINO, PISERI+ DIAMOND/ SI/ GE/ SN ..THEORY/ PHONON DISPERSION/ PHONON DENSITY/ VALENCE FORCE POTENTIAL

2. 59 TITANIUM TI

65-MO-03 MOZER, OTNES+ NI/ V/ TI/ TI-ZR ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION  
 68-NO-03 NORTH, ENDERBY+ PB/ TI ..STRUCTURE FACTOR  
 70-SH-06 SHARAN, BAJPAL Y/ TI ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE  
 72-HA-01 BAJPAL MG/ ZR/ Y/ TI/ TL/ HF ..THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE  
 73-RA-01 RAO, MENON TI ..THEORY/ PHONON DISPERSION/ SOE CONSTANT/ THERMAL EXPANSION/ KEATING-S APPROX

2. 60 TUNGSTEN W

64-CH-01 CHEN, BROCKHOUSE W ..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-  
 70-AL-01 ALEXANDROV, KOESTER+ W ..EXPERIMENT/ SCATTERING AMPLITUDE/ SMALL ANGLE SCATTERING  
 70-AL-02 ALEXANDROV, BALAGUROV+ W ..EXPERIMENT/ DEBYE-WALLER FACTOR  
 72-RE-01 BEHARI, TRIPATHI FE/ MO/ W ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA

2. 61 URANIUM U

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

2. 62 VANADIUM V

51-FG-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-FI-01 EISENHAEUER, PELAH+ V ..EXPERIMENT/ FREQUENCY DISTRIBUTION  
 58-ST-01 STFWART, 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-PF-01 PFLAH, HAAS+ V ..FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS  
 63-ZF-01 ZFMLYANOV, KAGAN+ V ..DISPERSION RELATION/ FREQUENCY SPECTRUM  
 65-GL-01 GLAESER, CARVALLO+ V ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION/ TOF/ ROTATING CRYSTAL SPECTROMETER ..ROU  
 65-MO-03 MOZER, OTNES+ NI/ V/ TI/ TI-ZR ..EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION FOR V/ 150 DC FOR V-H/ LOCALIZED MODE IN V DUE TO  
 65-RU-01 RURIN, 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/ SI/ 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-ZF-01 ZEMLIYANOV, MIRONOV+ V ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL MODE

69-RL-01 BLAESSER, 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 KFATING V ..EXPERIMENT/ PHONON FREQUENCY DISTRIBUTION

2. 63 XENON XE  
70-GL-01 GLYDE NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY  
70-LE-01 LEFFCH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ LATTICE DYNAMICS/ ANHARMONICITY ..THERMODYNAMICAL PROPERTIES  
70-LE-02 LEFFCH, REISSLAND NE/ AR/ KR/ XE ..THEORY/ ANHARMONICITY ..SPECIFIC HEAT/ DEBYE TEMPERATURE/ THERMAL EXPANS  
71-HJ-01 HUELLER THEORY-OF-SOLIDS/ ARGON/ KRYPTON/ XENON ..CAUCHY-RELATION

2. 64 YTTRIUM Y  
70-C7-01 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 LAATEENKORVA 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-06 SINHA, BRUN+ Y ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..MODIFIED AXIALLY SYMMETRIC MODEL FITT  
70-SI-07 SINHA, BRUN+ Y ..EXPERIMENT/ LATTICE DYNAMICS/ AS-MODEL FITTING/ FREQUENCY SPECTRA/ SPECIFIC HEAT  
72-RA-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/ ZR/ Y ..EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION

2. 65 ZINC ZN  
63-RA-02 RARGONOV, CAGLIOTI+ 7N ..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-02 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 EGFSTAFF, DUFFILL+ PB/ SN/ BI/ ZN/ AL ..EXPERIMENT/ LIQUID/ STRUCTURE FACTOR  
67-CA-01 CAGLIOTI, CORCHIA+ ZINC ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION  
68-RR-01 BROVMAN, KAGAN+ BE/ MG/ ZN ..THEORY/ LATTICE DYNAMICS  
68-CA-01 CAGLIOTI, RIZZI+ ZN ..EXPERIMENT/ LATTICE DYNAMICS/ ANHARMONIC CONTRIBUTION  
68-DA-04 DASANNACHARYA, NAVARRO+ ZN ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION  
68-IV-02 IYENGAR, VENKATARAMAN+ ZN ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..KOHN EFFECT  
68-NO-01 NORTH, ENDERRY+ ZN/ TL/ PB/ SN/ BI ..EXPERIMENT/ LIQUID/ STATISTICAL MECHANICS ..LIQUID METAL/ 340DC-11000  
69-CA-01 CAGLIOTI, CORCHIA+ ZINC ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION/ PAIR POTENTIAL  
69-GI-02 GILAT, RIZZI+ BF/ MG/ ZN ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..METAL/ MODEL POTENTIAL CALCULATION  
69-MC-01 MCDONALD, ELCOMBE+ ZINC ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ CONST..@ METHOD  
69-MF-02 MFTZROWER 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/ 80-6700K  
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-KU-03 KUSHWAHA, RAJPUT ZN ..THEORY/ PHONON DISPERSION/ HEXAGONAL METAL  
71-SR-01 SRINIVASAN, RAO MG/ ZN/ BF ..THEORY/ PHONON DISPERSION/ ELASTIC CONSTANT/ ANHARMONICS  
72-RA-03 BAJPAI 7N ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION ..PSEUDOPOTENTIAL

2. 66 ZIRCONIUM

ZR

70-RE-06 BFZDEK, SCHMUNK\* ZR \*\*EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON DENSITY  
70-SH-05 SHARAN, BAJPAL ZR/ HF \*\*THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ DEBYE TEMPERATURE  
72-BA-01 BAJPAL MG/ ZR/ Y/ TL/ HF \*\*THEORY/ PHONON DISPERSION/ FOURTH NEIGHBOURS MODEL/ HEXAGONAL LATTICE  
72-SM-02 SMITH, WAKABAYASHI\* NR.C/ ZR.C/ TC/ ZR/ Y \*\*EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION

## 3 ALLOYS

3. 1 ALUMINIUM-THORIUM HYDRIDE AL-TM-H  
61-BE-02 BERGMA, GOEDKOOP PD-H/ AI-TM-H/ CA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION
3. 2 BARIUM HYDRIDE BA-H  
70-MA-02 MAFLAND YB-H/ CA-H/ SR-H/ BA-H ..EXPERIMENT/ FREQUENCY SPECTRUM
3. 3 BARIUM-LITHIUM HYDRIDE BA-LI-H  
69-MA-01 MAFLAND BA-LI-H/ SR-LI-H ..EXPERIMENT/ SPECTRAL DENSITY ..PEROVSKITE STRUCTURE/ BA-LI-H3/ SR-LI-H3
3. 4 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. 5 BISMUTH-LEAD-THALLIUM BI-PB-TL  
68-NG-01 NG, BROCKHOUSE PB-TL/ BI-TL/ BI-PB/ BI-PB-TL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..100DK/  
3. 6 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. 7 BISMUTH-ZINC BI-ZN  
67-EG-03 EGELSTAFF, WIGNALL BI-ZN ..EXPERIMENT/ LIQUID ..QUASI-ELASTIC SCATTERING/ CONCENTRATION FLUCTUATION
3. 8 CALCIUM HYDRIDE CA-H  
61-BF-02 BERGMA, GOEDKOOP PD-H/ AI-TM-H/ CA-H ..EXPERIMENT/ FREQUENCY DISTRIBUTION  
70-MA-02 MAFLAND YB-H/ CA-H/ SR-H/ BA-H ..EXPERIMENT/ FREQUENCY SPECTRUM
3. 9 CERIUM HYDRIDE CE-H  
67-KA-02 KARIMOV, BROVMAN+ TH-H/ U-H/ CE-H ..LATTICE DYNAMICS/ THEORY  
68-KA-03 KARIMOV, BROVMAN+ CE-H/ TH-H/ U-H ..LATTICE DYNAMICS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ..TOF/ 200C

3. 10 CHROMIUM-TUNGSTEN  
 CR-W  
 65-MO-02 MOELLER, MACKINTOSH CR-W ..DISPERSION 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-KF-01 KESHARWANI, AGRAWAL CR-W ..THEORY/ DILUTE ALLOY/ PHONON DISPERSION AND WIDTHS/ MASS AND FORCE CONSTANT CHA  
 72-KF-02 KESHARWANI, AGRAWAL CR-W ..EXPERIMENT/ PHONON/ ALLOY/ IMPURITY EFFECT
3. 11 COPPER-ALUMINIUM  
 CU-AL  
 68-NI-01 NICKLOW, VIJAYARAGHAVAN+ CU-AL ..EXPERIMENT/ LATTICE VIBRATION ..LOCAL MODE
3. 12 COPPER-BERYLLIUM  
 CU-BE  
 67-NA-02 NATKANIEC, PARLINSKI+ MG-LI/ CU-BE ..EXPERIMENT/ LOCAL VIBRATION/ NEUTRON SPECTROSCOPY  
 68-NA-03 NATKANIEC, PARLINSKI+ CU-RE/ CU-MG/ PR-NA/ PB-MG ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL VIBRATION
3. 13 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- $\theta$  METHODS/ ROOM TEMP.  
 71-BR-04 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
3. 14 COPPER-MAGNESTIUM  
 CU-MG  
 68-NA-03 NATKANIEC, PARLINSKI+ CU-RE/ CU-MG/ PR-NA/ PB-MG ..EXPERIMENT/ LATTICE DYNAMICS ..ALLOY/ LOCAL VIBRATION
3. 15 COPPER-NICKEL  
 CU-NI  
 68-SA-01 SAKAMOTO, HAMAGUCHI CU-NI ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..ALLOYS  
 69-MO-03 MOZER, PRICE+ CU-NI ..LIQUID/ SOLID/ EXPERIMENT/ ..NEAR THE MELT
3. 16 COPPER-ZINC  
 CU-ZN  
 64-DO-01 DOLLING, GILAT CU-ZN ..EXPERIMENT/ DISPERSION RELATION  
 65-DO-02 DOLLING, GILAT CU-ZN ..EXPERIMENT/ DISPERSION RELATION ..2 $\theta$ 6DK/ PHASE TRANSITION  
 65-GI-02 GILAT, DOLLING CU-ZN ..EXPERIMENT/ DISPERSION RELATION/ LATTICE VIBRATION ..2 $\theta$ 6DK/ ALLOYS  
 69-AL-01 ALS-NIELSEN CU-ZN ..NEUTRON DIFFRACTION/SHORT RANGE ORDER PARAMETER  
 69-HA-01 HALLMAN, BROCKHOUSE NI-FE/ CU-ZN ..DISPERSION RELATION/ CONSTANT- $\theta$  METHOD/ FREQUENCY DISTRIBUTION ..FCC AL  
 70-GI-01 GILAT CU-ZN ..THEORY/ FLAT PHONON/ ORDER DISORDER TRANSITION
3. 17 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
3. 18	IRON-ALUMINIUM	FE-AL	
68-VA-02	VAN-DIJK, BERGSM	FE/ FE-AL	EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION
70-VA-02	VAN-DIJK	FE-AL	EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES
70-VA-03	VAN-DIJK	FE/ FE-AL	EXPERIMENT/ LATTICE DYNAMICS/ PHONON DISPERSION
3. 19	LANTHANUM HYDRIDE	LA-H	
71-NA-01	MAFLAND, HOLMES	LANTHANUM HYDRIDE	EXPERIMENT/ FREQUENCY SPECTRA
3. 20	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/ PR-NA/ PB-MG	EXPERIMENT/ LATTICE DYNAMICS
3. 21	LEAD-SODIUM	PB-NA	
68-NA-03	NATKANIEC, PARLINSKI*	CU-BE/ CU-MG/ PR-NA/ PB-MG	EXPERIMENT/ LATTICE DYNAMICS
3. 22	LEAD-THALLIUM	PB-TL	
68-NG-01	NG, BROCKHOUSE	PB-TL/ BI-TL/ BI-PB/ BI-PB-TL	EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION
69-RO-01	ROWELL, MCMILLAN*	PB/ PB-TL	EXPERIMENT/ SPECTRAL DENSITY
70-RO-03	ROY, BROCKHOUSE	PB/ PB-TL	EXPERIMENT/ FREQUENCY SPECTRA/ POLYCRYSTALLINE SAMPLES/ TRIPLE AXIS SPECTROMET
3. 23	MAGNESIUM HYDRIDE	MG-H	
58-MC-01	MCREYNOLDS, NELKIN*	H2.O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE	EXPERIMENT/ THEORY/ LIQUID/ SOLID
3. 24	MANGANESE-COBALT	MN-CO	
58-ST-01	STEWART, BROCKHOUSE	V/ MN-CO	EXPERIMENT/ FREQUENCY DISTRIBUTION
3. 25	MAGNESIUM-LITHIUM	MG-LI	
67-NA-02	NATKANIEC, PARLINSKI*	MG-LI/ CU-BE	EXPERIMENT/ LOCAL VIBRATION/ NEUTRON SPECTROSCOPY
3. 26	MANGANESE-PLATINUM	MN-PT	
72-AN-02	ANTONINI, MINKIEWICZ	MN-PT	EXPERIMENT/ DISPERSION RELATION/ MN-PT3
			SPIN WAVE AND PHONON

3. 27 NICKEL-IRON  
 NI-FE  
 69-HA-01 HALLMAN, BROCKHOUSE NI-FE/ CU-ZN •DISPERSION RELATION/ CONSTANT- $\theta$  METHOD/ FREQUENCY DISTRIBUTION •FCC AL
3. 28 NICKEL-PALLADIUM  
 NI-PD  
 62-MO-01 MOYER, OTNES+ NI-PD •EXPERIMENT/ LATTICE VIBRATION •DEFECT MODE/ DISORDERED ALLOYS  
 63-MO-01 MOYER, OTNES+ NI/ PD •EXPERIMENT/ LATTICE DYNAMICS •IMPURITY MODE  
 72-KA-02 KAMITAKAHARA, BROCKHOUSE NI-PD •EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MASS EFFECT
3. 29 NIORIUM HYDRIDE  
 NB-H  
 65-KL-01 KLFY, PERETTI+ V-H/ NR-H/ PD-H •EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION •500C FOR V-H/ 33DC FOR NB-H.  
 67-RJ-01 RISCHOFF, BRYANT+ POLYETHYLENE/ H<sub>2</sub>O/ ZR-H/ NB-H/ U.O<sub>2</sub> •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.O<sub>2</sub>/ ZR-H/ TI-H/ NR-H/ TH-H •SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT  
 68-VF-02 VERDAN, RUBIN+ V-H/ NR-H •EXPERIMENT/ LATTICE DYNAMICS •2000C  
 70-GI-02 GISSLER, ROTHER NB-H •THEORY/ DIFFUSION OF HYDROGEN IN METAL HYDRIDE/ QUASIELASTIC  
 70-GO-03 GOSSLER, ALEFOLD+ NB-H •IMPURITY  
 70-KU-01 RURIN, CLAESSEN TB-H/ NR-H •SOLID/ QUASI-ELASTIC PEAK  
 72-AL-01 ALFFELD, BOHN+ NB-H •EXPERIMENT/ HYDROGEN DIFFUSION/ QUASI-ELASTIC  
 72-RI-01 BIRCHALL, ROSS NR-H •EXPERIMENT/ LOCAL MODE/ SINGLE CRYSTAL/ 130C-400C  
 72-ST-04 STUMP, GISSLER+ NB-H •EXPERIMENT/ HYDROGEN DIFFUSION/ SINGLE CRYSTAL
3. 30 NIORIUM-MOLYBDENUM  
 NB-MO  
 65-WO-02 WOODS, POWELL NR-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. 31 PALLADIUM HYDRIDE  
 PD-H  
 61-RE-02 BERGSMÄ, GOEDKOOP PD-H/ AL-TH-H/ CA-H •EXPERIMENT/ FREQUENCY DISTRIBUTION  
 65-KL-01 KLFY, PERETTI+ V-H/ NR-H/ PD-H •EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION •500C 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-HF-01 BFG, ROSS PD-H •EXPERIMENT/ QUASIELASTIC SCATTERING •DIFFUSIVE MOTION  
 71-RO-05 ROWE, SKOELD+ PD-H •EXPERIMENT/ QUASIELASTIC SCATTERING •DIFFUSIVE MOTION
3. 32 PALLADIUM-IRON  
 PD-FE  
 70-MA-03 MALISZEWSKI, SOSNOWSKI+ PD-FE •EXPERIMENT/ PHONON DISPERSION CURVE
3. 33 PALLADIUM-SILVER HYDRIDE  
 PD-AG-H

- 72-CH-04 CHOWDHURY, ROSS PD-AG-H ••EXPERIMENT/ QUASIELASTIC/ DIFFUSION/ 100C-360C
3. 34 STRONTIUM HYDRIDE SR-H  
 70-MA-02 MAFLAND YB-H/ CA-H/ SR-H/ BA-H ••EXPERIMENT/ FREQUENCY SPECTRUM
3. 35 STRONTIUM-LITHIUM HYDRIDE SR-LI-H  
 69-MA-01 MAFLAND BA-LI-H/ SR-LI-H ••EXPERIMENT/ SPECTRAL DENSITY ••PEROVSKITE STRUCTURE/ BA-LI-H3/ SR-LI-H3
3. 36 TANTALUM HYDRIDE TA-H  
 72-DE-02 DE-GRAAF, RUSH† V-H/ TA-H ••EXPERIMENT/ QUASIELASTIC/ HYDROGEN DIFFUSION IN METAL
3. 37 TANTALUM-NIOBIUM TA-NB  
 68-AI-02 ALS-NIELSEN TA-NB ••EXPERIMENT/ LATTICE DYNAMICS ••CRYSTAL SPECTROMETER/ LOCALIZED PHONON
3. 38 TERBIUM HYDRIDE TB-H  
 70-RU-01 RUIJN, CLAESSEN TB-H/ NB-H ••SOLID/ QUASI-ELASTIC PEAK
3. 39 THORIUM HYDRIDE TH-H  
 67-KA-02 KARIMOV, BROVMAN† TH-H/ U-H/ CE-H ••LATTICE DYNAMICS/ THEORY  
 68-KA-03 KARIMOV, BROVMAN† CE-H/ TH-H/ U-H ••LATTICE DYNAMICS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ••TOF/ 20DC
3. 40 TITANIUM HYDRIDE TI-H  
 63-SA-02 SAUNDERSON, COCKING TI-H ••EXPERIMENT/ SCATTERING LAW/ FREQUENCY DISTRIBUTION  
 66-RR-02 BROECKER N•H•CL/ N•H•RR/ N•H•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. 41 TITANIUM-URANIUM TI-U  
 67-CH-02 CHERNOPEKOV, PANOVA† TI-U ••EXPERIMENT/ LOCAL MODE/ TI0.95-U0.05
3. 42 TITANIUM-ZIRCONIUM TI-ZR  
 63-CH-01 CHERNOPEKOV, ZEMLYANOV† TI-ZR ••FREQUENCY DISTRIBUTION/ EXPERIMENT ••ALLOY  
 65-MO-03 MOTER, OTNES† NI/ V/ TI/ TI-ZR ••EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION



3. 43 URANIUM HYDRIDE U-H  
 Y-H/ U-H ••EXPERIMENT/ HYDROGEN VIBRATION/ OPTICAL BAND SPECTRA  
 TH-H/ U-H/ CE-H ••LATTICE DYNAMICS/ THEORY  
 CE-H/ TH-H/ U-H ••LATTICE DYNAMICS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ••TOF/ 200C  
 65-RU-03 RUSH, FLOTOW+  
 67-KA-02 KARIMOV, BROVMAN+  
 68-KA-03 KARIMOV, BROVMAN+
3. 44 VANADIUM-BERYLLIUM V-BE  
 V-BE/ V-NI/ V-PT ••EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ ALLOY  
 66-MO-01 MOZER, OTNES+
3. 45 VANADIUM HYDRIDE V-H  
 V-H/ NB-H/ PD-H ••EXPERIMENT/ SOLID/ FREQUENCY DISTRIBUTION ••50DC FOR V-H/ 33DC FOR NB-H,  
 V/ V-H ••EXPERIMENT/ SOLID/ ••ROOM TEMP. FOR V/ 150 DC FOR V-H/ LOCALIZED MODE IN V DUE TO  
 V-H ••FREQUENCY DISTRIBUTION/ EXPERIMENT  
 V-H/ NB-H ••EXPERIMENT/ LATTICE DYNAMICS ••200DC  
 V-H ••EXPERIMENT/ QUASIELASTIC/ DIFFUSION BROADENING  
 V-H/ TA-H ••EXPERIMENT/ QUASIELASTIC/ HYDROGEN DIFFUSION IN METAL  
 V-H ••EXPERIMENT/ PHONON SPECTRA/ 300K, 425K  
 65-KL-01 KLEY, PERETTI+  
 65-RU-01 RUSH, PERETTI+  
 68-RU-01 RUSH, FLOTOW  
 68-VE-02 VERDAN, RUBIN+  
 72-DE-01 DF-GRAAF, RUSH+  
 72-DE-02 DF-GRAAF, RUSH+  
 72-RO-04 ROWE
3. 46 VANADIUM-NICKEL V-NI  
 V-BE/ V-NI/ V-PT ••EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ ALLOY  
 66-MO-01 MOZER, OTNES+
3. 47 VANADIUM-PLATINUM V-PT  
 V-BE/ V-NI/ V-PT ••EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ ALLOY  
 66-MO-01 MOZER, OTNES+
3. 48 YTTRIUM HYDRIDE Y-H  
 POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H ••EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI  
 Y-H/ U-H ••EXPERIMENT/ HYDROGEN VIBRATION/ OPTICAL BAND SPECTRA  
 65-WH-01 WHITEMORE  
 66-RU-03 RUSH, FLOTOW+
3. 49 YTTERBIUM HYDRIDE YB-H  
 YB-H/ CA-H/ SR-H/ BA-H ••EXPERIMENT/ FREQUENCY SPECTRUM  
 70-MA-02 MAFLAND
3. 50 YTTRIUM-ZINC Y-ZN  
 Y-ZN ••EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MODEL ANALYSIS/ FREQUENCY DISTRIBUTION/ DEB  
 72-PR-05 PRVENDER, SINHA+
3. 51 ZIRCONIUM HYDRIDE ZR-H

57-AN-01 ANDERSON, MCREYNOLDS+ ZR-H .EXPERIMENT/ SIGMA (E-E-PRIME,THETA)  
 58-NC-01 MCFYNOLS, MELKIN+ H2.O/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE .EXPERIMENT/ THEORY/ LIQUID/ SOLID  
 61-BR-03 BRUGER 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-LF-01 LEFMAN, 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-RE-02 BEYSTER, YOUNG+ H2.O/ D2.O/ ZR-H .SCATTERING LAW/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID .20DC FOR  
 65-GL-03 GLAESER, EHRET+ C6+H6/ H2.O/ ZR-H .EXPERIMENT/ LATTICE DYNAMICS .INCOHERENT/ TOF/ 295DK  
 65-HA-04 HARLING, LEONARD-JR ZR-H .EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER  
 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-02 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/ 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-RF-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-03 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-RF-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-PJ-01 PIROHIT, PAN+ U.C/ U.O2/ ZR-H/ TI-H/ NR-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 H2.O/ ZR-H .THEORY/ CROSS SECTION EVALUATION  
 68-JH-01 THORSON ZR-H/ U.O2 .SCATTERING FUNCTION/ EXPERIMENT/ SOLID .DIFFERENTIAL SCATTERING CROSS SECTION  
 69-CA-03 CARRIVEAU, BORGONOVI+ ZR-H .SIGMA (THETA,F)/ 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 (F-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(F)/ SOLID

## 4 INORGANIC COMPOUNDS

4. 1 AMMONIA  
N.H3  
NEUTRON-SCATTERING-INFLUIDS/ H2/ C.H4/ N.H3/ H2.O ..SCATTERING THEORY ..MOLECULAR GASES  
N.H3/ N.H4.I/ N.H4.BR/ N.H4.CL/ N.H4.F ..EXPERIMENT/ MOLECULAR DYNAMICS ..TOTAL CROSS SECTIU  
C.H4/ N.H3/ H2.S/ H2.O ..SIGMA(E)/ EXPERIMENT/ LIQUID  
N.H3 ..EXPERIMENT/ TOTAL CROSS SECTION/ LIQUID  
C.H4/ N.H3/ H2 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ GAS ..ROOM TEMPERATURE  
C.H4/ N.H3/ H2 ..SIGMA(E,E-PRIME,THETA)/ EXPERIMENT/ LIQUID  
N.H3 ..GAS/ MOLECULE/ EXPERIMENT/ SIGMA(E, E-PRIME)  
CZERLUNCZAKIEWICZ, KOWALSKA ACETYLENE/ AMMONIA/ METHANE ..TOTAL CROSS SECTION/ EXPERIMENT/ SOLID ..LON  
64-VA-01 VAN-DINGENEN, NEVEDE-MEVERGNIFS AMMONIA/ HYDROGEN SULFIDE ..EXPERIMENT/ GAS/ CROSS SECTION EVALUATION ..MTR-PHASE-CHOPPER  
65-ST-06 STRONG, HARKER+ AMMONIA/ METHANE ..THEORY/ CALCULATION/ CROSS SECTION/ GAS PHASE  
66-VF-03 VENKATARAMAN, RAO+ AMMONIA/ METHANE ..THEORY/ FREQUENCY DISTRIBUTION  
N.H3 ..MOLEFCULF DYNAMICS/ THEORY/ NEUTRON SPECTRUM ..20DK  
67-OK-01 OKA METHANE/ AMMONIA ..GAS/ EXPERIMENT/ NEUTRON SPECTRUM ..20DK  
67-WF-01 WFRB C.H4/ H.CL/ N.H3 ..GAS/ THEORY/ CORRELATION FUNCTION ..INCOHERENT/ INTERMEDIATE SCATTERING FU  
68-AG-01 AGRAWAL, YIP 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-02 JANIK DASANNACHARYA, THAPER+ N.H3 ..EXPERIMENT/ MOLECULAR LIQUID/ 218K/ MODEL ANALYSIS/ SIMPLE DIFFUSION/ HINDER  
72-DA-02 DASANNACHARYA, THAPER+ AMMONIA ..EXPERIMENT/ PHONON DENSITY  
72-GO-03 GOYAL, DASANNACHARYA+
4. 2 AMMONIUM AZIDE N.H4.N3  
66-HO-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 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-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-NI-02 MIKKE, KROH N.H4.CL/ N.H4.BR/ N.H4.F/ N.H4.N.O3 ..LATTICE DYNAMICS/ EXPERIMENT ..INVERTED FILTER METHOD  
63-VF-01 VENKATARAMAN, USHA+ N.H4.CL/ N.H4.BR ..EXPERIMENT  
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-RA-01 BAJOREK, MACHEKHINA+ V/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR6 ..EXPERIMENT/ ELASTIC SCA  
65-VF-01 VENKATARAMAN, DENIZ+ N.H4.CL/ N.H4.BR/ N.H4.I/ 7R-H/ TI-H ..SIGMA(E)/ EXPERIMENT/ CRYSTAL SPECTROMETER  
66-RR-02 BROFCKER N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.SN.CL6/ (N.H4)2.SN.BR6 ..EXPERIMENT/ ROTATIONAL MOD  
66-VF-04 VENKATARAMAN, DENIZ+ 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  
68-LF-03 LEUNG, TAYLOR+ N.H4.F/ N.H4.CL/ N.H4.BR/ N.H4.I/ (N.H4)2.S.O4/ (N.H4)2.SN.BR6
4. 4 AMMONIUM BROMOSTANNATE (N.H4)2.SN.BR6  
66-VF-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/ 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-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-VF-01	VENKATARAMAN, USHA+	N.H4.CL/ N.H4.BR ..EXPERIMENT
64-VF-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-VF-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-VF-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	HEXAMETHYLENETETRAMINE/ ADAMANTANE/ N.H4.CL ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS/ D
68-LE-03	LFUNG, 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-SM-01	SMITH, TRAYLOR+	N.H4.CL ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS ..TRIPLE-AXIS-SPECTROMETER
69-TE-01	TEH, BROCKHOUSE+	N.H4.CL ..EXPERIMENT/ CONST-0 METHOD/ LATTICE DYNAMICS/ DISPERSION RELATION ..DEUTERATED
71-CO-03	COWLEY	AMMONIUM CHLORIDE ..THEORY/ DISPERSION RELATION/ LATTICE DYNAMICS
71-JF-01	JEX	N.H4.CL ..THEORY/ DISPERSION RELATION
71-JE-02	JEX	N.H4.CL ..THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION FUNCTION
71-TF-01	TEH, BROCKHOUSE	AMMONIUM CHLORIDE ..EXPERIMENT/ CRYSTAL SPECTROMETER/ DISPERSION RELATION
72-KI-01	KIM, RAFIZADEH+	N.H4.CL ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ RIGID-MOLECULAR MODEL/ ORDERD PHA
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
4. 6	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-VF-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. 7	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. 8	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. 9	AMMONIUM DIHYDROGEN ORTHOPHSPHATE	N.H4.H2.P.O4
69-ME-01	MEISTER, SKALYO+	N.H4.H2.P.O4 ..EXPERIMENT/ SOLID ..QUASI-ELASTIC NEUTRON SCATTERING / TEMPERATURE DEPENDE
4. 10	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-RR-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. 11	AMMONIUM FLUORBERYLLATE	(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. 12 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 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-MI-02 MIKKE, KROH N.H4.CL/ N.H4.BR/ N.H4.F/ N.H4.N.O3 ..LATTICE DYNAMICS/ EXPERIMENT ..INVERTED FILTER METHOD  
 65-RA-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-LF-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. 13 AMMONIUM FLUOSILICATE (N.H4)2.SI.F6
- 66-SC-01 SCHLEMPER, HAMILTON (N.H4)2.SI.F6 ..EXPERIMENT/ NEUTRON SPECTROSCOPY
4. 14 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-PRIME,THETA)/ EXPERIMENT/ THE
4. 15 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. 16 AMMONIUM HYDROGEN SULFATE N.H4.H.S.O4
- 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. 17 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 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-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-PRIME,THETA)/ EXPERIMENT/ THE  
 65-RA-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-VF-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-RR-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 ..B6DK 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-LF-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-DU-01 DURIG, ANTION N.H4.I ..SOLID/ EXPERIMENT ..RAMAN SPECTRA/ FAR INFRARED SPECTRA
4. 18 AMMONIUM NITRATE N.H4.N.O3

- 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-RA-01 BAJORFK, 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/
4. 19 AMMONIUM PERCHLORATE N.H4.CL.O4  
61-RU-01 RIUSH, 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  
64-JA-01 JANIK, JANIK+ C.H4/ C.H3.I/ DIMETHYLACETYLENE/ N.H4.CL.O4/ N.H4.P.F6/ H3.O.CL.O4/ DIMETHOXYAZOXYBENZENE  
70-JA-02 JANIK, JANIK+ N.H4.CL.O4 .EXPERIMENT/ FREQUENCY SPECTRA
4. 20 AMMONIUM SULFATE (N.H4)2.S.O4  
65-RU-02 RUSH, TAYLOR K4.FE.(C.N)6/ (N.H4)2.S.O4/ N.H4.H.S.O4/ (N.H4)2.RE.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.O4/ (N.H4)2.CR2.O7/ N.H4.CL.O4 .EXPERIMENT/ TO  
70-DO-01 DOHLBORG, LARSSON+ AMMONIUM SULFATE .EXPERIMENT/ COLD NEUTRON SPECTROMETER/ FERROELECTRICITY/ PHASE TRANS  
70-KI-01 KINF, GOYAL+ (N.H4)2.S.O4 .EXPERIMENT/ SOLID/ MOLECULAR ROTATION  
71-TR-03 TRFFLER (N.H4)2.S.O4 .FAR INFRARED EXPERIMENT  
72-SA-01 SAKAMOTO, IIZUMI+ K.H.F2/ (N.H4)2.S.O4/ POLYETHYLENE .EXPERIMENT/ BE-FILTER-DETECTOR/ MOLECULAR DYNAMICS
4. 21 AMMONIUM THIOCYANATE N.H4.C.N.S  
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. 22 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. 23 ALUMINIUM NITRIDE AL.N  
67-CO-02 COLLINS, LIGHTOWLERS+ AL.N .OPTICAL EXPERIMENT
4. 24 ALUMINIUM PHOSPHATE AL.P.O4  
70-SC-03 SCOTT AL.P.O4 .ANHARMONICITY/ EXPERIMENT/ RAMAN
4. 25 ANALCITE  
64-BO-01 BOUTIN, SAFFORD+ BA.CL2/ CHABAZITE/ ANALCITE/ CU.S.O4/ APOPHYLLITE/ WATER-BERYL .EXPERIMENT/ TOF-SPECTRUM
4. 26 APOPHYLLITE  
64-BO-01 BOUTIN, SAFFORD+ BA.CL2/ CHABAZITE/ ANALCITE/ CU.S.O4/ APOPHYLLITE/ WATER-BERYL .EXPERIMENT/ TOF-SPECTRUM
4. 27 BARIUM CHLORATE BA.(CL.O3)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)/ RE.S.04  
 70-TH-01 THAPER, DASANNACHARYA+ BA.(CL.O3)2\*H2.O/ K2.C2.04\*H2.O ..EXPERIMENT/ HYDRATES/ LIBRATION OF H2.O IN HYDRAT

4. 28 BARIUM CHLORIDE BA.CL2  
 64-R0-01 BOUITIN, SAFFORD+ BA.CL2/ CHABAZITE/ ANALCITE/ CU.S.04/ APOPHYLLITE/ WATER-RERYL ..EXPERIMENT/ TOF-SPECTRUM

4. 29 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-HI-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. 30 BARIUM OXIDE BA.O  
 71-CA-01 CALTIER, MONTANER MG.O/ CA.O/ SR.O/ BA.O ..THEORY/ PHONON DISPERSION

4. 31 BARIUM TITANATE BA.TI.O3  
 61-PF-01 PELAH, LEEKOWITE BA.TI.O3 ..FERROELECTRICITY/ PARAELECTRICITY/ EXPERIMENT  
 66-SO-01 SOLOVEV, KUKHTO+ SR.TI.O3/ BA.TI.O3/ PR.TI.O3 ..EXPERIMENT/ LATTICE VIBRATION ..POLYCRYSTAL/ ROOM TEMP/ 47  
 69-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS/ BA.TI.O3/ K.H2.P.04/ NA.N.02 ..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-04 SHIRANE, AXE+ BA.TI.O3 ..EXPERIMENT/ LATTICE DYNAMICS  
 71-MA-04 HARADA, AXE+ BA.TI.O3 ..EXPERIMENT/ DISPERSION RELATION/ SOFT OPTIC PHONON/ TEMPERATURE CHANGE/ MODE INTERAC  
 71-1S-01 ISHIRASHI, 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  
 72-1S-02 ISHIRASHI BA.TI.O3/ SR.TI.O3 ..THEORY/ FORCE CONSTANT

4. 32 BERYLLIUM OXIDE BE.O  
 62-HR-04 BRUGGER BE/ BE.O/ GRAPHITE/ H2.O/ D2.O/ METHANE/ PROPANE/ TERPHENYL/ COMPILATIONS ..SCATTERING FUNCTION  
 63-SI-01 SINCLAIR RE/ RE.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-02 ANTUNEZ, BEYSTER+ BE.O/ H2.O/ D2.O/ ZR-H ..EXPERIMENT/ THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI  
 66-HF-01 BENTLE BE.O ..EXPERIMENT/ LATTICE DYNAMICS  
 66-RE-06 BFYSTER, NEILL+ H2.O/ D2.O/ ZR-H/ GRAPHITE/ BE.O ..NEUTRON SPECTRUM/ COMPILATION/ LIQUID/ GAS  
 66-HR-03 BRUGGER, STRONG+ BF.O ..EXPERIMENT/ DISPERSION RELATION/ ROTATING CRYSTAL SPECTROMETER ..ROOM TEMPERATURE  
 66-YO-01 YOUNG BE/ C/ RE.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-RR-04 BRUGGER, STRONG RE.O ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..ROOM TEMPERATURE  
 68-R0-01 BORGONOVI BE.O ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..RIGID ION

- 68-LO-01 LOM 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/ BF.O ..COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION ..AT VAR  
69-SC-02 SCHROEDER BE.O ..DEBYE-WALLER FACTOR/ FREQUENCY DISTRIBUTION/ SCATTERING LAW/ SIGMA(E)/ SIGMA(E,F-PRIME)/  
70-HE-01 HEWAT ZN.O/ BE.O ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES
4. 33 CADMIUM FLUORIDE CD.F2
- 70-DF-03 DENHAM, FIELD+ CA.F2/ SR.F2/ BA.F2/ CD.F2/ PB.F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION  
71-GO-01 GOREAU, HEURET CD.F2 ..THEORY/ PHONON DISPERSION/ PHONON SPECTRA
4. 34 CADMIUM SULFIDE CD.S
- 70-NU-01 NUSIMOVICI, BALKANSKI+ CD.S ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES/ FREQUENCY SPECTRUM ..SEMI-IONIC
4. 35 CALCITE CA.C.O3
- 71-PL-03 PLIHAL, SCHAACK CA.C.O3 ..THEORY/ PHONON DISPERSION/ SHELL MODEL
4. 36 CALCIUM FLUORIDE CA.F2
- 63-CR-01 CRIER, FARNOUX+ CA.F2 ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS  
69-VI-01 VIJAYARAGHAVAN, IYENGAR CA.F2 ..EXPERIMENT/ PHONON DISPERSION  
70-DF-03 DENHAM, FIELD+ CA.F2/ SR.F2/ BA.F2/ CD.F2/ PB.F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION  
70-FL-01 ELCOMBE, PRYOK CA.F2 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY S  
72-II-01 IIJUMI CA.F2
4. 37 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-PF-02 PFLAH, 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. 38 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/ FREQUENCIESPECTRUM ..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
4. 39 CARRUI. DIOXIDE C.O2
- 66-BA-02 BATA, KROU C.O2 ..EXPERIMENT ..NEUTRON SCATTERING/ DENSITY FLUCTUATION/ CRITICAL POINT



- 68-BA-04 BATA, KROO C.02/ C.S2 ..EXPERIMENT ..CRITICAL SCATTERING  
 68-WA-02 WALMSLEY C.02 ..THEORY/ SOLID/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION  
 71-SU-01 SUZUKI, SCHNEPP C.02 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION FUNCTION ..SPECIFIC HEAT  
 72-JA-01 JACOBI, SCHNEPP C.02/ H2/ N2 ..THEORY/ LATTICE DYNAMICS ..QUADRAPOL-QUADRAPOL POTENTIAL  
 72-PO-03 POWELL, DOLLING+ C.02 ..EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
4. 40 CALCIUM SULFATE DIHYDRATE CA.S.04\*2(H2.O)  
 69-TH-01 THAPER, SEQUEIRA+ K2.C2.0A\*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. 41 CARRON DISULFIDE C.S2  
 68-BA-04 BATA, KROO C.02/ C.S2 ..EXPERIMENT ..CRITICAL SCATTERING
4. 42 CARRON OXIDE C.O  
 68-MI-01 MIYA, 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. 43 CARRON TETRACHLORIDE C.CL4  
 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/ LIQUID  
 68-RA-05 RAO C.CL4 ..EXPERIMENT/ LIQUID/ RADIAL DISTRIBUTION  
 71-EG-01 EGGLESTAFF, PAGE+ RB/ AR/ C.CL4 ..EXPERIMENT/ TRIPLET CORRELATION FUNCTION/ THEORY
4. 44 CARRON 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/ LIQUID/ SIGMA(THETA,E)  
 68-FO-03 FOURNIER, SAVOIE+ C.F4 ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID/ SOLID ..70DK/ 125DK/ INFRA-RED/ RAMAN
4. 45 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. 46 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 WARRFN CS.CL/ MG ..GROUP THEORY/ LATTICE VIBRATION ..SYMMETRY PROPERTIES/ SPACE GROUP/ IRREDUCIBLE REP  
 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-VF-03 VETELINO, MITRA+ CS.CL/ CS.BR/ CS.I ..THEORY/ DISPERSION CURVES ..RIGID ION MODEL/ BORN-MAYER FORCE/ GRUNE  
 71-MA-02 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-04 RAM, AGRAWAL CS,CL ..THEORY/ LOCALIZED MODE/ GAP MODE/ H, D, K IMPURITY

4. 47 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-02 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,RR/ CS,I ..CALCULATION/ PHONON DISPERSION/ THREE BODY FORCE SHELL MODEL

4. 48 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 ..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,CR,O2/ H,CO,O2/ K,H,(C,CL3,C,O2)2 ..EXPERIMENT/ NEUTRON SPECTROSCO

4. 49 CESIUM HYDROSULFIDE CE,S,H

72-DE-03 DE-GRAAF, RUSH+ NA,S,H/ CE,S,H ..EXPERIMENT/ MOLECULAR ROTATION/ PHASE TRANSITION/ QUASI-ELASTIC

4. 50 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/ I,A,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  
 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 LAI, VERMA CS,CL/ CS,RR/ CS,I ..CALCULATION/ PHONON DISPERSION/ THREE BODY FORCE SHELL MODEL

4. 51 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. 52 CHABAZITE CHABAZITE

64-RO-01 ROJITIN, SAFFORD+ BA,CL2/ CHABAZITE/ ANALCITE/ CU,S,O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM

4. 53 CHROMIUM(3) ACID H,CR,O2

66-KU-02 RUSH, FERRARO H,CR,O2 ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ MOLECULAR CRYSTAL DYNAMICS ..TOF/ H,CR,O2 AND

72-GH-02 GHOSH, WADDINGTON+ NA.H.F?/ CS.H.CL2/ H.CR.02/ H.CO.02/ K.H.(C.CL3.C.O)2 ..EXPERIMENT/ NEUTRON SPECTROSCO  
 4. 54 COBALT FLUORIDE CO.F2  
 68-MA-05 MARTEL, COWLEY+ CO.F2 ..EXPERIMENT/ CONSTANT-0 METHOD/ DISPERSION RELATION ..80DK/ 4.2DK/ RIGID ION MODEL  
 4. 55 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. 56 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 FORC SHELL MODEL  
 4. 57 COBALT(3) ACID H.CO.O2  
 72-GH-02 GHOSH, WADDINGTON+ NA.H.F?/ CS.H.CL2/ H.CR.02/ H.CO.02/ K.H.(C.CL3.C.O)2 ..EXPERIMENT/ NEUTRON SPECTROSCO  
 4. 58 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. 59 COPPER IODIDE CU.I  
 72-HF-02 HENNION, MOUSSA CU.I ..EXPERIMENT/ DISPERSION RELATION/ RIGID ION MODEL/ FREQUENCY DISTRIBUTION/ ELASTIC C  
 4. 60 COPPER SULFATE CU.S.O4  
 64-BO-01 ROUTIN, SAFFORD+ BA.CL2/ CHABAZITE/ ANALCITE/ CU.S.O4/ APOPHYLLITE/ WATER-BERYL ..EXPERIMENT/ TOF-SPECTRUM  
 4. 61 CRISTOBALITE SI.O2  
 69-LE-01 LEADBETTER SILICA/ QUARTZ/ CRISTOBALITE ..EXPERIMENT/ COLLECTIVE VIBRATION/ AMORPHOUS SOLID ..TOF/ SILICA/  
 72-LF-02 LFADRETTER, STRINGFELLOW SI.O2 ..EXPERIMENT/ VITREOUS SILICA/ ALPHA QUARTZ/ PHONON SPECTRA  
 4. 62 CUPROUS CHLORIDE CU.CL  
 71-CA-02 CARABATOS, HENNION+ CU.CL ..EXPERIMENT/ PHONON DISPERSION CURVES/ ROOM TEMP.  
 4. 63 DICARBON HEXAFLUORIDE C2.F6

- 67-CA-02 CARPENTER C2.F6/ RR2 ..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. 64 DYSPROSIUM VANADATE DY.V.04  
 72-ME-01 MELCHER, SCOTT DY.V.04 ..EXPERIMENT/ FLASTIC CONSTANT/ SOFT MODE/ MEAN FIELD THEORY/ CRITICAL FLUCTUATION
4. 65 GALLIUM ARSENIDE GA.AS  
 63-WA-01 WAUGH, DOLLING GA.AS ..EXPERIMENT/ DISPERSION RELATION  
 65-DO-03 DOLLING, WAUGH GA.AS ..EXPERIMENT/ DISPERSION RELATION
4. 66 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-RA-05 BANERJEE, VARSHNI ZN.S/ GA.P/ SI.C ..THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMPERATURE
4. 67 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
4. 68 HEAVY WATER D2.O  
 55-JA-01 JACROT, NETTER+ GRAPHITE/ H2.O/ D2.O ..EXPERIMENT/ LIQUID/ SOLID  
 58-RR-02 BROCKHOUSE H2.O/ D2.O ..EXPERIMENT  
 59-RR-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-FG-01 EGFLSTAFF, COCKING+ H2.O/ D2.O/ PR ..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/ COMPILATIONS ..SCATTERING FUNCTION  
 62-FG-01 EGFLSTAFF GRAPHITE/ H2.O/ D2.O/ COMPILATIONS ..SCATTERING LAW ..24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR  
 62-FG-04 EGFLSTAFF 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 HONFCK 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-RU-02 BUTLER D2.O ..LIQUID/ THEORY/ SCATTERING LAW  
 63-GI-01 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, GROSSHOOE+	H2.O/ D2.O	LIQUID/ EXPERIMENT/ SCATTERING LAW	
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-MA-01	MATEESCU, 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	STFHN, GOLDRERG+	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	
65-RE-01	BFYSTER, KOPPEL	D2.O/ H2.O/ POLYETHYLENE/ BE	THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION	
65-RF-07	BFYSTER, 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	KORNBLICHLER	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-02	ANTUNEZ, BEYSTER+	RE.O/ H2.O/ D2.O/ ZR-H	EXPERIMENT/ THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI	
66-RF-06	BFYSTER, NEILL+	H2.O/ D2.O/ ZR-H/ GRAPHITE/ BE.O	NEUTRON SPECTRUM/ COMPILATION/ 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/ RE.O	INCOHERENT APPROXIMATION/ MULTIPLE SCATT	
67-KA-01	KADOTANI, IJIMA	D2.O	THEORY/ PHONON SPECTRUM/ SCATTERING FUNCTION/ 295, 4230K	
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/ RE/ 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	2299DK/ 268DK
68-HA-06	HAYWOOD, PAGE	H2.O/ D2.O	EXPERIMENT/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION	
68-PA-01	PAGE, HAYWOOD	H2.O/ D2.O/ GRAPHITE/ BE/ BF.O	COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION	AT VAR
68-PA-03	PAGE	H2.O/ D2.O	EXPERIMENT/ SCATTERING FUNCTION/ COMPILATION	MIXTURE OF H2.O AND D2.O/ 0-0.13EV
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-RU-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-RF-07	RENKAR	D2.O	EXPERIMENT/ ICE/ HEXAGONAL/ PHONON DISPERSION	
71-RF-03	RENKAR	D2.O	LATTICE DYNAMICS/ SOLID/ THEORY/ EXPERIMENT/ BORN-VON KARMAN MODEL/ DISPERSION RELATION/	
72-LF-03	LEF, JONAS	D2.O	VISCOSITY/ DENSITY	
72-NA-05	NARTFN	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. 69	HEXAMMINECOBALT IODIDE	CO.(NH3)6.I2		
69-JA-02	JANIK, JAKOB+	CO.(NH3)6.I2/ NI.(NH3)6.I2	EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION	
4. 70	HEXAMMINE-NICKEL IODIDE	NI.(NH3)6.I2		

- 69-JA-02 JANIK, JAKOB+ CO.(N.H3)6.12/ NI.(N.H3)6.12 ..EXPERIMENT/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION
4. 71 HYDROGEN BROMIDE H•BR  
 65-RO-03 BOUTIN, SAFFORD H•F/ H•CL/ H•BR ..EXPERIMENT/ LATTICE VIBRATION/ TOF SPECTRUM
4. 72 HYDROGEN CHLORIDE H•CL  
 65-RO-03 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-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  
 68-TR-02 TRIVINO, 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-06 NISHIGORI, SEKIYA NEUTRON-SCATTERING-IN-FLUIDS/ H•CL ..THEORY/ SCATTERING SIGMA/ GAS
4. 73 HYDROGEN CYANIDE H•C•N  
 72-RA-01 RAF H•C•N ..CALCULATION/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ PHASE CHANGE/ SOFT PHONON
4. 74 HYDROGEN FLUORIDE H•F  
 63-RO-02 BOUTIN, SAFFORD H•F/ K•H•F2/ K•H2•F3/ NA•H2•F3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS  
 65-RO-03 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. 75 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-06 STRONG, HARKER+ AMMONIA/ HYDROGEN SULFIDE ..EXPERIMENT/ GAS/ CROSS SECTION EVALUATION ..MTR-PHASE-CHOPPER
4. 76 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. 77 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. 78 IRON HYDROGEN CARBONYL H<sub>2</sub>FE.(C.O)4
- 72-WH-03 WHITE, WRIGHT H.CO.(C.O)4/ H<sub>2</sub>FE.(C.O)4/ H.MN.(C.O)5/ K.H.FE.(C.O)4/ H<sub>3</sub>MN<sub>3</sub>(C.O)12/ CS.H.FE<sub>3</sub>(C.O)11 ..EX
4. 79 IRON FLUORIDE FE.F2
- 72-RA-03 RAINFORD, HOUMANN+ FE.F2 ..EXPERIMENT/ PHONON AND MAGNON DISPERSION/ MAGNON-PHONON INTERACTION
4. 80 LANTHANUM ALUMINATE LA.AL.O3
- 69-AX-01 AXE, SHIRANE+ LA.AL.O3 ..EXPERIMENT/ PHONON DISPERSION/ PHASE TRANSITION/ PHONON INSTABILITY
4. 81 LANTHANUM CHLORIDE LA.CL3
- 65-CA-01 CASPERS, MURPHY+ LA.CL3 ..LATTICE DYNAMICS
- 69-SA-03 SAFFORD, LEUNG+ H<sub>2</sub>O/ LA.CL3/ CS.I/ CS.CL/ K.I/ K.BR/ K.CL/ NA.CL ..EXPERIMENT/ TOF SPECTRA/ INTERMOLECULA
4. 82 LANTHANUM TRIFLUORIDE LA.F3
- 68-RA-06 RAST, CASPERS+ LA.F3 ..EXPERIMENT ..9,2DK/ 77DK/ 373DK/ INFRARED REFLECTION/ KRAMERS-KRONIG METHOD
4. 83 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. 84 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. 85 LEAD SULFIDE PB.S
- 67-EL-02 ELCOMBE PB.S ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ MODEL FITTING/ FREQUENCY SPECTRUM
4. 86 LEAD TELLURIDE PB.TE
- 66-CO-01 COCHRAN, COWLEY+ PB.TE ..EXPERIMENT/ MODEL CALCULATION/ PHONON DISPERSION/ FREQUENCY SPECTRA/ SPECIFIC HEAT
- 72-AL-04 ALPENIN, PITCANT+ PB.TE ..EXPERIMENT/ DISPERSION RELATION/ SOFT PHONON/ CURIE LAW/ TEMPERATURE CHANGE
4. 87 LEAD ZIRCONATE PB.ZR.O3

70-7F-01 ZEIN, ZINENKO+ SR, TI, O3/ PB, ZR, O3 • THEORY/ LATTICE DYNAMICS/ FERROELECTRICITY/ PHASE TRANSITION

4. 88 LIGHT WATER

H2.0

40-DA-01 DARLING, DENNISON H2.0 • THEORY/ MOLECULAR DYNAMICS  
 41-SA-01 SACHS, TELLER NEUTRON-SCATTERING-IN-FLUIDS/ H2/ C, H4/ N, H3/ H2.0 • SCATTERING THEORY • MOLECULAR GASES  
 54-FO-01 FÖRSLIND H2.0 • THEORY/ SOLID/ BORN-VON KARMAN MODEL/ CENTRAL FORCE MODEL/ DISPERSION RELATION/ HARMONIC GRAPHITE/ H2.0/ D2.0 • EXPERIMENT/ LIQUID/ SOLID  
 55-JA-01 JACROT, NETTER+ NEUTRON-SCATTERING-IN-FLUIDS/ C, H2/ H2.0 • SCATTERING THEORY • MOLECULE  
 57-KR-01 KRIEGER, NELKIN BROCKHOUSE H2.0/ D2.0 • EXPERIMENT  
 58-RR-02 BROCKHOUSE H2.0/ POLYETHYLENE/ ZR-H/ MG-H/ GRAPHITE • EXPERIMENT/ THEORY/ LIQUID/ SOLID  
 58-MC-01 MCFRYNOLS, NELKIN+ H2.0/ D2.0 • SCATTERING LAW/ EXPERIMENT • QUASI ELASTIC SCATTERING/ ICE, 6DC, 24.5DC, 42DC, 60D  
 59-RR-04 BROCKHOUSE H2.0 • LIQUID/ EXPERIMENT • RE-FILTER-TOF  
 59-HU-01 HUGHES, PALEVSKY+ H2.0 • EXPERIMENT/ LIQUID/ DISPERSION RELATION/ DIFFUSION PARAMETER  
 60-CR-01 CRIBIER, JACROT H2.0 • SIGMA(E, F-PRIME, THETA)  
 60-HU-01 HUGHES, PALEVSKY+ H2.0 • THEORY/ ELASTIC SCATTERING CROSS SECTION • RIGID ASYMMETRIC ROTOR MODEL  
 60-KH-01 KHURCHANDARI, RAHMAN H2.0/ D2.0 • EXPERIMENT/ FREQUENCY DISTRIBUTION • LIQUID DYNAMICS  
 60-LA-01 LARSSON, HOLMRYD+ NEUTRON-SCATTERING-IN-FLUIDS/ H2.0 • THEORY/ MOLECULAR DYNAMICS • DIFFERENTIAL AND TOTAL CROSS  
 60-NF-02 NETKIN SINGWI, SJOELANDER H2.0 • THEORY/ MOLECULAR DYNAMICS • LIQUID DYNAMICS/ QUASI-CRYSTALLINE MODEL  
 60-ST-01 BRUGGER ZR-H/ H2.0/ BENZENE/ PARAFFINE/ ALCOHOL • SIGMA(E, E-PRIME, THETA)/ EXPERIMENT/ LIQUIDS/ TOF  
 61-BR-03 CRIBIER, JACROT H2.0 • EXPERIMENT • QUASI ELASTIC SCATTERING/ 27DC/ 43DC  
 61-FG-01 EGELSTAFF, COCKING+ H2.0/ D2.0/ PB • EXPERIMENT/ LIQUID/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION  
 61-HF-01 HEINLOTH, SPRINGER H2.0 • SIGMA(E)/ EXPERIMENT • -150DC → 200DC  
 61-HE-02 HEINLOTH, SPRINGER H2.0/ C6, H6/ C, H2.0/ 2 • SIGMA(E)/ EXPERIMENT/ GAS/ LIQUID/ SOLID/ KRIEGER-NELKIN MODEL • TRANSMI  
 61-LA-01 LARSSON, HOLMRYD+ H2.0/ D2.0 • EXPERIMENT  
 61-MI-01 MIKKE H2.0/ D2.0 • EXPERIMENT  
 61-PA-01 PALEVSKY H2.0/ PB/ SN • EXPERIMENT/ LIQUID • ROOM TEMP. • 45DC FOR H2.0/ 462DC FOR PB/ 350DC FOR SN/ BE-F  
 61-SP-01 SPRINGER H2.0 • THEORY/ EXPERIMENT/ SOLID/ LIQUID/ GAS/ SIGMA(E)/ SIGMA(THETA)/ FREQUENCY SPECTRUM  
 61-SP-02 SPRINGER, WIEDMAN H2.0 • FXPERIMENT/ SIGMA(E) • ICE  
 61-ST-01 STILLER, DANNER H2.0 • EXPERIMENT/ SIGMA(THETA, E)  
 61-WH-01 WHITTEMORE, MCREYNOLDS H2.0/ D2.0 • EXPERIMENT  
 61-WO-01 WOODS, BROCKHOUSE+ GRAPHITE/ H2.0/ D2.0/ ZR-H/ LI, H/ NA, H/ N, H4, CL • EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE  
 62-RR-02 BRUGGER BE/ RE.0/ GRAPHITE/ H2.0/ D2.0/ PROPANE • THEORY/ EXPERIMENT/ SCATTERING FUNCTION  
 62-BR-04 BRUGGER METHANE/ H2.0/ D2.0/ PROPANE • THEORY/ EXPERIMENT/ SCATTERING FUNCTION  
 62-FG-01 EGELSTAFF NEUTRON-SCATTERING-IN-FLUIDS/ H2.0 • THEORY/ LIQUID • LIQUID DYNAMICS  
 62-FG-02 EGELSTAFF GRAPHITE/ H2.0/ D2.0/ COMPILATIONS • SCATTERING LAW • 24DC, 380DC, 600DC FOR GRAPHITE/ 24DC FOR  
 62-EG-03 EGELSTAFF, SCHOFIELD SCATTERING-THEORIES/ H2.0/ PB • EXPERIMENT/ THEORY/ LIQUID/ DIFFUSION PARAMETER • ROO  
 62-EG-04 EGELSTAFF H2.0/ D2.0/ GRAPHITE/ BE • SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ THEORY • EVALUATION  
 62-GO-01 GOFSSMAN H2.0 • THEORY/ CROSS SECTION EVALUATION  
 62-HA-01 HAYWOOD, THORSON D2.0/ H2.0 • EXPERIMENT/ SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION • 20DC/ 150DC  
 62-LA-01 LARSSON, DAHLBORG H2.0/ D2.0 • EXPERIMENT/ LIQUID DYNAMICS • 10DC TO 95DC  
 62-LA-02 LARSSON, SINGWI H2.0 • LIQUID/ DIFFUSIVE MOTION/ THEORY  
 62-LI-02 LINDENMETER H2.0 • THEORY/ CROSS SECTION EVALUATION  
 62-NE-01 NEMETHY, SCHRAGA H2.0 • THEORY/ MOLECULAR DYNAMICS • LIQUID DYNAMICS  
 62-RO-01 ROSENBAUM, ZWEIFEL H2.0 • THEORY • DIFFERENTIAL SCATTERING CROSS SECTION/ 295DK  
 62-SA-01 SAKAMOTO, BROCKHOUSE+ H2.0 • EXPERIMENT/ LIQUID/ SCATTERING FUNCTION • 25DC/ 75DC/ QUASI-ELASTIC SCATTERIN  
 62-SC-02 SCHOFIELD H2.0/ GRAPHITE • THEORY/ COMPILATION  
 63-RA-01 BAJORIK, GOLIKOV+ SN/ H2.0/ AR/ HE • EXPERIMENT/ LIQUID  
 63-RR-02 BROCKHOUSE, BERGSMAN+ H2.0 • EXPERIMENT • 150DC, 295DK, 425DK  
 63-FG-01 EGELSTAFF, HAYWOOD+



63-GO-02 GOLDMAN, FEDERIGHI H2.0/ POLYETHYLENE ..CROSS SECTION EVALUATION  
63-JA-02 JANIK, JANIK+ C.H4/ N.H3/ H2.S/ H2.0 ..SIGMA(E)/ EXPERIMENT/ LIQUID  
63-KO-02 KOTTWITZ, LEONARD-JR+ H2.0 ..EXPERIMENT/ LIQUIDS ..22DC  
63-KO-03 KOTTWITZ, LEONARD-JR H2.0 ..EXPERIMENT/ FREQUENCY DISTRIBUTION  
63-LA-01 LARSSON, DAHLBORG D2.0/ GLYCELINE/ H2.0 ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION/ TOF ..278. 295. 368.  
63-LI-01 LINDENMIER, MATSUMOTO+ H2.0/ POLYETHYLENE/ COMPUTER-CODES ..SCATTERING THEORY/ LIQUID/ SIGMA(E-PRIME)/ TH  
63-SI-03 SINGWI, SJOELANDER+ NEUTRON-SCATTERING-IN-FLUIDS/ H2.0/ PB ..THEORY/ LIQUID/ FREQUENCY DISTRIBUTION/ SCATT  
63-YI-01 YIP, OSBORN H2.0 ..THEORY/ MOLECULAR DYNAMICS/ SIGMA(E-E-PRIME,THETA)  
63-YI-02 YIP, OSBORN H2.0 ..THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..SMALL ENERGY TRANSFER REGION  
64-RO-02 BOUTIN, PRASK H2.0/ WATER-SILICA/ WATER-ALUMINA/ AL.CL3 ..EXPERIMENT/ MOLECULAR DYNAMICS ..H2.0 VAPOR ADSO  
64-DA-01 DAHLBORG, GROSSHOE+ H2.0/ D2.0  
64-KO-02 KOPPEL, YOUNG H2.0 ..THEORY/ MOLECULAR DYNAMICS ..SCATTERING KERNEL/ ANISOTROPIC MODEL  
64-LA-01 LARSSON, DAHLBORG H2.0/ D2.0/ PENTANE/ GLYCELINE ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION  
64-MC-01 MCMURRY, GANNON COMPUTER-CODES/ H2.0 ..THEORY/ SCATTERING LAW/ SIGMA(E)/ SIGMA(E-E-PRIME)/ SIGMA-TRANSPORT  
64-MO-01 MOSTOVOY, DIKAREV+ H2.0/ RIPHENYL ..FREQUENCY SPECTRUM/ EXPERIMENT  
64-PA-01 PAGE H2.0 ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION ..550DK/ 1200 PSI  
64-SP-01 SPRINGER, HOFMYER+ H2.0/ D2.0/ PHENYL/ ZR-H ..EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER ..AVE-MU  
64-ST-01 STFHN, GOLDBERG+ H/ D/ H2.0/ D2.0/ HE/ LI/ BE/ GRAPHITE/ N/ O/ NE/ NA/ MG/ AL/ SI/ AR/ K/ COMPILATIONS ..S  
64-TE-01 TEUTSCH, MATEESCU+ H2.0/ D2.0 ..LIQUID/ EXPERIMENT/ NEUTRON SCATTERING  
64-YO-03 YOUNG, HUFFMAN H2.0 ..EXPERIMENT/ LIQUID/ NEUTRON SPECTRUM/ THEORY  
65-RE-01 REYSTER, KOPPEL D2.0/ H2.0/ POLYETHYLENE/ BE ..THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION  
65-BE-02 REYSTER, YOUNG+ H2.0/ D2.0/ ZR-H ..EXPERIMENT/ DIFFUSION PARAMETER ..AVE-MU  
65-RO-04 ROUTIN, PRASK+ H2.0 ..TOF  
65-GL-03 GLAESER, EHRET+ C6.H6/ H2.0/ ZR-H ..SCATTERING LAW/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID ..20DC FOR  
65-GO-01 GOLIKOV, ZHOKORSKAJ+ C2.H6.O2/ H2.0/ C2.H4.O2/ C6.H6 ..EXPERIMENT/ LIQUID/ SOLID  
65-JA-01 JANIK H2.0 ..SOLID/ LIQUID/ FREQUENCY DISTRIBUTION/ SIGMA(E-PRIME,THETA)  
65-LE-02 LFMMEL H2.0 ..EXPERIMENT/ LIQUID/ DISPERSION PARAMETER/ SIGMA(THETA,E)  
65-PA-01 PALEVSKY PB/ H2.0/ SN ..EXPERIMENT/ LIQUID  
65-PO-01 POPE, NATION H2.0 ..SCATTERING LAW/ CORRELATION FUNCTION  
65-TU-01 TURCHIN H2.0 ..LIQUID/ SOLID/ SCATTERING LAW/ FREQUENCY DISTRIBUTION NG LAW/ FREQUENCY DISTRIBUTION  
65-YO-01 YOUNG, KOPPEL HE/ C/ H2.0/ D2.0/ C.H2/ H2/ D2 ..THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATION  
66-AN-02 ANTUNEZ, BEYSTER+ BE.O/ H2.0/ D2.0/ ZR-H ..EXPERIMENT/ THEORY/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI  
66-RE-05 REYSTER, CARRIVFAN H2.0 ..LIQUID/ THEORY/ EXPERIMENT/ SIGMA (THETA,E) ..MULTIPLE SCATTERING CORRECTION  
66-RE-06 BEYSTER, NEILL+ H2.0/ D2.0/ ZR-H/ GRAPHITE/ BE.O ..NEUTRON SPECTRUM/ COMPILATION/ LIQUID/ GAS  
66-HA-02 HARLING H2.0 ..EXPERIMENT/ SIGMA (E-E-PRIME,THETA)/ LIQUID  
66-KI-01 KIROUAC, MOORE+ H2.0 ..LIQUID/ EXPERIMENT/ SCATTERING LAW ..ROOM TEMP.  
66-KI-02 KIROUAC, MOORE+ H2.0/ POLYETHYLENE ..EXPERIMENT/ DOUBLE DIFFERENTIAL CROSS SECTION  
66-KO-01 KOPPEL H2.0 ..SCATTERING LAW/ SIGMA (E-E-PRIME,THETA)/ EXPERIMENT ..300DK  
66-KO-04 KOPPEL POLYETHYLENE/ ZR-H/ H2.0 ..SCATTERING FUNCTION/ SCATTERING CROSS SECTION/ NEUTRON SPECTRUM  
66-MC-01 MCMURRY, RUSSELL+ H2.0/ POLYETHYLENE/ ZR-H/ H ..CROSS SECTION EVALUATION/ SCATTERING FUNCTION/ THEORY/ LIQUID/ SO  
66-MC-03 MCMURRY H2.0 ..THEORY/ LIQUID/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION/ SIGMA(E)/ SCATTERING LAW ..4  
66-PR-01 PRASK, ROUTIN H2.0 ..EXPERIMENT/ MOLECULAR DYNAMICS/ DIFFERENTIAL CROSS SECTION ..H2.0 MOLECULES IN CRYSTA  
66-SZ-01 SZKATULA, FULINSKI H2.0 ..LIQUID/ MOLECULAR DYNAMICS  
66-WO-01 WORDEN, PURCELL+ H2.0/ D2.0/ GRAPHITE ..NEUTRON SPECTRUM/ SIGMA(E-E-PRIME)  
67-HI-01 BIRSCHOFF, BRYANT+ POLYETHYLENE/ H2.0/ ZR-H/ NB-H/ U.O2 ..EXPERIMENT  
67-GL-01 GLAESER REVIEW-ARTICLES/ H2.0/ ZR-H/ GRAPHITE/ D2.0/ BE/ BE.O ..INCOHERENT APPROXIMATION/ MULTIPLE SCATT  
67-GO-01 GOJAND, OTNES H2.0 ..EXPERIMENT/ LIQUID ..QUASI-ELASTIC SCATTERING  
67-HA-03 HAYWOOD H2.0 ..CROSS SECTION EVALUATION/ LIQUID/ THEORY/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION/ S  
67-IR-01 IBARRA-JR, SHER H2.0 ..EXPERIMENT/ NEUTRON SPECTRUM ..20DC  
67-KI-01 KIROUAC H2.0 ..LIQUID/ SCATTERING FUNCTION  
67-MC-01 MCMURRY H2.0/ D2.0 ..SIGMA(E-E-PRIME)/ COMPILATION

67-NA-01 NAKAHARA, KATO RE/ H2.O/ COMPUTER-CODES \*\*SOLID/ THEORY/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION  
 67-SA-02 SAMOSVAT, SAYASOV+ H2.O \*\*EXPERIMENT  
 67-SK-01 SKOELD, KARLEN+ PENTANE/ H2.O \*\*MOLECULAR DYNAMICS/ SOLID/ EXPERIMENT/ FREQUENCY SPECTRUM  
 67-SM-02 SMITH H2.O \*\*EXPERIMENT/ SCATTERING FUNCTION \*\*95DC/ TRIPLE AXIS SPECTROMETER  
 67-SZ-01 SZKATULA, FULINSKI H2.O \*\*THEORY/ LIQUID/ FREQUENCY DISTRIBUTION  
 68-AR-03 ARRENTE, GALLS H2.O \*\*SIGMA (E)/ NEUTRON SPECTRUM/ THEORY \*\*MODIFIED NELKIN MODEL  
 68-BA-02 BAJOREK, JANIK+ H2.O \*\*EXPERIMENT/ MOLECULAR DYNAMICS \*\*WATER IN CRYSTAL  
 68-BE-02 BEYSER H2.O \*\*LIQUID/ EXPERIMENT  
 68-BR-02 BRUGGER, PLUMMER H2.O \*\*SCATTERING FUNCTION/ EXPERIMENT/ LIQUID \*\*TOF/ 16DC  
 68-RR-03 BURGMAN, SCIESINSKI+ H2.O \*\*EXPERIMENT/ SCATTERING FUNCTION  
 68-RU-02 DAUBERT, JEX+ H2.O \*\*SOLID/ LIQUID/ EXPERIMENT/ FREQUENCY DISTRIBUTION \*\*COLD NEUTRON TOF/ 273.4DK/  
 68-DA-05 ESCH, MOORE+ H2.O \*\*LIQUID/ EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION  
 68-FS-01 FAURE, KAHANE H2.O \*\*FREQUENCY DISTRIBUTION/ DISPERSION RELATION/ LATTICE DYNAMICS/ THEORY/ SOLID  
 68-FA-01 GIRBS, LINDEMETER H2.O \*\*SCATTERING THEORY/ LIQUID  
 68-GI-01 GLAESER H2.O/ ZR-H/ GRAPHITE/ D2.O/ BE/ BE.O \*\*COMPILATION/ SCATTERING FUNCTION/ CROSS SECTION EVALUATI  
 68-GL-01 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.O \*\*SCATTERING FUNCTION/ EXPERIMENT \*\*300DK  
 68-NA-01 NAKAHARA H2.O \*\*FREQUENCY DISTRIBUTION/ THEORY/ SOLID/ LATTICE DYNAMICS  
 68-NE-01 NEIL, RUSSEL-JR+ H2.O \*\*EXPERIMENT/ LIQUID/ TOTAL CROSS SECTION \*\*23DC/ LINAC  
 68-PA-01 PAGE, HAYWOOD H2.O/ D2.O/ GRAPHITE/ BE/ BE.O \*\*COMPILATION/ LIQUID/ SOLID/ FREQUENCY DISTRIBUTION \*\*AT VAR  
 68-PA-03 PAGE H2.O/ D2.O \*\*EXPERIMENT/ SCATTERING FUNCTION/ COMPILATION \*\*MIXTURE OF H2.O AND D2.O/ 0-0.13EV/  
 68-PA-05 PARKS, PELLARIN+ H2.O/ D2.O \*\*EXPERIMENT/ DIFFUSION PARAMETER  
 68-PR-01 PRASK, BOUTIN+ H2.O \*\*SOLID/ EXPERIMENT/ THEORY/ FREQUENCY DISTRIBUTION \*\*COLD NEUTRON TOF/ 150DK  
 68-RO-01 ROSS, SZABO+ BENZENE/ H2.O \*\*SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID \*\*20DC FOR BE  
 68-SA-03 SAMOSVAT, SAYASOV+ H2.O \*\*EXPERIMENT/ MOLECULAR DYNAMICS/ TOF \*\*RESONANT-DETECTOR METHOD  
 68-SL-02 SLAGGIE H2.O/ ZR-H \*\*THEORY/ CROSS SECTION EVALUATION  
 68-TR-02 TRFVINO, PRASK+ H2.O/ H.CL \*\*THEORY/ LATTICE DYNAMICS \*\*HARMONIC SOLIDS  
 69-FS-01 ESCH, YFATER+ H2.O \*\*EXPERIMENT/ DOUBLE DIFFERENTIAL SCATTERING CROSS SECTION/ 27.170,270DC/ LINAC TOF  
 69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEXANE/ METHANOL/ ACETONE/ ACETIC  
 69-HA-04 HARLING H2.O \*\*SCATTERING LAW/ FREQUENCY DISTRIBUTION  
 69-KO-01 KOSALY, VALKO H2.O \*\*THEORY/ CROSS SECTION EVALUATION  
 69-RF-01 REICHEL, MAIER H2.O \*\*CALCULATION/ SINGLE DIFFERENTIAL CROSS SECTION  
 69-SA-02 SAFFORD, LEUNG+ H2.O \*\*IN IONIC SOLUTION/ EXPERIMENT/ TOF SPECTRUM \*\*ION-WATER INTERACTION  
 69-SA-03 SAFFORD, LEUNG+ H2.O/ LA.CL3/ CS.I/ CS.CL/ K.O.I/ K.BR/ K.CL/ NA.CL \*\*EXPERIMENT/ TOF SPECTRA/ INTERMOLECULA  
 69-SH-04 SHAWYER, DEAN H2.O \*\*THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA  
 70-RA-04 BATES, LIPPINCOTT+ H2.O \*\*MOLECULAR VIBRATIONS  
 70-RU-02 BUTLAND, CHUDLEY H2.O \*\*INTEGRAL DATA/ NEUTRON DIFFUSION COEFFICIENT/ TOTAL SIGMA/ EFFECTIVE WIDTH MODEL/  
 70-CL-01 CLIFFORD H2.O \*\*SCATTERING LAW / LIQUID  
 71-BI-02 BISCHOFF, MOORE+ SCATTERING-THEORIES/ COMPUTER-CODES/ H2.O \*\*MULTIPLE SCATTERING/ THEORY/ SIGMA(E, E-PRIME  
 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-FS-01 ESCH, YEATER+ H2.O \*\*EXPERIMENT/ DIFFERENTIAL CROSS SECTION/ 27.170, 270C/ LINAC  
 71-GO-02 GOTOH, TAKAHASHI H2.O/ D2.O \*\*FREQUENCY DISTRIBUTION/ SCATTERING LAW  
 71-RA-01 RAHMAN, STILLINGER H2.O \*\*COMPUTER SIMULATION/ CORRELATION FUNCTION/ SELF-DIFFUSION/ FREQUENCY SPECTRA  
 72-RU-03 BUTLAND, CHUDLEY H2.O \*\*SCATTERING MODEL CALCULATION/ INTEGRAL PARAMETER  
 72-CH-01 CHAY, FRANK H2.O/ THEORY-OF-FLUIDS \*\*CORRELATION FUNCTION

- 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. 89 LITHIUM CHLORIDE LI.CL  
 71-VF-01 VERMA, SINGH LI.H/ LI.F/ LI.CL ..THEORY/ PHONON DISPERSION/ STATE DENSITY
4. 90 LITHIUM FLUORIDE LI.F  
 68-DO-01 DOLLING, SMITH+ LI.F ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..3-AXIS  
 71-VF-01 VERMA, SINGH LI.H/ LI.F/ LI.CL ..THEORY/ PHONON DISPERSION/ STATE DENSITY  
 72-RA-07 BASU, SENGUPTA LI.F ..CALCULATION/ DEFORMABLE SHELL MODEL/ PHONON DISPERSION/ STATE DENSITY/ ELASTIC CONST
4. 91 LITHIUM HYDRIDE LI.H  
 61-WO-01 WOODS, BROCKHOISE+ GRAPHITE/ H2.O/ D2.O/ ZR-H/ LI.H/ NA.H/ N.H4.CL ..EXPERIMENT/ CRYSTAL SPECTROMETER/ FRE  
 65-HR-01 BRODSKY, BURSTEIN LI.H ..THEORY/ SOLID/ LATTICE DYNAMICS  
 65-7E-01 ZEMLYANOV, BROVMAN+ LI.H ..THEORY/ BORN VON KARMAN MODEL/ SIGMA(E-E-PRIME, THETA)  
 67-VF-02 VERBLE LI.H ..LATTICE DYNAMICS/ EXPERIMENT/ DISPERSION RELATION ..CONST..@/ ROOM TEMP./ LI-O CRYSTAL  
 68-NF-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-O/ MODEL ANALYSIS/ FREQUENCY SPECTRUM  
 71-VE-01 VERMA, SINGH LI.H/ LI.F/ LI.CL ..THEORY/ PHONON DISPERSION/ STATE DENSITY  
 72-SI-06 SINGH LI.H ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION
4. 92 LITHIUM HYDROXIDE LI.O.H  
 65-PE-02 PELAH, KREBS+ CA.(O.H)2/ LI.O.H ..EXPERIMENT/ LATTICE DYNAMICS ..TOF  
 66-SA-02 SAFFORD, LOSACCO LI.O.H ..EXPERIMENT/ TOF SPECTRUM/ MOLECULAR DYNAMICS
4. 93 LITHIUM NIOBATE LI.NB.O3  
 71-DE-05 DEVINE, PECKHAM LI.NB.O3 ..THEORY/ GROUP THEORY/ INELASTIC NEUTRON SCATTERING
4. 94 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.H2.O/ CU.CL2.H2.O/ BE.S.O4  
 72-MI-01 MIKULI, JANIK+ LI2.S.O4.H2.O ..EXPERIMENT/ FREQUENCY SPECTRUM
4. 95 LITHIUM SULFATE LI2.S.O4.H2.O  
 68-JA-02 JANIK C.H4/ H2.O/ N.H3/ LI2.S.O4.H2.O/ H3.O.N.O3/ C.H3.O1 ..EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR

4. 96 LITHIUM YTTRIUM TETRAFLUORIDE LI.Y.F4  
 70-MI-01 MILLER, RAST+ LI.Y.F4 ..EXPERIMENT ..RAMAN SCATTERING
4. 97 MAGNESIUM DIFLUORIDE MG.F2  
 68-KA-02 KAHN, TROTIN+ MG.F2 ..EXPERIMENT/ 3-AXIS SPECTROMETER/ LATTICE DYNAMICS/ DISPERSION RELATION  
 70-KA-04 KATIYAR MG.F2 ..THEORY/ LATTICE DYNAMICS
4. 98 MAGNESIUM HYDROXIDE MG.(O.H)2  
 63-SA-01 SAFFORD, BRAJUVIC+ 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
4. 99 MAGNESIUM LEAD MG2.PB  
 72-WA-02 WAKABAYASHI, AHMAD+ MG2.PB ..EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ FREQUENCY SPECTRA
- 4.100 MAGNESIUM OXIDE MG.O  
 65-PE-01 PECKHAM MG.O ..LATTICE DYNAMICS  
 67-BU-01 RUCKLAND, SAUNDERSON MG.O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION 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/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..ROOM  
 67-RI-01 RIEDER, HOERL MG.O ..EXPERIMENT/ SOLID/ LATTICE DYNAMICS ..SURFACE VIBRATION  
 68-RO-03 BORGONOVII, CARRIVEAU MG.O ..EXPERIMENT/ ANGULAR DISTRIBUTION/ SHELL MODEL CALCULATION  
 68-MA-08 MARTIN MG.O ..EXPERIMENT/ THEORY/ SOLID ..DEFECT SCATTERING  
 70-SA-01 SARINF, SVENSON MG.O ..EXPERIMENT/ TOTAL SCATTERING SIGMA ..DEFECT CLUSTER SCATTERING  
 70-SA-04 SANGSTER, PECKHAM+ MG.O ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES ..BREATHING SHELL MODEL/ FREQUEN  
 71-CA-01 CATTIER, MONTANER MG.O/ CA.O/ SR.O/ BA.O ..THEORY/ PHONON DISPERSION  
 71-GI-02 GILLIS MG.O ..THEORY/ LATTICE VIBRATION  
 72-SI-05 SINGH, UPADHYAYA MG.O ..THEORY/ SHELL MODEL/ PHONON DISPERSION/ SPECIFIC HEAT
- 4.101 MAGNESIUM STANIDE MG2.SN  
 70-RE-04 BERGSMAN 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 KFARNEY, WORLTON+ MG2.SN ..THEORY/ LATTICE DYNAMICS/ GROUP THEORETICAL TECHNIQUES
- 4.102 MAGNESIUM ZINC MG.ZN2  
 72-FS-01 ESCHRIG, URWANK+ MG.ZN2 ..THEORY/ EXPERIMENT/ MODEL-POTENTIAL/ PHONON DISPERSION/ FREQUENCY DISTRIBUTION  
 72-FS-02 ESCHRIG, FELDMANN+ MG.ZN2 ..CALCULATION/ MODEL POTENTIAL THEORY/ EXPERIMENT/ PHONON DENSITY
- 4.103 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.FF.(C.O)4/ H3.MN3.(C.O)12/ CS.H.FE3.(C.O)11 .EX
- 4.104 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.FF.(C.O)4/ H3.MN3.(C.O)12/ CS.H.FE3.(C.O)11 .EX
- 4.105 MANGANESE MONOXIDE MN.O
- 69-HA-05 HAYWOOD, COLLINS MN.O .EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION .CONST.=w/ RIGID-ION AND SHELL  
 70-UP-01 UPADHYANA, SINGH MN.O .THEORY/ DISPERSION RELATIONS  
 71-HA-06 HAYWOOD, COLLINS MN.O .EXPERIMENT/ PHONON DISPERSION/ SHELL MODEL FITTING
- 4.106 MOLYBDENUM DISULFIDE MO.S2
- 71-RR-03 BROMLEY MO.S2 .THEORY/ PHONON DISPERSION
- 4.107 NICKEL MONOSULFIDE NI.S
- 72-BR-02 BRIGGS, DUFFILL\* NI.S .EXPERIMENT/ PHONON AND MAGNON DISPERSION
- 4.108 NIORIUM 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
- 4.109 NIORIUM3.TIN NB3.SN
- 71-SH-05 SHIRANE, AXE NB3.SN .EXPERIMENT/ PHONON DISPERSION/ SOFT PHONON/ PHASE TRANSITION  
 72-SH-02 SHAM NB3.SN/ THEORY-OF-SOLIDS .THEORY/ SOLID/ LATTICE DYNAMICS
- 4.110 POTASSIUM ACID FLUORIDE K.H.F2
- 63-RO-02 ROUTIN, 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-SA-01 SAKAMOTO, IIZUMI\* K.H.F2/ (N.H4)2.S.O4/ POLYETHYLENE .EXPERIMENT/ BE-FILTER-DETECTOR/ MOLECULAR DYNAMICS
- 4.111 POTASSIUM AMMONIUM CHLORIDE K.N.H4.CL
- 72-SM-01 SMITH, WAKABAYASHI\* K.N.H4.CL .EXPERIMENT/ LOCALIZED PHONON
- 4.112 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-03 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
- 4.113 POTASSIUM BROMIDE K.BR
- 63-WO-02 WOODS, BROCKHOUSE+ K.BR/ NA.1 ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..90DK  
68-RU-03 BUYERS, COWLEY K.BR/ RB.BR ..EXPERIMENT/ LATTICE DYNAMICS ..MIXED CRYSTAL  
68-BU-05 BUYERS, SMITH K.CL/ K.BR/ NA.1/ NA.CL/ NA.BR/ NA.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/  
68-CO-10 COWLEY, BUYERS+ K.BR/ SR.TI.03 ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ ELASTIC CONSTANT ..NEUTRON MEASUREMENT  
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
- 4.114 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-05 BUYERS, SMITH K.CL/ K.BR/ NA.1/ NA.CL/ NA.BR/ NA.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/  
69-CO-04 COPLEY, MACPHERSON+ K.CL ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRA/ DEBYE TEMP./  
70-JA-03 JAYALAKSHMI, VISWAMITRA K.CL ..EXPERIMENT/ X-RAY SCATTERING  
70-RA-06 RAUNIO, ROLANDSON NA.CL/ K.CL/ RB.CL/ RB.F ..SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE  
70-RA-08 RAUNIO, ROLANDSON NA.CL/ K.CL/ RB.CL/ RB.F ..THEORY/ DISPERSION CURVES/ SHELL MODEL  
70-RF-02 RFD, SMITH NA.F/ NA.CL/ NA.BR/ NA.1/ K.CL/ K.BR ..THEORY/ SOLID/ DEBYE-WALLER FACTOR ..SHELL MODEL/ ROOT
- 4.115 POTASSIUM COBALT TRIFLUORIDE K.CO.F3
- 71-BU-02 BUYERS, HOLDEN+ K.CO.F3 ..THEORY/ MAGNON DISPERSION/ PHONON-MAGNON INTERACTION  
71-HO-01 HOLDEN, BUYERS+ K.CO.F3 ..EXPERIMENT/ PHONON DISPERSION/ MAGNON DISPERSION
- 4.116 POTASSIUM DIHYDROGEN FLUORIDE K.H2.F3
- 63-RO-02 BOUTIN, SAFFORD H.F/ K.H.F2/ K.H2.F3/ NA.H2.F3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
- 4.117 POTASSIUM DIHYDROGEN PHOSPHATE K.H2.P.04
- 61-RU-01 RUSH, TAYLOR+ K.H2.P.04/ (NA.H4)2.CR.04/ (NA.H4)2.CR2.07/ NA.H4.C.N.5/ NA.H4.CL.04 ..EXPERIMENT/ MOLECULAR DYN  
63-PA-01 PALFVSKY, OTNES+ K.H2.P.04 ..EXPERIMENT/ TOF  
65-IM-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  
67-BL-02 BLINC, DIMIC+ K.H2.P.04 ..MOLECULAR DYNAMICS/ SOLID/ EXPERIMENT  
67-TH-01 THAPER, ROY+ K.H2.P.04 ..EXPERIMENT/ FREQUENCY SPECTRA  
68-RU-04 BUYERS, COWLEY+ K.H2.P.04 ..EXPERIMENT/ QUASI-ELASTIC SCATTERING ..34DC - -49,6DC  
68-SC-01 SCHENK, WIENER+ K.H2.P.04 ..EXPERIMENT/ LATTICE DYNAMICS ..PHASE TRANSITION  
68-SC-02 SCHENK, WIENER+ K.H2.P.04 ..EXPERIMENT/ TOF/ SINGLE CRYSTAL ..AS A FUNCTION OF TEMPERATURE/ PHASE TRANSITION

- 69-CO-01 COCHRAN NEUTRON-SCATTERING-IN-SOLIDS/ RA.TI.O3/ K.H2.P.04/ NA.N.02 .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-AR-01 ARSIC-ESKINJA, GRIMM+ K.H2.P.04 .EXPERIMENT/ ELASTIC SCATTERING/ PHASE TRANSITION
- 4.118 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 DYNAMI
- 4.119 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.FF.(C.O)4/ H3.MN3.(C.O)12/ CS.H.FE3.(C.O)11 .EX
- 4.120 POTASSIUM HYDROGEN TRICHLOROACETATE K.H.(C.CL3.C.O)2
- 72-GH-02 GHOSH, WADDINGTON+ NA.H.F2/ CS.H.CL2/ H.CR.O2/ H.CO.O2/ K.H.(C.CL3.C.O)2 .EXPERIMENT/ NEUTRON SPECTROSCO
- 4.121 POTASSIUM IODIDE K.I
- 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/ INTERMOLECU
- 4.122 POTASSIUM MANGANESE TRIFLUORIDE K.MN.F3
- 69-MI-02 MINKIEWICZ, SHIRANE K.MN.F3 .EXPERIMENT/ DISPERSION RELATION/ TEMPERATURE DEPENDENCE  
 72-GE-01 GESI, AXE+ K.MN.F3 .EXPERIMENTS/ SOFT PHONON/ DISPERSION RELATION/ CURIE-WEISS LAW/ DAMPING PARAMETER/ DI  
 72-GE-02 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
- 4.123 POTASSIUM MONOHYDROGEN PHOSPHATE K2.H.P.04
- 65-IM-01 IMRY, PELAH+ K.H2.P.04/ K2.H.P.04/ K3.P.04 .EXPERIMENT/ LATTICE DYNAMICS .TOF  
 65-PF-03 PFI AH, WIENER+ K.H2.P.04/ K2.H.P.04/ K3.P.04 .EXPERIMENT/ LATTICE DYNAMICS .TOF
- 4.124 POTASSIUM OXALATE K2.C2.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.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
- 4.125 POTASSIUM PHOSPHATE K3.P.04
- 65-IM-01 IMRY, PELAH+ K.H2.P.04/ K2.H.P.04/ K3.P.04 .EXPERIMENT/ LATTICE DYNAMICS .TOF

65-PF-03 PELAH, WIENER+ K.H2.P.04/ K2.H.P.04/ K3.P.04 ..EXPERIMENT/ LATTICE DYNAMICS ..TOF

4.126 POTASSIUM RHENIUM HYDRIDE K2.RE.H9 NA2.RE.H9 ..EXPERIMENT/ N-SPECTROSCOPY/ MOLECULAR VIBRATION

72-WH-02 WHITE, WRIGHT K.TA.03 ..EXPERIMENT/ PHONON DISPERSION/ ANISOTROPY

4.127 POTASSIUM TANTALATE K.TA.03

67-SH-01 SHIRANE, NATHANS+ K.TA.03 ..EXPERIMENT/ PHASE TRANSITION/ SOFT MODE/ LATTICE DYNAMICS

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

72-CO-02 COMES, SHIRANE K.TA.03 ..EXPERIMENT/ PHONON DISPERSION/ ANISOTROPY

4.128 QUARTZ SI.O2

67-FL-01 ELCOMBF @QUARTZ ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION

69-LE-01 LFADBETTER SILICA/ QUARTZ/ CRISTORALITF ..EXPERIMENT/ COLLECTIVE VIBRATION/ AMORPHOUS SOLID ..TOF/ SILICA/

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

4.129 RUBIDIUM AZIDE RB.N3

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

4.130 RUBIDIUM BROMIDE RB.BR

68-RU-03 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

4.131 RUBIDIUM CHLORIDE RB.CL

70-RA-06 RAUNIO, ROLANDSON NA.CL/ K.CL/ RB.CL/ RB.F ..SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE

70-HA-07 RAUNIO, ROLANDSON RB.CL/ RB.F ..EXPERIMENT/ CONST.-@/ LATTICE DYNAMICS/ DISPERSION RELATION ..80DK/ DEFORM

70-RA-08 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

4.132 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

4.133 RUBIDIUM FLUORIDE RB.F

70-RA-06 RAUNIO, ROLANDSON NA.CL/ K.CL/ RB.CL/ RB.F ..SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE

70-RA-07 RAUNIO, ROLANDSON RB.CL/ RB.F ..EXPERIMENT/ CONST.-@/ LATTICE DYNAMICS/ DISPERSION RELATION ..80DK/ DEFORM



70-KA-08 RAJNIO, ROLANDSON NA,CL/ K,CL/ RB,CL/ RB.F .,THEORY/ DISPERSION CURVES/ SHELL MODEL  
 72-LA-02 LAL, VERMA RB.F/ RB,CL/ RB,RR/ RB.I .,THEORY/ PHONON DISPERSION/ SHELL MODEL

4.134 RURIIDIUM IODIDE RB.I  
 60-SA-01 SAUNDERSON RB.I .,EXPPRIMENT/ LATTICE DYNAMICS  
 65-HA-02 HARDY, KARO RB.I .,DISPERSION RELATION/ THEORY/ SOLID/ LATTICE DYNAMICS  
 66-SA-05 SAUNDERSON RB.I .,EXPPRIMENT/ PHONON FREQUENCY/ PRESSURE EFFECT  
 72-LA-02 LAI, VERMA RB.F/ RB,CL/ RB,RR/ RB.I .,THEORY/ PHONON DISPERSION/ SHELL MODEL

4.135 RUTILE TI.O2  
 70-KA-03 KATIYAR RUTILE .,THEORY/ LATTICE DYNAMICS .,MULTIPLIER GROUP APPROACH  
 70-TR-01 TRYLOR TI.O2 .,EXPPRIMENT/ DISPERSION RELATION/ RIGID ION MODFL/ SHELL MODEL/ FREQUENCY SPECTRUM/ DIELECTRIC  
 71-KA-01 KATIYAR TI.O2 .,EXPPRIMENT/ PHONON DISPERSION/ MODEL FITTING/ SHELL MODEL  
 71-TR-01 TRAYLOR, SMITH+ TI.O2 .,EXPPRIMENT/ DISPERSION CURVE/ NEUTRON SCATTERING/ THEORY/ FREQUENCY SPECTRUM .,TEMPERATURE

4.136 RUTHENIUM TETROXIDE RU.O4  
 72-MC-01 MCDOWELL, ASPREY+ RU.O4 .,EXPPRIMENT .,INFRARED AND RAMAN SPECTRA/ VAPOR AND LIQUID PHASE/ ANHARMONICITY/

4.137 SELENIUM TELLURIDE SE,TE SE,TE  
 69-GI-03 GILLIS SE,TE .,THEORY/ SOLID

4.138 SILANE SI.H4  
 72-HA-04 HAUTECLER, VORDERWISCH SI.H4 .,EXPPRIMENT/ TOF SPECTRA/ GAS AND LIQUID STATE

4.139 SILICA SI.O2  
 69-LF-01 LFADRETTER SILICA/ QUARTZ/ CRISTORALITE .,EXPPRIMENT/ COLLECTIVE VIBRATION/ AMORPHOUS SOLID .,TOF/ SILICA/

4.140 SILICON CARBIDE SI.C  
 69-HO-01 HODGES SI.C .,THEORY/ SOLID/ LATTICE DYNAMICS  
 69-VF-01 VFTLINO, MITRA SI.C .,LATTICE DYNAMICS/ SOLID/ THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION  
 71-RA-05 BANERJEE, VARSHNI ZN,S/ GA,P/ SI.C .,THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMPERATURE

4.141 SILVER BROMIDE AG.BR  
 72-HA-05 HAWRANFK, LOWNDES AG.BR .,THEORY/ PHONON DISPERSION/ STATE DENSITY/ DEFORMATION DIPOLE MODEL

- 4.142 SILVER CHLORIDE AG.Cl  
70-VI-01 VIJAYARAGHAVAN, NICKLOW+ SILVER CHLORIDE ..EXPERIMENT/ LATTICE DYNAMICS/ 70DK/ DISPERSION CURVE/ DENSITY S
- 4.143 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
- 4.144 SODIUM AZIDE NA.N3  
70-RA-04 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
- 4.145 SODIUM BROMIDE NA.BR  
68-BU-05 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-RF-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
- 4.146 SODIUM CHLORIDE NA.Cl  
68-AL-01 ALMØVIST, RAUNIO+ NA.Cl ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION ..80DK  
68-RF-01 BENEDEK, NARDELLI NA.Cl/ K.Cl ..DISPERSION RELATION/ THEORY/ LATTICE DYNAMICS  
68-BU-05 BUYERS, SMITH K.Cl/ K.Br/ Na.I/ Na.Cl/ Na.Br/ Na.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/  
68-MF-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  
70-HA-06 RAUNIO, ROLANDSON NA.Cl/ K.Cl/ Br.Cl/ Rb.F ..SHELL MODEL FITTING/ FREQUENCY SPECTRUM/ DEBYE TEMPERATURE  
70-RA-08 RAUNIO, ROLANDSON NA.Cl/ K.Cl/ Rb.Cl/ Rb.F ..THEORY/ DISPERSION CURVES/ SHELL MODEL  
70-RF-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-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
- 4.147 SODIUM DIHYDROGEN FLUORIDE NA.H2.F3  
63-RO-02 BOUTIN, SAFFORD H.F/ K.H.F2/ K.H2.F3/ NA.H2.F3 ..EXPERIMENT/ TOF SPECTRA/ MOLECULAR DYNAMICS
- 4.148 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-RF-02 REID, SMITH NA.F/ NA.CL/ NA.BR/ NA.I/ K.CL/ K.RR ..THEORY/ SOLID/ DEBYE-WALLER FACTOR ..SHELL MODEL/ ROOT  
 70-SI-05 SINGH, VERMA NA.F/ NA.RR/ 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
- 4.149 SODIUM HYDROGEN CARBONATE NA.H.C.03  
 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
- 4.150 SODIUM HYDROGEN FLUORIDE NA.H.F2  
 72-GH-02 GHOSH, WADDINGTON+ NA.H.F2/ CS.H.CL2/ H.CR.02/ H.CO.02/ K.H.(C.CL3.C.02)2 ..EXPERIMENT/ NEUTRON SPECTROSCO
- 4.151 SODIUM HYDROSULFIDE NA.S.H  
 72-DE-03 DE-GRAAF, RUSH+ NA.S.H/ CE.S.H ..EXPERIMENT/ MOLECULAR ROTATION/ PHASE TRANSITION/ QUASI-ELASTIC
- 4.152 SODIUM IODIDE NA.I  
 60-WO-01 WOODS, COCHRAN+ NA.I ..EXPERIMENT/ DISPERSION RELATION  
 63-WO-02 WOODS, BROCKHOUSE+ K.RR/ NA.I ..EXPERIMENT/ DISPERSION RELATION/ LATTICE DYNAMICS ..90DK  
 68-RU-05 BUYERS, SMITH K.CL/ K.BR/ NA.I/ NA.CL/ NA.BR/ NA.F ..THEORY/ DEBYE-WALLER FACTOR ..TEMPERATURE DEPENDENCE/  
 68-MF-01 MELVIN, PIRIE+ NA.F/ NA.CL/ NA.BR/ NA.I ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE ..SHELL MODEL/ IONIC  
 68-QU-01 QUITTNER, VUKOVICH+ NA.I ..EXPERIMENT/ LATTICE DYNAMICS ..PRESSURE EFFECTS/ 3000 ATM  
 70-KU-01 KUCHER, TOMASEVICH NA.I ..THEORY/ SOLID/ FREQUENCY DISTRIBUTION  
 70-RF-02 RFID, 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
- 4.153 SODIUM NITRATE NA.N.03  
 70-RA-02 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
- 4.154 SODIUM NIOBATE NA.NB.03  
 72-AH-02 AHTEF, GLAZER+ NA.NB.03 ..THEORY/ PHASE TRANSITION/ SOFT PHONON
- 4.155 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
- 4.156 SODIUM RHENIUM HYDRIDE NA2.RE.H9

72-WH-02 WHITE, WRIGHT K2.RE.H9/ NA2.RE.H9 ..EXPERIMENT/ N-SPECTROSCOPY/ MOLECULAR VIBRATION

4.157 STRONTIUM FLUORIDE SR.F2

70-DF-03 DENHAM, FIELD+ CA.F2/ SR.F2/ HA.F2/ CD.F2/ PB.F2 ..THEORY/ LATTICE DYNAMICS/ FREQUENCY SPECTRA/ DISPERSION

72-FL-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

4.158 STRONTIUM OXIDE SR.O

71-CA-01 CALTIER, MONTANER MG.O/ CA.O/ SR.O/ BA.O ..THEORY/ PHONON DISPERSION

4.159 STRONTIUM TITANATE SR.TI.O3

62-CO-05 COWLEY SR.TI.O3 ..EXPERIMENT/ DISPERSION RELATION

63-CO-07 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/ PR.TI.O3 ..EXPERIMENT/ LATTICE VIBRATION ..POLYCRYSTAL/ ROOM TEMP/ 47

68-CO-10 COWLEY, BUYERS+ K.BR/ SR.TI.O3 ..THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ ELASTIC CONSTANT ..NEUTRON MEASUREM

68-FL-01 FLFURY, SCOTT+ SR.TI.O3 ..RAMAN SPECTROSCOPY

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./ 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 ZFIN, ZINENKO+ SR.TI.O3/ PR.ZR.O3 ..THEORY/ LATTICE DYNAMICS/ FERROELECTRICITY/ PHASE TRANSITION

71-IS-01 ISHIRASHI, TAKAGI BA.TI.O3/ SR.TI.O3 ..THEORY/ CALCULATION/ FORCE CONSTAT 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-FN-01 ENZ SR.TI.O3 ..THEORY/ SOFT MODF/ CENTRAL PEAK S(0,0)/ PHASE TRANSITION

72-II-02 IIZUMI, GESI+ SR.TI.O3 ..EXPERIMENT/ PHONON DISPERSION

72-IS-02 ISHIRASHI BA.TI.O3/ SR.TI.O3 ..THEORY/ FORCE CONSTANT

72-SH-03 SHAPIRO, AXF+ SR.TI.O3/ K.MN.F3 ..EXPRIMENT/ CRITICAL SCATTERING/ PHASE TRANSITION

72-ST-03 STIRLING SR.TI.O3 ..EXPERIMENT/ PHONON DISPERSION/ VARIOUS MODEL FITTING/ FREQUENCY DISTRIBUTION/ SPECIF

4.160 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 ..EXPRIMENT/ PHONON DISPERSION/ SUPERCONDUCTIVITY

72-MO-02 MOSTOLLER U.C/ HF.C/ TA.C/ NB.C ..THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL APPROACH

4.161 THALLOUS CHLORIDE TL.CL

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

4.162 THALLOUS BROMIDE TL.BR

- 67-CO-03 COWLEY, OKAZAKI TL, BR .. EXPERIMENT/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION
- 4.163 THORIUM DIOXIDE TH, O2
- 66-RE-03 BESHAI U/ U, O2/ TH, O2 .. EXPERIMENT/ TOTAL CROSS SECTION/ TOF
- 4.164 TIN DIOXIDE SN, O2
- 67-RP-02 BROWMAN, KAGAN SN/ SN, O2 .. DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS/ BORN-VON  
 71-KA-02 KATTIYAR, DAWSON+ SN, O2 .. EXPERIMENT/ INFRARED/ RAMAN/ OPTICAL FREQUENCY/ DIELECTRIC CONSTANT/ THEORY/ DISP
- 4.165 TIN TELLURIDE SN, TE
- 66-PA-04 PAWLEY, COCHRAN+ SN, TF .. EXPERIMENT/ PHONON DISPERSION/ TEMPERATURE DEPENDENCE  
 69-CO-05 COWLEY, DARRY+ SN, TE .. EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION .. 100DK  
 70-LF-03 LEFKOWITZ, SHIELDS+ SN, TE .. EXPERIMENT/ SN0, 94, GE0, 05, TE/ PHONON DISPERSION
- 4.166 TUNGSTATE CA, W, O4
- 72-ST-02 STEINMAN, KING+ CA, W, O4 .. EXPERIMENT/ PHONON DISPERSION/ RIGID-ION, SHELL MODEL CALCULATION
- 4.167 URANIUM CARBIDE U, C
- 67-PA-04 PAN, YEATER+ ZR-H/ NB-H/ TI-H/ U, C .. EXPERIMENT/ LATTICE DYNAMICS/ FREQUENCY DISTRIBUTION  
 68-RO-02 BORGONOVII, CARRIVEAU U, C .. SOLID/ SIGMA (E) .. ROOM TEMPERATURE  
 68-LA-01 LAJEUNESSE, MOORE+ U, C .. THEORY/ EXPERIMENT/ CROSS SECTION/ 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-SL-03 SLAGGIF U, C .. THEORY/ SOLID/ LATTICE DYNAMICS/ CENTRAL-FORCE MODELS/ BORN-VON KARMAN MODEL/ FREQUENCY D  
 72-MO-02 MOSTOLLER U, C/ HF, C/ TA, C/ NB, C .. THEORY/ PHONON DISPERSION/ PSEUDOPOTENTIAL APPROACH
- 4.168 URANIUM DIOXIDE U, O2
- 63-TH-02 THORSON, HAYWOOD U, O2 .. EXPERIMENT/ SOLID/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ TOF .. 22 DC  
 65-DO-01 DOLLING, COWLEY+ U, O2 .. EXPERIMENT/ THEORY/ DISPERSION RELATION .. 296DK/ 7-PARAMETER RIGID ION MODEL/ TRIP  
 65-WO-04 WOODS, DOLLING+ U, O2 .. CRYSTAL DYNAMICS/ DISPERSION RELATION/ EXPERIMENT  
 66-AD-01 ADKINS, PERSIANI+ U, O2 .. THEORY/ LATTICE DYNAMIC/ FREQUENCY DISTRIBUTION .. RESONANCE LINE SHAPES  
 66-RE-03 BESHAI U/ U, O2/ TH, O2 .. EXPERIMENT/ TOTAL CROSS SECTION/ TOF  
 67-R1-01 BISCHOFF, BRYANT+ POLYETHYLENE/ H2, O/ ZR-H/ NB-H/ U, O2 .. EXPERIMENT  
 68-RE-03 HEYSTER, BORGONOVII+ BIPHENYL/ ZR-H/ U, O2 .. LATTICE DYNAMICS/ SCATTERING FUNCTION  
 68-PU-01 PUROHIT, PAN+ U, C/ U, O2/ ZR-H/ TI-H/ NB-H/ TH-H .. SCATTERING FUNCTION/ FREQUENCY DISTRIBUTION/ EXPERIMENT  
 68-TH-01 THORSON ZR-H/ U, O2 .. SCATTERING FUNCTION/ EXPERIMENT/ SOLID .. DIFFERENTIAL SCATTERING CROSS SECTION
- 4.169 UREA C, O, (N, H)2
- 68-TR-03 TREVINO UREA .. THEORY/ SOLID

- 71-MC-01 MCKENZIE, PRYOR UREA ••THEORY/ PHONON DISPERSION
- 4.170 VANADIUM OXIDE V.02
- 72-HE-01 HEARN V.02 ••THEORY/ METAL-NONMETAL PHASE TRANSITION/ SOFT PHONON
- 4.171 VANADIUM SILICIDE V3.S1
- 71-DI-01 DIETERICH, SCHUSTER V3.S1 ••THEORY/ PHONON DISPERSION/ SOFT PHONON
- 71-SH-04 SHIRANE, AXE+ V3.S1 ••EXPERIMENT/ PHONON DISPERSION/ TEMPERATURE DEPENDENCE
- 4.172 XENON TETROXIDE XE.04
- 72-MC-02 MCDOWELL, ASPREY XE.04 ••EXPERIMENT ••VAPOR/ FREQUENCY SHIFT AND ANHARMONICITY CORRECTIONS/ INFRARED AND R
- 4.173 YTTRIUM VANADATE Y.V.04
- 68-MI-03 MILLER, CASPERS+ Y.V.04 ••EXPERIMENT/ LATTICE DYNAMICS ••INFRARED AND RAHMAN SPECTROSCOPY
- 4.174 ZINC OXIDE ZN.O
- 70-HE-01 HEWAT ZN.O/ BE.O ••THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES
- 70-WE-01 WEGENER, HAUTECLIER ZN.O ••EXPERIMENT/ TOF/ DISPERSION RELATION
- 70-WF-02 WFGNER ZN.O ••DISPERSION RELATION
- 4.175 ZINC SELFNIDE ZN.SE
- 71-HF-01 HENNION, MOUSSA+ ZN.SF ••EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING/ PHONON DENSITY
- 71-KU-01 KUNC, BALKANSKI+ ZN.SF ••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
- 4.176 ZINC SULFIDE ZN.S
- 69-FF-01 FFLDKAMP, VFNKATARAMAN+ ZN.S ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVES ••CONST-0/ SIX-PARAMETER V
- 69-MO-01 MONTGOMERY ZN.S/ DIAMOND/ SR.TI.03 ••GROUP THEORY/ LATTICE VIBRATION ••SYMMETRY PROPERTIES
- 69-VE-02 VETELINO, MITRA+ ZN.S ••THEORY/ LATTICE DYNAMICS/ DISPERSION CURVES ••RIGID ION MODEL
- 70-RF-04 BERGSMAN MG2.SN/ ZN.S ••EXPERIMENT/ TRIPLE AXIS SPECTROMETER/ PHONON DISPERSION RELATION
- 70-RF-05 BERGSMAN ZN.S ••EXPERIMENT/ DISPERSION CURVES ••RIGID ION MODEL/ SHELL MODEL
- 71-BA-05 BANERJEE, VARSHNI ZN.S/ GA.P/ SI.C ••THEORY/ PHONON DISPERSION/ FREQUENCY SPECTRA/ DEBYE TEMPERATURE
- 71-FF-01 FFLDKAMP, STEINMAN+ ZN.S ••EXPERIMENT/ PHONON DISPERSION/ MODEL FITTING
- 4.177 ZIRCONIUM CARBIDE ZR.C

72-SM-02 SMITH, WAKABAYASHI+ NB.C/ 7R.C/ TC/ ZR/ Y .EXPERIMENT/ SUPERCONDUCTIVITY/ ELECTRON-PHONON INTERACTION  
4.178 ZIRCONIUM TELLURIDE ZN.TE  
70-VF-02 VITTELINO, MITRA+ ZN.TE .DISPERSION RELATION, FREQUENCY SPECTRUM, DERBYE TEMPERATURE, MULTI PHONON INFRARED

## 5 ORGANIC COMPOUNDS

5. 1 ACENAPHTHENE  
 70-LU-01 LUTY, JANIK+ ACENAPHTHENE \*\*EXPERIMENT/ THEORY/ FREQUENCY SPECTRUM/ LATTICE DYNAMICS  
 C12.H10
5. 2 ACETIC ACID  
 65-GQ-01 GOLIKOV, ZHOKORSKA+ C2.H6.O2/ H2.O/ C2.H4.O2/ C6.H6 \*\*EXPERIMENT/ LIQUID/ SOLID  
 ACETIC ACID/ ALCOHOL \*\*MOLECULAR DYNAMICS/ LIQUID/ EXPERIMENT  
 67-AL-01 ALDRED, EDEN+ ACETIC ACID/ METHANOL \*\*EXPERIMENT/ TOF SPECTRUM/ QUASI-ELASTIC PEAK WIDTH  
 67-AL-02 ALDRED, EDEN+ ACETIC ACID/ METHANOL \*\*EXPERIMENT/ SUBSTITUTION OF DEUTERIUM AND FLUORINE  
 67-AL-03 ALDRED, EDEN+ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC  
 70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
5. 3 ACETYLENE  
 64-VA-01 VAN-DINGENEN, NEVEDE-MEVERGNIFS ACETYLENE/ AMMONIA/ METHANE \*\*TOTAL CROSS SECTION/ EXPERIMENT/ SOLID \*\*LON  
 C2.H2
5. 4 ADAMANTANE  
 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  
 69-ST-02 STOCKMEYER, HOSSFELD+ ADAMANTANE \*\*THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION \*\*COMPUTER CALCULATION  
 C10.H16
5. 5 ALCOHOL  
 61-BR-03 BRUGGER 7R-H/ H2.O/ BENZENE/ PARAFFINE/ ALCOHOL \*\*SIGMA (E,PRIME,THETA)/ EXPERIMENT/ LIQUIDS/ TOF  
 66-LA-01 LARON, BERGSTEDT ALCOHOL/ PENTANE \*\*THEORY/ LIQUID/ MOLECULAR DYNAMICS/ NEUTRON SPECTRA/ DIFFERENTIAL CROS  
 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. 6 ANILINE  
 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/ SODAMIDF/ ANILINE \*\*EXPERIMENT/ MOLECULAR DYNAMICS/ LINAC PULSED NEUTRON SOURCE  
 C6.H7.N
5. 7 ANTHRACENE  
 70-LU-02 LUTZ, MAELG ANTHRACENE \*\*THEORY/ EXPERIMENT/ SOLID \*\*COHERENT INELASTIC NEUTRON SCATTERING/ PHONON DISPERS  
 70-LU-03 LUTZ ANTHRACENE \*\*EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE/ FREQUENCY SPECTRUM  
 C14.H10



## 5. 8 BENZENE

## C6.H6

61-BR-03 BRUGGER ZR-H/ H2.O/ BENZENE/ PARAFFINE/ ALCOHOL .SIGMA (E-E-PRIME,THETA)/ EXPERIMENT/ LIQUIDS/ TOF  
 61-HF-02 HFINLOTH H2.O/ C6.H6/ C.H2.O2 .SIGMA(E)/ EXPERIMENT/ GAS/ LIQUID/ SOLID/ KRIEGER-NELKIN MODEL .TRANSMI  
 62-HO-01 ROFFI, MOLINARI+ BENZENE .THEORY/ MOLECULAR DYNAMICS/ FREQUENCY DISTRIBUTION .SCATTERING CROSS SECTION/  
 62-RU-01 RUSH, TAYLOR+ N.H4.CL/ N.H4.F/ N.H4.BR/ BENZENE/ TOLUENE/ MESITYLENE/ XYLENE .EXPERIMENT/ TOTAL C  
 62-ZF-01 ZEMLYANOV, CHERNOPOLEKOV POLYETHYLENE/ BENZENE/ BIPHENYL .EXPERIMENT/ MOLECULAR DYNAMICS  
 63-HO-01 ROFFI, MOLINARI+ C6.H6 .SIGMA(E)/ SCATTERING LAW/ FREQUENCY DISTRIBUTION/ THEORY/ GAS/ MOLECULAR DYNAMICS  
 64-GL-01 GLAFSER, BECRUITS BENZENE/ BIPHENYL/ BIPHYLE .EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING LAW/ SIGMA (E-E-PRIME,TH  
 65-GL-02 GLAFSER BENZENE/ BIPHENYL/ TERPHENYL .EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING LAW/ SIGMA (E-E-PRIME,TH  
 65-GL-03 GLAFSER, FHRET+ C6.H6/ H2.O/ ZR-H .SCATTERING LAW/ FREQUENCY DISTRIBUTION/ EXPERIMENT/ LIQUID/ SOLID  
 65-GO-01 GOLIKOV, ZHOKORSKJA+ 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-ZF-02 ZEMLYANOV, CHERNDLEKOV+ C6.H6 .SIGMA(F, E-PRIME,THETA)/ EXPERIMENT/ LIQUID .290DK  
 66-AN-01 ANTONINI, PAOLETTI+ BENZENE/ BIPHENYL .EXPERIMENT/ SOLID/ LIQUID/ SIGMA(E)  
 66-RO-01 ROFFI, 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  
 67-RF-03 RYSTER, BORGONOV+ C.H2/ C6.H6/ ZR-H .EXPERIMENT  
 67-GF-01 GEF, 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-RF-04 RYSTER, BORGONOV+ C.H2/ ZR-H/ C6.H6 .EXPERIMENT/ MOLECULAR DYNAMICS  
 68-HF-01 HENRY, SIEBRAND BENZENE .FREQUENCY SPECTRUM/ THEORY/ LIQUID/ MOLECULAR DYNAMICS  
 68-HO-02 HOLMRYD, NELIN BENZENE/ TOLUENE .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 NANTEN BENZENE .LIQUID/ EXPERIMENT/ MOLECULAR DYNAMICS .X-RAY DIFFRACTION/ 25DC  
 68-RO-01 ROSS, SZABO+ BENZENE/ H2.O .SCATTERING FUNCTION/ MOLECULAR DYNAMICS .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, BORGONOV+ BENZENE .SCATTERING FUNCTION/ LIQUID/ NEUTRON SPECTRUM/ SCATTERING THEORY .ROOM TEMP  
 68-TR-01 TRPADUS, 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-RF-02 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-RO-01 RONADEO, TADDEI BENZENE .THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION FUNCTION  
 73-TA-01 TADDEI, RONADEO+ C6.H6 .THEORY/ LATTICE DYNAMICS .F AND G MATRIX METHOD

## 5. 9 BIPHENYL

## C12.H10

62-ZF-01 ZEMLYANOV, CHERNOPOLEKOV POLYETHYLENE/ BENZENE/ BIPHENYL .EXPERIMENT/ MOLECULAR DYNAMICS  
 64-GL-01 GLAFSER, BECRUITS 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 GLAFSER BENZENE/ BIPHENYL/ BIPHYLE .EXPERIMENT/ MOLECULAR DYNAMICS  
 65-HO-01 HOFMEYER BENZENE/ BIPHENYL/ TERPHENYL .EXPERIMENT .21DC-150DC 10X,23H DATA END IN GTMIN RTN.)  
 66-AN-01 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-RF-03 HEYSTER, BORGONOVICH\* BIPHENYL/ ZR-H/ U.O2 ..LATTICE DYNAMICS/ SCATTERING FUNCTION  
 69-SP-02 SPREKAK, KOPPEL BIPHENYL ..THEORY/ SCATTERING LAW/ SIGMA (E)/ LIQUID
5. 10 BIPHYLE
- 64-GL-01 GLAFSFR, BECRUTS HENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ SOLID/ LIQUID ..2ND MOMENT OF ENERGY TRANSFER  
 65-GL-02 GLAESER BENZENE/ BIPHENYL/ BIPHYLE ..EXPERIMENT/ MOLECULAR DYNAMICS/ SCATTERING LAW/ SIGMA (E)/ LIQUID
5. 11 BUTANE C4.H10
- 68-HO-03 HOYLAND C4.H10 ..THEORY/ MOLECULE DYNAMICS
5. 12 BUTANOL C4.H10.O
- 72-RO-01 RODRIGUES, VINHAS\* METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGMA
5. 13 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/ LIQUID  
 69-RE-03 REYNOLDS, WHITE CHLOROBENZENE
5. 14 CHLOROETHANE C2.H5.Cl
- 71-RR-01 BRIER, HIGGINS\* CHLOROETHANE ..THEORY/ EXPERIMENT/ LIQUID/ TIME-OF-FLIGHT TECHNIQUES
5. 15 CHLORONAPHTHALENE C10.H7.Cl
- 68-FI-01 EISENTHAL, DOWLEY\* CHLORONAPHTHALENE ..EXPERIMENT/ LIQUID ..TWO-PHONON SPECTRUM
5. 16 CYANAMIDE C.H2.N2
- 68-DU-01 DURIG, WALKER\* CYANAMIDE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS
5. 17 CYCLOHEXANF C6.H12
- 63-BE-01 BECKA CYCLOHEXANF/ DIMETHYLBUTANF/ DIAZOBICYCLOCTANF ..EXPERIMENT/ TOF  
 66-SC-02 SCHMIDT, SAAD BENZENE/ BIPHENYL/ TERPHENYL/ CYCLOHEXANE ..EXPERIMENT  
 68-TA-02 TARINA CYCLOHEXANE ..EXPERIMENT/ SIGMA(E)/ DIFFERENTIAL CROSS SECTION ..SOLID-LIQUID TRANSITION/ ~200C  
 69-DF-01 DE-GRAAF CYCLOHEXANE ..LIQUID/ SOLID/ EXPERIMENT/ TIME OF FLIGHT ..HINDERED ROTATION OF RIGID MOLECULE/  
 69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC  
 70-PI-01 PICKETT, STRAUSS CYCLOHEXANE ..EXPERIMENT/ THEORY/ MOLECULAR VIBRATION/ INTERATOMIC FORCE CONSTANT ..FG=HF
5. 18 CYCLOHEXANOL C6.H12.O

- 69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H<sub>2</sub>O/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC  
70-DF-02 DE-MUL, BERGMAN CYCLOHEXANOL ..EXPERIMENT/ TOF/ LIQUID/ QUASI-ELASTIC PEAK ..JUMP-DIFFUSION/ INCOHERENT NE
5. 19 DIAZOBICYCLOOCTANE  
63-RE-01 BECKA CYCLOHEXANE/ DIMETHYLBUTANE/ DIAZOBICYCLOOCTANE ..EXPERIMENT/ TOF
5. 20 DICALCIUM LEAD PROPIONATE (C<sub>3</sub>H<sub>5</sub>O<sub>2</sub>)<sub>6</sub>CA<sub>2</sub>PB  
72-QU-01 QUILICHINI, POULET DICALCIUM LEAD PROPIONATE ..EXPERIMENT/ FREQUENCY DISTRIBUTION FUNCTION ..PHASE TRANSIT
5. 21 DIBROMOBENZENE C<sub>6</sub>H<sub>4</sub>BR<sub>2</sub>  
72-RF-02 REYNOLDS, KJEMS+ C<sub>6</sub>H<sub>4</sub>CL<sub>2</sub>/ C<sub>6</sub>H<sub>4</sub>RR<sub>2</sub> ..NEUTRON SPECTRUM/ THEORY/ EXPERIMENT/ INELASTIC NEUTRON SCATTERING
5. 22 DICHLOROBENZENE C<sub>6</sub>H<sub>4</sub>CL<sub>2</sub>  
72-RF-02 REYNOLDS, KJEMS+ C<sub>6</sub>H<sub>4</sub>CL<sub>2</sub>/ C<sub>6</sub>H<sub>4</sub>BR<sub>2</sub> ..NEUTRON SPECTRUM/ THEORY/ EXPERIMENT/ INELASTIC NEUTRON SCATTERING  
72-RF-03 REYNOLDS, KJEMS+ C<sub>6</sub>H<sub>4</sub>CL<sub>2</sub> ..EXPERIMENT/ PHONON DISPERSION/ TRICLINIC PHASE/ 295K TO 90K
5. 23 DIMETHYLACETYLENE  
62-RU-02 RUSH, SAFFORD+ N<sub>2</sub>H<sub>4</sub>P<sub>2</sub>F<sub>6</sub>/ (N<sub>2</sub>H<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>/ (N<sub>2</sub>H<sub>4</sub>)<sub>2</sub>CR<sub>2</sub>O<sub>4</sub>/ N<sub>2</sub>H<sub>4</sub>S<sub>2</sub>O<sub>3</sub>F/ DIMETHYLACETYLENE ..EXPERIMENT/ MOLEC  
64-JA-01 JANIK, JANIK+ C<sub>4</sub>H<sub>4</sub>/ C<sub>4</sub>H<sub>3</sub>I/ DIMETHYLACETYLENE/ N<sub>2</sub>H<sub>4</sub>CL<sub>2</sub>O<sub>4</sub>/ N<sub>2</sub>H<sub>4</sub>P<sub>2</sub>F<sub>6</sub>/ H<sub>3</sub>O<sub>2</sub>CL<sub>2</sub>O<sub>4</sub>/ DIMETHOXYAZOXYBENZENE
5. 24 DIMETHYLBUTANE  
63-RE-01 BECKA CYCLOHEXANE/ DIMETHYLBUTANE/ DIAZOBICYCLOOCTANE ..EXPERIMENT/ TOF
5. 25 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. 26 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. 27 DODECANE C<sub>12</sub>H<sub>26</sub>  
70-EG-01 EGELSTAFF, HARRIS PENTANE/ HEPTANE/ DODECANE ..EXPERIMENT/ QUASI-ELASTIC/ DIFFUSION CONSTANT

5. 28 EICOSANE C20.H42  
72-BA-06 BARNES NONADECANE/ EICOSANE ..EXPERIMENT/ @EASI-ELASTIC PEAK/ ROTATIONAL DIFFUSION/ PLASTIC CRYSTAL
5. 29 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  
66-BR-04 BRUGGER METHANE/ ETHANE/ AL/ NA/ PB/ AR ..COMPILATION/ SCATTERING FUNCTION  
67-ST-06 STRONG, BRUGGER ETHANE ..MOLECULAR DYNAMICS/ GAS/ EXPERIMENT/ FREQUENCY DISTRIBUTION ..ROOM TEMPERATURE  
68-RU-01 BULAVIN, VORONEL+ ETHANE ..EXPERIMENT/ @QUASI-ELASTIC/ LIQUID/ GAS
5. 30 ETHANEDIOL  
72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM
5. 31 ETHANOL C2.H5.O  
72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM
5. 32 ETHYL CHLORIDE C2.H5.CL  
70-ST-02 STRONG, BRUGGER+ ETHYL CHLORIDE ..EXPERIMENT/ FREQUENCY DISTRIBUTION/ LIQUID/ SOLID
5. 33 ETHYLENE C2.H4  
65-BA-02 BALLY, TODIREANU+ ETHYLENE ..EXPERIMENT/ SCATTERING LAW ..GAS TARGET/ TRIPLE-AXIS SPECTROMETER  
67-BA-02 BALLY, TODIREANU+ METHANE/ ETHYLENE ..GAS/ EXPERIMENT
5. 34 ETHYLENE GLYCOL C2.H6.O2  
65-GO-01 GOLIKOV, ZHOKORSKJA+ C2.H6.O2/ H2.O/ C2.H4.O2/ C6.H6 ..EXPERIMENT/ LIQUID/ SOLID
5. 35 FLUORINATED CYCLOHEXANE  
72-LE-01 LEADBETTER, LITCHINSKY+ FLUORINATED CYCLOHEXANE ..EXPERIMENT/ MOLECULAR ROTATION/ @QUASI-ELASTIC SCATTERING
5. 36 FORMIC ACID C.H2.O2  
61-HF-02 HFINLOTH 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. 37 GLYCELTRF C3.H8.O3  
 63-LA-01 LARSSON, DAHLBORG D2.O/ GLYCELTRF/ H2.O ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION/ TOF ..278, 295, 368,  
 64-LA-01 LARSSON, DAHLBORG H2.O/ D2.O/ PENTANE/ GLYCELTRF ..EXPERIMENT/ LIQUID/ FREQUENCY DISTRIBUTION  
 70-BI-01 RIRR GLYCELTRF ..EXPERIMENT/ QUASI-ELASTIC SCATTERING/ DIFFUSION CONSTANT
5. 38 HEPTANE C7.H16  
 70-FG-01 FEGELSTAFF, HARRIS PENTANE/ HEPTANE/ DODECANE ..EXPERIMENT/ QUASI-ELASTIC/ DIFFUSION CONSTANT
5. 39 HEXAMETHYLBENZENE C12.H18  
 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. 40 HEXAMETHYLENETETRAMINE C6.H12.N4  
 62-RE-01 RFCKA HEXAMETHYLENETETRAMINE ..EXPERIMENT/ NEUTRON SPECTROMETRY ..80DK/ 300DK/  
 64-CO-01 COCHRAN, PAWLEY HEXAMETHYLENETETRAMINE ..THEORY/ LATTICE DYNAMICS/ DISPERSION/ FREQUENCY DISTRIBUTION ..X-  
 68-CH-01 CHFN, DVORAK HEXAMETHYLENETETRAMINE/ ADAMANTANE/ N.H4.CL ..THEORY/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS/ D  
 68-PO-02 POWELL HEXAMETHYLENETETRAMINE ..EXPERIMENT/ CONST..O/ DISPERSION CURVES/ FREQUENCY DISTRIBUTION ..296D  
 69-PA-02 PAWLEY C6.H12.N4 ..THEORY/ MODEL FITTING/ LATTICE DYNAMICS  
 70-RO-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 HFAMETHYLENETETRAMINE ..THEORY/ LATTICE DYNAMICS  
 71-MC-02 MCMULLAN, HOGAN HEXAMETHYLENETETRAMINE ..THEORY/ LATTICE DYNAMICS/ DISPERSION CURVE/ SOLID/ MOLECULAR CHYS
5. 41 MALONIC ACID C3.H4.O4  
 70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
5. 42 MERCAPTAN C2.H6.S  
 68-SA-04 SAMPSON, CARPENTER ALCOHOL/ MERCAPTAN ..EXPERIMENT/ MOLECULAR DYNAMICS
5. 43 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, GLAURER 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-RC-01 MCMURRY, GANNON+ METHANE/ PROPANE .THORY/ GAS/ DIFFERENTIAL CROSS SECTION  
62-ST-01 STILLER, HAUTECLER METHANE .EXPERIMENT/ MOLECULAR DYNAMICS/ LIQUID  
63-GR-01 GRIFFING C.H4 .SIGMA(E-PRIME,THETA)/ SCATTERING FUNCTION/ THEORY/ GAS/ CROSS SECTION  
63-HA-03 HAUTECLER, STILLER C.H4 .SIGMA(E-PRIME,THETA)/ EXPERIMENT/ MOLECULAR DYNAMICS  
63-JA-01 JANIK, JANIK+ C.H4/ N.H4.1/ 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-KO-01 ROGALSKA METHANE .SIGMA(E)/ EXPERIMENT/ LIQUID .-136DC/ 0.0057 TO 0.101EV  
63-KO-02 ROGALSKA METHANE .EXPERIMENT/ TOTAL SCATTERING CROSS SECTION VS. NEUTRON ENERGY/ LIQUID STATE  
63-ST-01 STILLER, HAUTECLER METHANE .SOLID/ EXPERIMENT  
63-WF-01 WFR C.H4/ N.H3/ H2 .SIGMA(E-PRIME,THETA)/ EXPERIMENT/ GAS .ROOM TEMPERATURE  
64-BR-05 BRUGGER, KAINLY+ 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.H3.1/ DIMETHYLACETYLENE/ N.H4.CL.O4/ N.H4.P.F6/ H3.O.CL.O4/ DIMETHOXYAZOXYBENZENE  
64-OT-01 OTNS, MELLOR+ C.H4 .EXPERIMENT/ LIQUID  
64-VA-01 VAN-DINGENEN, NEVEDE-MEVERGNIS ACETYLENE/ AMMONIA/ METHANE .TOTAL CROSS SECTION/ EXPERIMENT/ SOLID .LOI  
64-WH-01 WHITEMORE C.H4/ H .EXPERIMENT/ LIQUID/ MOLECULAR DYNAMICS .NEUTRON SPECTRA/ TOTAL CROSS SECTION  
65-DA-02 DASANNACHARYA, VENKATARAMAN+ C.H4 .SIGMA(E-PRIME,THETA)/ EXPERIMENT/ LIQUID .E=4.87 MILLI-V/ 97.5DK  
65-DO-05 DORNER, STILLER C.H4 .SIGMA(E-PRIME,THETA)/ EXPERIMENT/ SOLID/ MOLECULAR DYNAMICS  
65-GA-01 GANNON, MCMURRY C.H4/ C2.H6/ COMPUTER-CODES .THEORY/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION  
65-GR-01 GRIFFING C.H4 .THEORY/ LIQUID .LANGEVIN EQUATION/ COMPARED WITH EXPERIMENT  
65-HA-03 HARKER, BRUGGER METHANE .SOLID/ LIQUID/ GAS/ SCATTERING LAW/ EXPERIMENT/ TOF/ MOLECULAR DYNAMICS .125DK/  
65-KO-01 ROGALSKA METHANE .EXPERIMENT/ SOLID/ LIQUID/ TOTAL CROSS SECTION .105DK/ 80DK/ 1.5MEV-4.5MEV  
65-WH-01 WHITEMORE POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H .EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI  
66-RR-04 BRUGGER METHANE/ ETHANE/ AL/ NA/ PB/ AR .COMPILATION/ SCATTERING FUNCTION  
66-DO-03 DORNER, STILLER C.H4 .EXPERIMENT/ FREQUENCY DISTRIBUTION/ SOLID .6.5DK/ 2.7DK/ INVERSE-FILTER-METHOD  
66-HA-01 HARKER C.H4/ N.H4.1 .SIGMA(E-PRIME,THETA)/ EXPERIMENT/ SOLID .5DK, 9DK, 18DK, 22DK/ E=34.7MV, THETA=48.  
66-KO-05 KOSALY, SOLT NEUTRON-SCATTERING-IN-FLUIDS/ METHANE .MOLECULAR DYNAMICS .DIFFERENTIAL CROSS SECTIO  
66-SI-03 SINHA, VENKATARAMAN, DASANNACHARYA+ METHANE .LIQUID/ EXPERIMENT/ MOLECULAR DYNAMICS/ TOF .COHERENT  
66-VF-01 VFNKATARAMAN, RAO+ AMMONIA/ METHANE .THEORY/ CALCULATION/ CROSS SECTION/ GAS PHASE  
66-VF-03 VENKATARAMAN, RAO+ METHANE .SCATTERING LAW/ EXPERIMENT/ THEORY/ GAS .306DK/ C.D4  
66-WF-01 WEST, BRUGGER+ C.H4 .EXPERIMENT/ SCATTERING FUNCTION/ GAS/ MOLECULAR DYNAMICS .306DK/ TOF  
66-WF-02 WEST, BRUGGER+ C.H4 .EXPERIMENT/ SCATTERING FUNCTION/ GAS/ MOLECULAR DYNAMICS .306DK/ TOF  
67-AG-01 AGRAWAL, YIP C.H4 .THEORY/ LIQUID/ CROSS SECTION EVALUATION  
67-BA-01 BAJOREK, NATKANIEC+ METHANE .EXPERIMENT/ 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/ FRE  
67-HA-01 HARKER, BRUGGER METHANE .EXPERIMENT/ SOLID/ TOF/ MOLECULAR DYNAMICS/ SCATTERING FUNCTION .5DK/ 9.1DK/ 18  
67-RA-07 RAO, VENKATARAMAN+ C.H4 .THEORY/ LIQUID .COMPARED WITH EXPERIMENT  
67-SF-01 SFARS METHANE .THEORY/ LIQUID .COMPARED WITH EXPERIMENT  
67-SO-01 SOLT METHANE .MOLECULAR DYNAMICS/ SCATTERING FUNCTION/ SOLID  
67-VF-01 VENKATARAMAN, DASANNACHARYA+ METHANE .LIQUID/ EXPERIMENT/ THEORY .COHERENT EFFECT  
67-WF-01 WFRB METHANE/ AMMONIA .GAS/ EXPERIMENT/ NEUTRON SPECTRUM .20K  
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-FD-01 EDFR, EGELSTAFF METHANE .EXPERIMENT/ SOLID/ LIQUID/ THEORY/ MOLECULAR DYNAMICS .METHANE IN ARGON  
68-JA-02 JANIK C.H4/ H2.O/ N.H3/ LI2.S.O4.H2.O/ H3.O.N.O3/ C.H3.1 .EXPERIMENT/ GAS/ LIQUID/ SOLID/ MOLECULAR  
68-SK-01 SKOELD METHANE .SCATTERING FUNCTION/ SOLID/ MOLECULAR DYNAMICS/ THEORY .22.1DK/ ORIENTATIONAL JUMP D  
69-FU-01 FULINSKI, JANIK+ METHANE .THEORY/ MOLECULAR INTERACTION

- 69-JA-03 JANIK, OTNES+ METHANE ..EXPERIMENT/ SPECTRUM AGAINST WAVELENGTH/ SOLID  
 C.H4 ..EXPERIMENT/ TOF SPECTRA
- 69-JA-04 JANIK, OTNES+ METHANE ..THEORY/ SOLID/ LATTICE VIBRATION/ FREQUENCY DISTRIBUTION  
 C.H4 ..EXPERIMENT
- 70-RA-01 BANSAL, KOTHARI+ NEUTRON-SCATTERING-IN-FLUIDS/ METHANE ..THEORY/ MOLECULE/ GAS/ ROTATIONAL CORRELATION/ CROSS  
 C.H4 ..EXPERIMENT
- 70-KA-02 KAPULLA, GLAESER C.H4 ..EXPERIMENT/ SOLID C.D4/ PHONON DISPERSION
- 71-HA-02 HAMA, NAKAMURA C.H4 ..EXPERIMENT/ SOLIDS/ LATTICE DYNAMICS/ DISPERSION RELATION/ MOLECULAR VIBRATIONS  
 C.H4 ..EXPERIMENT/ SOLIDS/ LATTICE DYNAMICS/ DISPERSION RELATION/ MOLECULAR VIBRATIONS
- 71-PR-02 PRESS, DORNER+ METHANE ..MULTIPLE SCATTERING/ CALCULATION/ CORRECTION
- 71-RA-03 RAO, DASAUNACHARYA+ ..EXPERIMENT/ SOLID/ ROTATING CRYSTAL SPECTROMETER/ SIGMA (E, E-PRIME, THETA)
- 72-KA-05 KAPULLA C.H4 ..EXPERIMENT/ SOLID METHANE/ SMALL ENERGY PEAKS
- 72-KA-06 KAPULLA, GLAESER C.H4 ..THEORY/ SOLID/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION ..SP
- 72-WA-03 WASIUTYNSKI, LUTY
5. 44 METHANETFLUOROL C.H4.TE
- 72-SI-07 SINK, HARVEY C.H4.TE ..EXPERIMENT ..INFRARED AND RAMAN SPECTRA
5. 45 METHANOL C.H4.O
- 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
- 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/ QUASI-ELASTIC SCATTERING/ MOLECULAR MOTION/ DIFFUSION
5. 46 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-RA-01 BAJOREK, JANIK+ METHYL IODIDE ..MOLECULAR DYNAMICS/ EXPERIMENT
5. 47 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-RE-03 BEYSTER, BORGONOVII+ C.H2/ C6.H6/ ZR-H ..EXPERIMENT
- 68-RE-04 BEYSTER, BORGONOVII+ C.H2/ ZR-H/ C6.H6 ..EXPERIMENT/ MOLECULAR DYNAMICS
- 68-HE-02 HERDADE METHYLENE ..EXPERIMENT/ SIGMA(E) ..METHYL GROUPS IN ORGANIC COMPOUNDS
5. 48 METHYLENE CHLORIDE C.H2.CL2
- 72-BR-01 BRIER, HIGGINS C.H2.CL2 ..EXPERIMENT/ MOLECULAR LIQUID/ TOF SPECTRA/ MODEL ANALYSIS
5. 49 NAPHTHALENE C10.H8
- 69-PA-03 PAWLEY, YEATS NAPHTHALENE ..EXPERIMENT/ PHONON DISPERSION/ DEUTERATED SAMPLE
- 70-PA-07 PAWLEY, CYVIN NAPHTHALENE ..THEORY/ DISPERSION RELATION/ MOLECULAR DYNAMICS/ SOLID
- 71-PA-02 PAWLEY, REYNOLDS+ NAPHTHALENE ..THEORY/ POLYCRYSTAL/ LATTICE DYNAMICS

5. 50 NONADECANE C19.H40  
72-BA-06 BARNES NONADECANE ••EXPERIMENT/ QUASI-ELASTIC PEAK/ ROTATIONAL DIFFUSION/ PLASTIC CRYSTAL
5. 51 NYLON 65-SA-01 SAFFORD, LOSACCO NYLON ••EXPERIMENT/ TOF SPECTRA/ FREQUENCY DISTRIBUTION/ LATTICE DYNAMICS
5. 52 OXALIC ACID C2.H2.O4  
70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
5. 53 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-RO-02 ROUTIN, PRASK+ POLYETHYLENE/ PARAFFINE ••FREQUENCY SPECTRUM/ EXPERIMENT/ SOLID  
68-BA-03 BANK, KRIMM POLYETHYLENE/ PARAFFINE ••FREQUENCY DISTRIBUTION/ SOLID/ EXPERIMENT ••INFRARED ABSORPTION SPEC
5. 54 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-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  
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 ROTA
5. 55 PENTANOL C5.H12.O  
67-RA-06 RAPEANU, ILESCU PENTANOL ••EXPERIMENT/ MOLECULAR DYNAMICS ••ROOM TEMP./ 3-AXIS SPECTROMETER  
68-DA-01 DAHLBORG, FRIBERG+ PENTANE/ PENTANOL ••EXPERIMENT ••QUASI-ELASTIC/ TEMPERATURE EFFECT
5. 56 PHENANTHRENE C14.H10  
71-SP-01 SPIELBERG, ARNDT+ PHENANTHRENE ••SOLID/ EXPERIMENT ••HINDERED VIBRATION
5. 57 PHENYL 64-SP-01 SPRINGER, HOFMYER+ H2.O/ D2.O/ PHENYL/ ZR-H ••EXPERIMENT/ LIQUID/ DIFFUSION PARAMETER ••AVE-MU



- 5: 58 P-AZOXYANISOLE  
 70-RL-01 BLINC, DIMIC P-AZOXYANISOLF •EXPERIMENT/ TOF •DIFFUSION CONSTANT/ LIQUID CRYSTAL  
 70-RL-02 BLINC, DIMIC P-AZOXYANISOLF •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 PYNN, OTNES+ P-AZOXYANISOLF •EXPERIMENT/ NEUTRON DIFFRACTION/ PHASE DIAGRAM
- 5: 59 POLYACETALDEHYDE  
 68-LO-02 LONGSTER, WHITE POLYACETALDEHYDE/ POLYTRIFLUOROACETALDEHYDE •EXPERIMENT/ TOF/ NEUTRON SPECTRUM •ROOM TEM
- 5: 60 POLYACRYLONITRILE  
 67-TR-01 TRVINO, BOUTIN POLYETHYLENE/ POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POLYOXYMETHYLENE •REVIEW/ TOF SPECTRA
- 5: 61 POLYDIMETHYLSILOXANE  
 69-HF-01 HENRY, SAFFORD POLYDIMETHYLSILOXANE •EXPERIMENT/ MOLECULAR DYNAMICS/ LATTICE DYNAMICS •25DC/ -123DC
- 5: 62 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-ZF-01 ZFMYANOV, CHERNOPLKOV POLYETHYLENE/ BENZENE/ BIPHENYL •EXPERIMENT/ MOLECULAR DYNAMICS  
 63-GO-01 GOLDMAN, FEDERIGHI POLYETHYLENE •LIQUID/ THEORY/ SIGMA (E-E-PRIME, THETA)/ NEUTRON SPECTRUM  
 63-LI-01 LINDENMEIER, MATSUMOTO+ H2•O/ POLYETHYLENE •CROSS SECTION EVALUATION  
 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 REYSER, KOPPEL D2•O/ H2•O/ POLYETHYLENE/ BE •THEORY/ EXPERIMENT/ LIQUID/ SOLID/ CROSS SECTION EVALUATION  
 65-HO-02 ROUTIN, 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-SU-01 SUMMERFIELD POLYETHYLENE •THEORY •SCATTERING CROSS SECTION FOR POLYETHYLENE  
 65-TA-01 TASUMI, SHIMANOUCHI POLYETHYLENE •THEORY/ MOLECULAR DYNAMICS/ DISPERSION RELATION  
 65-WH-01 WHITFMORE POLYETHYLENE/ GRAPHITE/ METHANE/ ZR-H/ Y-H/ LA-H •EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERI  
 66-KI-01 KIROUAC, MOORE+ H2•O/ POLYETHYLENE •EXPERIMENT/ DOUBLE DIFFERENTIAL CROSS SECTION  
 66-KI-03 KIROUAC, MOORE+ POLYETHYLENE •EXPERIMENT/ SCATTERING FUNCTION •29DC  
 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-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 TRVINO POLYETHYLENE •EXPERIMENT/ NEUTRON SPECTROSCOPY •TOF/ ORIENTED SAMPLE

- 66-WH-01 WHITTEMORE POLYETHYLENE ••EXPERIMENT  
67-HI-01 BISCHOFF, BRYANT+ POLYETHYLENE/ H2O/ 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, SHIMANOUCHI 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-RA-03 BANK, KRIMM POLYETHYLENE/ PARAFFINE ••FREQUENCY DISTRIBUTION/ SOLID/ EXPERIMENT ••INFRARED ABSORPTION SPEC  
68-FE-01 FELDKAMP, VENKATARAMAN+ POLYETHYLENE ••EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ CONST. ••  
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, SUMMERFIELD POLYETHYLENE ••FREQUENCY DISTRIBUTION/ EXPERIMENT/ SOLID ••TOF/ SPECIFIC HEAT  
69-CH-01 CHANG, SUMMERFIELD POLYETHYLENE ••SOLID/ THEORY/ FREQUENCY DISTRIBUTION  
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-SP-01 SPREYAK, KOPPEL POLYETHYLENE ••THEORY/ DISPERSION RELATION/ FREQUENCY DISTRIBUTION/ SIGMA (E) ••SCATTERING  
70-DO-02 DOI, SAKAMOTO+ POLYETHYLENE ••EXPERIMENT/ FREQUENCY DISTRIBUTION  
70-KI-03 KITAGAWA AR/ KR/ POLYETHYLENE ••REVIEW/ LATTICE DYNAMICS  
70-MA-01 MACHIDA POLYETHYLENE ••THEORY/ EFFECT OF END GROUP VIBRATION/ DISPERSION CURVES  
71-RE-02 BERGHMANS, SAFFORD+ POLYETHYLENE ••EXPERIMENT/ FREQUENCY SPECTRA/ LOW-FREQUENCY MOTION/ VARIOUS TEMPERATUR  
71-RR-07 BROADHURST, MOPSIK POLYETHYLENE ••THEORY/ FREQUENCY SPECTRA/ LINEAR POLYMER  
71-ZE-01 ZFRBI, PISERI+ POLYETHYLENE ••THEORY/ FREQUENCY SPECTRA/ PERFECT AND IRREGULAR POLYMER CHAIN  
72-MA-01 MARSH, MARTIN POLYETHYLENE ••THEORY/ PHONON DISPERSION/ PHONON SPECTRUM/ PROPAGATING TRANSVERSELY TO CHAIN  
72-SA-01 SAKAMOTO, IIZUMI+ K•H•F2/ (N•H4)2•S•O4/ POLYETHYLENE ••EXPERIMENT/ BF-FILTER-DETECTOR/ MOLECULAR DYNAMICS  
72-TW-01 TWISLETON, WHITE POLYETHYLENE ••EXPERIMENT/ PHONON DISPERSION/ PERPENDICULAR TO CHAIN AXES
5. 63 POLYETHYLENEOXIDE  
67-TR-01 TREVINO, BOUTIN POLYETHYLENE/ POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POLYOXYMETHYLENE ••REVIEW/ TOF SPECTRA
5. 64 POLYGLUTAMIC ACID  
66-RO-03 BOUJIN, WHITTEMORE POLYGLUTAMIC ACID ••EXPERIMENT/ FREQUENCY SPECTRUM/ MOLECULAR DYNAMICS  
68-WH-03 WHITTEMORE POLYPEPTIDE/ POLYGLUTAMIC ACID ••EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION
5. 65 POLYGLYCINE  
63-FU-01 FUKUSHIMA, IDEGUCHI+ POLYGLYCINE ••THEORY/ NORMAL VIBRATION  
68-GU-01 GUPTA, TREVINS+ POLYGLYCINE ••FREQUENCY DISTRIBUTION/ THEORY/ LATTICE DYNAMICS  
72-FA-01 FANCONI POLYGLYCINE ••THEORY/ DISPERSION RELATION ••2-DIMENSIONAL LATTICE VIBRATION
5. 66 POLYOXYMETHYLENE  
66-KI-04 KITAGAWA, MIYAZAWA POLYOXYMETHYLENE ••THEORY/ FREQUENCY DISTRIBUTION/ SOLID ••SPECIFIC HEAT

66-TR-02 TRVINO, BOUTIN POLYOXYMETHYLENE ..EXPERIMENT/ FREQUENCY SPECTRA/ LATTICE DYNAMICS  
 67-TR-01 TRVINO, BOUTIN POLYETHYLENEOXIDE/ POLYACRYLONITRILE/ POLYOXYMETHYLENE ..REVIEW/ TOF SPECTRA  
 72-RO-02 BOFRIO, CORNELL POLYOXYMETHYLENE ..THEORY/ DISPERSION CURVE/ FREQUENCY SPECTRA/ RAMAN EXPERIMENT

5. 67 POLYPEPTIDE  
 68-WH-03 WHITTEMORE POLYPEPTIDE/ POLYGLUTAMIC ACID ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION

5. 68 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  
 68-7F-02 ZERBI, PISERI POLYPROPYLENE ..FREQUENCY DISTRIBUTION/ DIFFERENTIAL CROSS SECTION/ THEORY..F.G.MET  
 71-YA-01 YASUKAWA, KIMURA+ POLYPROPYLENE ..EXPERIMENT/ TOF SPECTRUM/ FREQUENCY DISTRIBUTION

5. 69 POLYTRIFLUOROACETALDEHYDE  
 68-LO-02 LONGSTER, WHITE POLYACETALDEHYDE/ POLYTRIFLUOROACETALDEHYDE ..EXPERIMENT/ TOF/ NEUTRON SPECTRUM ..ROOM TEM

5. 70 POLYVINYL CHLORIDE  
 68-LY-02 LYNCH-JR, SUMMERFIELD POLYVINYL CHLORIDE ..THEORY/ LATTICE DYNAMICS/ DISPERSION RELATION/ FREQUENCY DISTRI

5. 71 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. 72 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. 73 PROPANE C3.H8  
 62-HR-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. 74 PROPANOL C3.H8.O  
 72-RO-01 RODRIGUES, VINHAS+ METHANOL/ ETHANOL/ PROPANOL/ BUTANOL/ ETHANEDIOL/ PROPANETRIOL ..EXPERIMENT/ TOTAL SIGM

5. 75 PROPIONIC ACID C3.H6.O2  
 70-CO-03 COLLINS, HAYWOOD FORMIC ACID/ ACETIC ACID/ PROPIONIC ACID/ OXALIC ACID/ MALONIC ACID/ SUCCINIC ACID/ MONOC
5. 76 PYRAZINE C4.H4.N2  
 68-GE-01 GERBAUX, HADNI PYRAZINE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ SOLID
5. 77 PYRIDINE  
 69-FI-01 FISCHER BENZENE/ CYCLOHEXANE/ CYCLOHEXANOL/ PYRIDINE/ H2.O/ HEXANE/ METHANOL/ ETHANOL/ ACETONE/ ACETIC
5. 78 RESIN  
 66-GR-01 GRAFFSTEIN, RZESSOT+ RESIN ..EXPERIMENT ..NEUTRON DIFFUSION PARAMETER
5. 79 RUBBER  
 68-TU-02 TUNKELO, BAJOREK+ RUBBER ..EXPERIMENT/ TOF/ FREQUENCY DISTRIBUTION
5. 80 TEFLON  
 69-LA-02 LA GARDÉ, PRASK+ TEFLON ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION CURVE  
 73-PI-01 PISERI, POWELL+ TEFLON ..EXPERIMENT/ CALCULATION/ PHONON DISPERSION
5. 81 TERPHENYL C18.H14  
 62-RR-03 BRÜGGER TERPHENYL ..SCATTERING LAW/ EXPERIMENT/ SOLID/ LIQUID ..29DC/ 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. 82 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. 83 TRICHLOROMETHANE C.H3.CL3  
 68-O-01 O'REILLY C.H3.CL3/ C6.H5.CL/ H.F/ H.CL/ N.H3/ H2.O ..CORRELAION FUNCTION/ MOLECULAR ROTATIONS/ LIQU
5. 84 TRIFLUOROETHANE C.H3.C.F3

JAERI M 5395

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

6 ADSORPTIONS AND SOLUTIONS

6. 1 ALCOHOL-WATER  
 70-FR-02 FRANKS, RAVENHILL+ ALCOHOL-WATER ..EXPERIMENT/ NEUTRON SPECTROSCOPY ..DIFFUSION OF WATER IN AQUEOUS SOLUTI
6. 2 AMMONIA-ZEOLITE  
 66-DO-04 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP
6. 3 AMMONIUM FLUORIDE-WATER  
 65-ST-04 STILLER H.F-H2.O/ N.H4.F-H2.O ..EXPERIMENT/ SOLUTION/ BE-FILTER DETECTOR SPECTRUM N.H4.F-H2.O
6. 4 DIETHYL DIETHYLENE GLYCOL-CARBON DISULFI  
 71-DE-03 DENIZ, JANNIK+ ETHYL ETHER-CARBON DISULFIDE/ DIETHYL DIETHYLENE GLYCOL-CARBON DISULFIDE ..THEORY/ EXPERIME
6. 5 ETHYL ETHER-CARBON DISULFIDE  
 71-DE-03 DENIZ, JANNIK+ ETHYL ETHER-CARBON DISULFIDE/ DIETHYL DIETHYLENE GLYCOL-CARBON DISULFIDE ..THEORY/ EXPERIME (C2.H5)2.O-C.S2
6. 6 HYDROGEN FLUORIDE-WATER  
 65-ST-04 STILLER H.F-H2.O/ N.H4.F-H2.O ..EXPERIMENT/ SOLUTION/ RF-FILTER DETECTOR SPECTRUM H.F-H2.O
6. 7 METHANE-QUINOL  
 66-DO-04 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP C.H4-C6.H4.(O.H)2
6. 8 METHANOL-QUINOL  
 66-DO-04 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP C.H4.O-C6.H4.(O.H)2
6. 9 METHYL CYANIDE-QUINOL  
 66-DO-04 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE ..EXP C.H3.C.N-C6.H4.(O.H)
6. 10 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. 11 WATER-BERYL H2.O-BE3.AL2.SI6.O18
- 65-RO-05 BOUTIN, PRASK+ WATER-BERYL .EXPERIMENT/ TOF SPECTRA/ ADSORBED WATER
6. 12 WATER-QUINOL H2.O-C6.H4.(O.H)2
- 66-DO-04 DOWNES, WHITE+ METHANE-QUINOL/ METHYL CYANIDE-QUINOL/ METHANOL-QUINOL/ WATER-QUINOL/ AMMONIA-ZEOLITE .EXP
6. 13 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

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- 63-BR-01 BRAJOVIC, V./ ROUTIN, H./ SAFFORD, G.J./ PALEVSKY, H.  
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NH4.P.F6/ NH4.I/ (NH4)2.S2.O8/ NH4.S.O3.F ..EXPERIMENT/  
TOF SPECTRA/ MOLECULAR DYNAMICS
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- 63-CO-07 COWLEY, R.A.  
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INELASTIC SCATTERING OF NEUTRONS IN SOLIDS AND LIQ  
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L/ LIQUID
- 63-DO-01 DOLLING, G.  
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- 63-EG-01 EGELSTAFF, P.A./ HAYWOOD, B.C./ THORSON, I.M.  
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M/ INTERFERENCE TERM
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NAMICS
- 63-HA-04 HAYWOOD, B.C./ THORSON, I.M.  
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SIGMA(E-E-PRIME,THETA)/ EXPERIMENT/ THEORY/ GAS/ LIQU  
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C.H4/ N.H3/ H2.S/ H2.O ..SIGMA(E)/ EXPERIMENT/ LIQUID
- 63-JA-03 JANIK, J.A./ RZANY, H./ SCIESINSKI, J.
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- 63-KA-01 KADANOFF, L./ MARTIN, P.C.  
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- 63-KO-01 KOKKEDEF, J.J.J.  
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- 63-MA-01 MACDOUGALL, J.D.  
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COMPUTER-CODES ..SIGMA(E-E-PRIME)/ SCATTERING LAW/ GAS/  
LIQUID/SAOLID/ CROSS SECTION EVALUATION

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- 63-MI-02 MIKKE, K./ KROH, A.  
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N.H4.CL/ N.H4.BR/ N.H4.F/ N.H4.N.O3 \*\*LATTICE DYNAMICS/  
EXPERIMENT \*\*INVERTED FILTER METHOD
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- 63-MU-01 MUSGRAVE, M.J.P.  
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- 63-PA-02 PARKER, K.  
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Y DISTRIBUTION OF VANADIUM  
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- 63-RA-01 RAHMAN, A.  
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- AR ..THEORY/ LIQUID/ SCATTERING THEORY ..84DK
- 68-AN-02 ANDRUS, W.S./ MÜETHER, 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./ MÜETHER, 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./ MÜETHER, 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.4  
62 (1968)
- AR ..EXPERIMENT/ TOF/ QUASI-ELASTIC
- 68-AN-05 ANDRUS, W.S./ MÜETHER, 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/ TEMPERATU  
RE DEPENDENCE/ 87.97.111.124 DEG.KELVIN/ WIDTH VS. MOME  
NTUM TRANSFER
- 68-AR-01 ARDENTE, V./ NARDELLI, G.F./ REATTO, L.  
SCATTERING OF SLOW NEUTRONS AND MOLECULAR DYNAMICS IN L  
IQUID 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 CALCULAT  
ING REACTOR PARAMETERS  
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA,  
V.1, P.467 (1968)
- BIPHENYL/ 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)
- H2O ..SIGMA (E)/ NEUTRON SPECTRUM/ THEORY ..MODIFIED N  
ELKIN MODEL
- 68-BA-01 BAJOREK, A./ NATKANIEC, J./ PARLINSKI, K./ HRYNKIE  
WICZ, 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/ 1BR PULSED REACTOR, DUBNA/ 120DK/ 80DK
- 68-BA-02 BAJOREK, A./ JANIK, J.A./ JANIK, J.M./ NATKANIEC,  
J./ PARLINSKI, K./  
INVESTIGATION OF THE DYNAMICS OF WATER MOLECULES IN CRY  
STALLO-HYDRATES BY NEUTRON INELASTIC SCATTERING  
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.143-P.1  
58 (1968)
- H2O ..EXPERIMENT/ MOLECULAR DYNAMICS ..WATER IN CRYSTA  
L
- 68-BA-03 BANK, M.I./ KRIMM, S.  
LATTICE-FREQUENCY STUDIES OF CRYSTALLINE AND FOLD STRUC  
TURE 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 C  
RITICAL POINT  
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.615-P.6  
22 (1968)  
C-02/ C-02 ••EXPERIMENT ••CRITICAL SCATTERING
- 68-BE-01 BENEDEK, G./ NARDELLI, G.F.  
LATTICE DYNAMICS OF IMPERFECT ALKALI HALIDES  
J. CHEM. PHYS., V.48, P.2242 (1968)  
NA•CL/ K•CL ••DISPERSION RELATION/ THEORY/ LATTICE DYNA  
MICS
- 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./ CARRI  
VEAU, G.W./ GOZANI, T./  
INTEGRAL NEUTRON THERMALIZATION  
GA-0449 (1968)  
BIPHENYL/ ZR-H/ U•O2 ••LATTICE DYNAMICS/ SCATTERING FUN  
CTION
- 68-BE-04 BEYSTER, J.R./ BORGONOV, G.M./ CARRIVEAU, G.W.  
ANGULAR SCATTERING BY C•H2, ZR-H1.85 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 RELA  
TION/ FREQUENCY DISTRIBUTION ••RIGID ION MODEL/ SHELL M  
ODEL
- 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./ KRUMHANSL, 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 BRUGGER, R.M.  
SLOW NEUTRON SCATTERING FROM WATER  
NUCL. SCI. ENG., V.33, P.187 (1968)  
H2•O ••SCATTERING FUNCTION/ EXPERIMENT/ LIQUID ••TOF/ 1  
60C
- 68-BR-03 BRUGGER, R.M./ PLUMMER, J.P.  
SLOW NEUTRON SCATTERING FROM WATER  
IN-1141 (1968)  
H2•O ••EXPERIMENT/ SCATTERING FUNCTION

- 68-BR-04 BRUN, T.O./ SINHA, S.K./ SWENSON, C.A./ TILFORD, C.  
R.  
LATTICE DYNAMICS OF HCP HE4 BY INELASTIC NEUTRON SCATTERING  
RING  
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.339-P.342 (1968)  
HE \*\*EXPERIMENT/ DISPERSION RELATION \*\*4.2DK
- 68-BU-01 BULAVIN, L.A./ VORONEL, A.V./ OSTANEVICH, Y.M./ SIMONIN, A.P./ STRELKOV, A.V.  
SELF-DIFFUSION COEFFICIENT OF ETHANE NEAR THE LIQUID-GAS  
TRANSITION POINT  
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.525-P.533 (1968)  
ETHANE \*\*EXPERIMENT/ QUASI-ELASTIC/ LIQUID/ GAS
- 68-BU-02 BURGMAN, J.O./ SCIESINSKI, J./ SKOELD, K.  
PROTON DYNAMICS IN WATER AND ICE STUDIED BY INELASTIC SCATTERING OF SLOW NEUTRONS  
PHYS. REV., V.170, P.808 (1968)  
H2O \*\*SOLID/ LIQUID/ EXPERIMENT/ FREQUENCY DISTRIBUTION  
N \*\*COLD NEUTRON TOF/ 273.4DK/ 268.7DK
- 68-BU-03 BUYERS, W.J.L./ COWLEY, R.A.  
NORMAL MODES OF VIBRATION OF MIXED K<sub>2</sub>BR/RB<sub>2</sub>BR CRYSTALS  
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.43-P.46 (1968)  
K<sub>2</sub>BR/ RB<sub>2</sub>BR \*\*EXPERIMENT/ LATTICE DYNAMICS \*\*MIXED CRYSTALS
- 68-BU-04 BUYERS, W.J.L./ COWLEY, R.A./ PAUL, G.L./ COCHRAN, W.  
NEUTRON SCATTERING NEAR THE FERROELECTRIC TRANSITION IN K<sub>2</sub>D<sub>2</sub>P<sub>2</sub>O<sub>7</sub>  
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.267-P.274 (1968)  
K<sub>2</sub>H<sub>2</sub>P<sub>2</sub>O<sub>7</sub> \*\*EXPERIMENT/ QUASI-ELASTIC SCATTERING \*\*34DC  
-49.6DC
- 68-BU-05 BUYERS, W.J.L./ SMITH, T.  
DEBYE-WALLER FACTORS OF ALKALI HALIDES  
J. PHYS. CHEM. SOLIDS, V.29, P.1051-P.1057 (1968)  
K<sub>2</sub>CL/ K<sub>2</sub>BR/ NA<sub>2</sub>I/ NA<sub>2</sub>CL/ NA<sub>2</sub>BR/ NA<sub>2</sub>F \*\*THEORY/ DEBYE-WALLER FACTOR \*\*TEMPERATURE DEPENDENCE/ 0-900DK
- 68-BU-06 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/ C<sub>2</sub>F<sub>6</sub> \*\*SCATTERING THEORY
- 68-CA-03 CARPENTER, J.M./ LURIE, N.A.  
COHERENT INELASTIC NEUTRON SCATTERING BY MOLECULAR GASES. MEASUREMENTS ON C<sub>2</sub>F<sub>6</sub> AND ROTATION-VIBRATION COUPLING CALCULATIONS FOR C<sub>2</sub>D<sub>4</sub>  
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.205-P.222 (1968)  
C<sub>2</sub>F<sub>6</sub>/ C<sub>2</sub>H<sub>4</sub> \*\*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)  
HEXAMETHYLENETETRAAMINE/ ADAMANTANE/ N<sub>2</sub>H<sub>4</sub>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.282

- 80 (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 ABO  
VE 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 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.139 (1968)  
THEORY-OF-SOLIDS • LATTICE DYNAMICS • FORCE CONSTANTS
- 68-CO-07 COPLEY, J.R.D./ BROCKHOUSE, B.N./ CHEN, S.H.  
LATTICE DYNAMICS OF RUBIDIUM  
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.209-P.214 (1968)  
RB • EXPERIMENT/ DISPERSION RELATION • 120DK
- 68-CO-08 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-09 COWLEY, R.A.  
NEUTRONS, FREE ELECTRONS AND HIGH MAGNETIC FIELDS  
NEUTRON INELASTIC SCATTERING, IAEA, V.1, P.141-P.148 (1968)  
NEUTRON-SCATTERING-IN-SOLIDS • THEORY/ LATTICE DYNAMICS • MAGNETIC FIELD
- 68-CO-10 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.288 (1968)
- 88 (1968)  
K•RR/ SR•TI•O3 • THEORY/ EXPERIMENT/ LATTICE DYNAMICS/ ELASTIC CONSTANT • NEUTRON MEASUREMENT/ ULTRASONIC MEASUREMENT
- 68-CO-11 COWLEY, R.A.  
A CALCULATION OF THE NEUTRON SCATTERING BY LIQUIDS AS MEASURED WITH THE COLD NEUTRON TIME-OF-FLIGHT TECHNIQUE  
AECL-3189, P.0-P.11 (1968)  
NEUTRON-SCATTERING-IN-FLUIDS • TIME-OF-FLIGHT/ COLLECTIVE MODE
- 68-DA-01 DAHLBORG, U./ FRIBERG, B./ LARSSON, K.E./ PIKMAJER, 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./ CHATRAPORN, 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)  
H2O • 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/ INEL

- ASTIC 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 BY MEANS OF CONTINUED FRACTIONS  
PHYSICA, V.39, P.413 (1968)  
THEORY-OF-SOLIDS ..FREQUENCY DISTRIBUTION/ THEORY/ SOLID ..CONTINUED FRACTION/ LINEAR CHAIN
- 68-DE-04 DESAI, R.C./ YIP, S.  
DYNAMICAL CORRELATIONS IN SIMPLE LIQUIDS AND COLD-NEUTRON 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./ VIJAYARAGHAVAN, P.R./ WILKINSON, M.K.  
LATTICE DYNAMICS OF LITHIUM FLUORIDE  
PHYS. REV., V.168, P.970-P.979 (1968)  
Li:F ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ 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 AND CYANAMIDE-D2  
J. CHEM. PHYS., V.48, P.4675 (1968)  
CYANAMIDE ..FREQUENCY DISTRIBUTION/ EXPERIMENT/ MOLECULAR 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.235 (1968)  
METHANE ..EXPERIMENT/ SOLID/ LIQUID/ THEORY/ MOLECULAR DYNAMICS ..METHANE IN ARGON
- 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 SPECTRUM
- 68-ER-01 EREMEEV, I.P./ MOSTOVOI, V.I./ SADIKOV, I.P./ CHEYSCHOV, A.A.  
STUDY OF INELASTIC NEUTRON SCATTERING IN GRAPHITE AT VARIOUS TEMPERATURES (IN RUSSIAN)  
NEUTRON THERMALIZATION AND REACTOR SPECTRA, IAEA, V.1, P.343 (1968)  
GRAPHITE ..SCATTERING FUNCTION/ EXPERIMENT ..15DC/ 490DC / 1000DC
- 68-ES-01 ESCH, L.J./ MOORE, W.E./ YEATER, M.L.  
HIGH TEMPERATURE WATER SCATTERING LAW MEASUREMENT  
WASH-1124, P.162 (1968)  
H2O ..LIQUID/ EXPERIMENT/ FREQUENCY DISTRIBUTION/ SCATTERING FUNCTION
- 68-FA-01 FAURE, P./ KAHANE, A.  
INTERPRETATION OF OPTICAL SPECTRA OF LOW FREQUENCY OF LICE BY MEANS OF A DYNAMIC MODEL OF CRYSTALLINE LATTICE (IN FRENCH)  
J. PHYS., PARIS, V.28, P.944 (1968)  
H2O ..FREQUENCY DISTRIBUTION/ DISPERSION RELATION/ LATTICE DYNAMICS/ THEORY/ SOLID
- 68-FE-01 FELDKAMP, L.A./ VENKATARAMAN, G./ KING, J.S.  
DISPERSION RELATION FOR SKELETAL VIBRATIONS IN DEUTERATED POLYETHYLENE  
NEUTRON INELASTIC SCATTERING, IAEA, V.2, P.159-P.165 (1968)  
POLYETHYLENE ..EXPERIMENT/ LATTICE DYNAMICS/ DISPERSION RELATION/ CONST:..0
- 68-FL-01 FLEURY, P.A./ SCOTT, J.F./ WORLOCK, J.M.  
SOFT PHONON MODES AND THE 110DK PHASE TRANSITION IN SrTiO3  
PHYS. REV. LETT., V.21, P.16 (1968)  
SR.Ti.O3 ..RAMAN SPECTROSCOPY
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RIBUTION/ THEORY/ SOLID/ LATTICE DYNAMICS ••ALKALI META  
L/ OPW METHOD/ DIELECTRIC FUNCTION/ HARTREE-FOCK-SLATER  
METHOD/ EXCHANGE POTENTIAL
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 ENCE/ SPECIFIC HEAT
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 C CHARGE
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STRIBUTION/ SPECIFIC HEAT/ DEBYE TEMP./ ROOM TEMP.
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/ MEAN-SQUARE DISPLACEMENT
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ING/ PHONON DENSITY/ DEBYE-TEMP.
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NB3·SR  
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LATTICE DYNAMICS OF RUTILE  
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TI-02 ••EXPERIMENT/ DISPERSION CURVE/ NEUTRON SCATTERING / THEORY/ FREQUENCY SPECTRUM ••TEMPERATURE DEPENDENCE
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(NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>4</sub> ••FAR INFRARED EXPERIMENT
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LATTICE DYNAMICS OF LI<sub>2</sub>H, LI<sub>2</sub>F AND LI<sub>2</sub>CL  
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LI<sub>2</sub>H/ LI<sub>2</sub>F/ LI<sub>2</sub>CL ••THEORY/ PHONON DISPERSION/ STATE DENSITY
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GE-SI ••EXPERIMENT/ LOCAL MODE/ IMPURITY EFFECT
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NEUTRON SCATTERING INVESTIGATION OF IMPURITY PHONON MODES IN GE(9.2 PERCENT SI)  
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SI.H4 ..EXPERIMENT/ TOF SPECTRA/ GAS AND LIQUID STATE
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AG.BR ..THEORY/ PHONON DISPERSION/ STATE DENSITY/ DEFURMATION DIPOLE MODEL
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J. PHYS., C, LONDON, V.5, P.1317-P.1334 (1972)  
V.O2 ..THEORY/ METAL-NONMETAL PHASE TRANSITION/ SOFT PHONON
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NORMAL MODES OF VIBRATION IN CU.I  
PHYS. REV. LETT., V.28, P.964-P.966 (1972)  
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BNL-17121 (1972)  
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BNL-17120 (1972)  
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 PHONON DISPERSION IN ZN-SE  
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 ZN-SE .RAMAN SPECTRA/ MODEL FITTING/ STATE DENSITY/ SP  
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 JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON  
 SCATTERING, P.98-P.102 (1972)  
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 G  
 NEUTRON INELASTIC SCATTERING, IAEA, P.859-P.865 (1  
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 REVIEW-ARTICLES .SUMMARR OF THE SYMPOSIUM
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 P-AZOXYANISOLE .EXPERIMENT/ QUASI-ELASTIC SCATTERING/  
 NEMATIC LIQUID CRYSTAL/ 396-399K/ EXTERNAL MAGNETIC FIL  
 ED
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 NEUTRON INELASTIC SCATTERING, IAEA, P.277-P.286 (1  
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 SCATTERING-THEORIES .THEORY/ POLYMER CHAINS IN SOLUTIO  
 N/ DIFFUSIVE MOTION
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 NEUTRON INELASTIC SCATTERING, 1972, IAEA, P.29-P.3  
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 TENTIAL
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 NEUTRON SCATTERING BY VIBRATIONS IN A MASS DISORDERED L  
 ATTICE, Ni(55 PERCENT) PD(45 PERCENT)  
 NEUTRON INELASTIC SCATTERING, IAEA, P.79-P.84 (197  
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 NI-PD .EXPERIMENT/ PHONON DISPERSION/ ALLOY/ MASS EF  
 FECT
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 THE ELASTIC CONSTANTS FOR SINGLE-CRYSTAL BISMUTH AND TI  
 N FROM ROOM TEMPERATURE TO THE MELTING POINT  
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 BI/ SN .EXPERIMENT/ ELASTIC CONSTANT
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 COOPERATIVE YAHN-TELLER EFFECT (IN JAPANESE)  
 JAERI-M-4841, PROC. 4TH CONF. ON INELASTIC NEUTRON



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THEORY-OF-SOLIDS • JAHN-TELLER EFFECT/ PHONON
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UNTERSUCHUNG DER MOLEKUELROTATION IM FESTEN METHAN DURCH  
H INELASTISCHE NEUTRONENSTREUUNG  
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C.H4 • EXPERIMENT/ SOLID/ ROTATING CRYSTAL SPECTROMETER  
/ SIGMA (E, E-PRIME, THETA)
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NEUTRON INELASTIC SCATTERING, IAEA, P.841-P.849 (1  
972)  
METHANE • EXPERIMENT/ SOLID METHANE/ SMALL ENERGY PEAKS
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A DENSE FLUID  
J. PHYS., C, LONDON, V.5, P.1165-P.1182 (1972)  
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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
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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
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LATTICE VIBRATIONS IN AMMONIUM CHLORIDE IN THE LOW-TEMP  
ERATURE ORDERED PHASE  
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/ RIGID-MOLECULAR MODEL/ ORDERD PHASE
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BNL-17101 (1972)  
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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)
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QUASIELASTIC SCATTERING OF NEUTRONS FOR INVESTIGATION O  
F UNPERIODICAL ATOMIC MOTIONS IN LIQUID SELENIUM  
JUL-829-FF (1972)  
SE • EXPERIMENT/ QUASIELASTIC SCATTERING/ LIQUID STATE
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LATTICE DYNAMICS OF SODIUM - COMPARISON OF DE LAUNAY AN  
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ON • ANGULAR FORCE
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A GENERALIZED SHELL MODEL FOR SR.F2 AND BA.F2  
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SR.F2/ BA.F2 • THEORY/ PHONON DISPERSION/ GENERALIZED S  
HELL MODEL/ VIBRONIC SPECTRA
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LATTICE DYNAMICS AND THE HEAT CAPACITY OF INDIUM  
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IN • THEORY/ PHONON DYSPERSION/ DEBYE TEMPERATURE
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LATTICE DYNAMICS OF RUBIDIUM HALIDES  
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RB.F/ RB.CL/ RB.BR/ RB.I • THEORY/ PHONON DISPERSION/ S  
HELL MODEL
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CS.CL/ CS.BR/ CS.I • CALCULATION/ PHONON DISPERSION/ TH  
REE BODY FORCE SHELL MODEL
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ROTATIONAL MOTIONS IN THE PLASTIC CRYSTAL PHASES OF C6  
F12, C6.F11H AND C6.F9.H3  
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FLUORINATED CYCLOHEXANE • EXPERIMENT/ MOLECULAR ROTATIO  
N/ QUASI-ELASTIC SCATTERING

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OF VITREOUS SILICA AND ALPHA QUARTZ  
NEUTRON INELASTIC SCATTERING, IAEA, P.501-P.513 (1  
972)
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ON SPECTRA
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ERIUM OXIDE  
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TRANSLATIONAL LINE NARROWING IN PRESSURIZED HYDROGEN GA  
S  
NEUTRON INELASTIC SCATTERING, IAEA, P.445-P.459 (1  
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NDENCE/ 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)
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INTERACTION/ GREEN FUNCTION
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LATTICE VIBRATION OF POLYETHYLENE  
J. PHYS., C, LONDON, V.5, P.2309-P.2316 (1972)
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UM/ PROPAGATING TRANSVERSELY TO CHAIN AXIS
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LS, AND NORMAL FLUID  
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CS AND THERMODYNAMICS
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PROPERTIES OF THE LOW-DENSITY MEMORY FUNCTION  
PHYS. REV. A, V.5, P.2545 (1972)
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- 72-MA-04 MAZENKO, G.F./ WEI, Y.C./ YIP, S.  
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PHYS. REV. A, V.6, P.1981-P.1995 (1972)
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XIDE  
J. CHEM. PHYS., V.56, P.5712-P.5721 (1972)
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AND LIQUID PHASE/ ANHARMONICITY/ CORIOLIS CONSTANTS
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VIBRATIONAL SPECTRUM AND FORCE FIELD OF XENON TETROXIDE  
J. CHEM. PHYS., V.57, P.3062 (1972)
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NICITY CORRECTIONS/ INFRARED AND RAMAN SPECTRA
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SOFT ACOUSTIC MODE AT THE COOPERATIVE JAHN-TELLER PHASE  
TRANSITION IN  $D_{4h}$   
PHYS. REV. LETT., V.28, P.607-P.610 (1972)
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FIELD THEORY/ CRITICAL FLUCTUATION
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TING'S APPROACH  
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ON
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LATTICE DYNAMICS AND THE SOE CONSTANTS OF THALLIUM AT 7  
7 AND 296K  
SOLID STATE COMMUN., V.10, P.701-P.704 (1972)
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NSTANT
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LATTICE DYNAMICS, THIRD ORDER ELASTIC CONSTANTS AND THE  
RMAL EXPANSION OF CADMIUM  
J. PHYS. CHEM. SOLIDS, V.33, P.2129-P.2139 (1972)
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TANT
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SCIESINSKI, J./  
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LI2S:O4\*H2O  
INP-791/PS (1972)
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PHYS. REV. A, V.6, P.1214-P.1217 (1972)  
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CONF-720833-10 (1972)  
HE EXPERIMENT/ HIGH ENERGY NEUTRON SCATTERING
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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
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CR EXPERIMENT/ PHONON DISPERSION/ 300DK TO 503DK
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A SYSTEMATIC APPROACH TO THE PROBLEMS OF RANDOM LATTICE S<sub>2</sub> - A DOUBLE-SITE APPROXIMATION AND AN APPLICATION TO THE CALCULATION OF FREQUENCY SPECTRA OF DISORDERED SYSTEMS  
PROGR. THEOR. 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.  
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H2.O/ D2.O/PAIR CORRELATION/ EXPERIMENT
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PHYS. REV. B, V.5, P.3151-P.3160 (1972)  
GE EXPERIMENT/ CALCULATION/ PHONON DENSITY
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NEUTRON INELASTIC SCATTERING, IAEA, P.111-P.117 (1972)  
H EXPERIMENT/ PHONON DISPERSION/ SOLID PARAHYDROGEN
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INELASTIC-NEUTRON SCATTERING FROM BCC HE-4  
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- 72-PO-01 POLLOCK, E.L.  
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C.O2 •EXPERIMENT/ PHONON DISPERSION/ MODEL CALCULATION
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ON/ DEBYE TEMPERATURE •METAL/ TWO PARAMETER MODEL POTE  
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ON •PSEUDOPOTENTIAL
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PROXIMATION/ SOLID •ROOT MEAN SQUARE DISPLACEMENTS/ IC  
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AND NEUTRON SCATTERING
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P-AZOXYANISOLE •EXPERIMENT/ NEUTRON DIFFRACTION/ PHASE  
DIAGRAM
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IBUTION FUNCTION •PHASE TRANSITION

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H<sub>2</sub>C<sub>2</sub>N .CALCULATION/ PHONON DISPERSION/ FREQUENCY SPECTRUM/ PHASE CHANGE/ SOFT PHONON
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NA<sub>3</sub> .EXPERIMENT/ THEORY/ TIME OF FLIGHT/ DISPERSION RELATION/ FREQUENCY/ DISTRIBUTION
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Cs<sub>2</sub>Cl<sub>2</sub> .THEORY/ LOCALIZED MODE/ GAP MODE/ H<sub>2</sub> D, K IMPURITY
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- 72-RU-01 RUVALDS, J./ TUETTO, I./ ZAWADOWSKI, A.  
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JAERI-M-5053 (1972)

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SFER  
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ASE TRANSITION
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, II: HEXAGONAL ICE  
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DISTRIBUTION ..ICE/ DISORDERED SYSTEM
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, I: A TWO DIMENSIONAL MODEL  
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THEORY-OF-SOLIDS ..THEORY/ SOLID/ LATTICE DYNAMICS/ FRE
- QUENCY SPECTRUM/ BORN-VON KARMAN MODEL ..DISORDERED SYS  
TEM
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PHONON DISPERSION IN ALKALI METALS. 2  
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LI/ NA/ K/ RB/ CS ..THEORY/ DISPERSION CURVE
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PHYS. REV. B, V.6, P.1589-P.1596 (1972)  
MGO ..THEORY/ SHELL MODEL/ PHONON DISPERSION/ SPECIFIC  
HEAT
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P.V.  
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NEUTRON INELASTIC SCATTERING, IAEA, P.61-P.70 (1972)
- SB \*\*EXPERIMENT/ PHONON DISPERSION/ FIVE-NEIGHBOUR MODE LINE FITTING
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- SR, TI-03 \*\*EXPERIMENT/ PHONON DISPERSION/ VARIOUS MODEL FITTING/ FREQUENCY DISTRIBUTION/ SPECIFIC HEAT
- 72-ST-04 STUMP, N./ GISSLER, W./ RUBIN, R.  
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TRANSITION TEMPERATURE (IN JAPANESE)  
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SCATTERING, P.103-P.105 (1972)  
NEUTRON-SCATTERING-IN-SOLIDS .THEORY/ NEUTRON SCATTERING  
BY PHONON/ PHASE TRANSITION
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CAN. J. PHYS. V.50, P.2807-P.2814 (1972)  
NaH<sub>2</sub>Cl .THEORY/ PHONON DISPERSION/ RIGID ION, SHELL MODEL/  
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- 72-TO-01 TOKUNAGA, M.  
EFFECT OF DIPOLE-DIPOL INTERACTION ON THE DISPERSION RELATION  
IN FERROELECTRICS OF PEROVSKITE STRUCTURE (IN JAPANESE)  
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SCATTERING, P.94-P.97 (1972)  
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- 72-TO-02 TONG, B.Y.  
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