

Survey of Superconductive Materials and Critical Evaluation of Selected Properties

B. W. Roberts

General Electric Research and Development, Box 8, Schenectady, N.Y. 12301

This publication includes all data on superconductive materials intercepted through March 1975. Data on the bulk elements have been critically evaluated, and values on alloys, compounds, and other forms have been selected and condensed to indicate the probable value and spread of values observed. Proven non-superconductors have been noted. Conflict in data values has been noted. All data have been keyed to the literature in one or more of the tables. Special subdivisions are presented for superconductive materials with organic constituents and for those based on semiconductive materials. The properties presented are superconductive critical temperature, critical magnetic fields, material state and composition including crystal-structure type where noted, a key to thin-film forms, and the presence of thermodynamic data (generally the electronic specific heat, γ , and Debye θ). High-magnetic-field superconductors are noted with listing of H_{c1} , H_c , H_{c2} , and H_{c3} plus the temperature of observation T_{obs} .

Key words: Bibliography; composition; critical fields; critical temperature; crystallographic data; low temperature; superconductive materials; superconductivity.

Contents

	Page
1. Introduction.....	581
2. General Properties of Superconductors.....	582
3. Metallurgical and Solid-State Aspects of Superconductive Materials.....	583
4. How to Use the Data Tables.....	584
5. Symbols and Abbreviations.....	585
6. Acknowledgments.....	586
Table 1(a). Properties of the Superconductive Elements in Bulk Form.....	588
Table 1(b). Properties of Thin Films of the Superconductive Elements.....	589
Table 1(c) Properties of the Superconductive Elements under or after Application of High Pressure.....	589
Table 2. Properties of Superconductive Materials (Including Proven Non-Superconductors).....	591
Table 3. Properties of Superconductive Materials with Organic and Related Constituents.....	731
Table 4. Properties of Semiconductive Superconductive Materials.....	735
Table 5. Critical Magnetic Fields H_{c1} , H_{c2} , and H_{c3} of Superconductive Materials (Mainly Type II).....	739
7. Bibliography.....	766
8. Reviews and Books Centering upon Superconductive Materials.....	792
9. Author Index.....	795

Copyright © 1976 by the U.S. Secretary of Commerce on behalf of the United States. This copyright will be assigned to the American Institute of Physics and the American Chemical Society, to whom all requests regarding reproduction should be addressed.

1. Introduction

The world knowledge of superconductive materials has become voluminous and complex in the last fifteen years, driven by both scientific curiosity and technological application and anticipation of greater general practical usage. This survey attempts to cover all known superconductive materials, including special forms such as very thin films deposited at very low temperatures and finely subdivided superconductors such as those dispersed in glass. The coverage has been comprehensive and either notes conflicting findings or includes them in the references. The user would be wise to explore the first few references to a material that has been multiply studied. A single reference implies a single measurement.

All data previously compiled and published in General Electric Corporate Research and Development reports MB-36 (August 1959), 61-RL-2744M (June 1961), 63-RL-3252 M (March 1963); Progress in Cryogenics IV, 160-231 (1964) (also published in "New Materials and Methods of Investigating Metals and Alloys," Editor I. I. Kornilov, Baikov Institute of Metallurgy, Moscow, 1966, pp. 1-98); National Bureau of Standards Technical Notes 408 (September 1966), 482 (May 1969), 724 (June 1972), 825 (April 1974), and subsequent additional data collected by the Superconductive Materials Data Center have been included.

Much of the world literature was covered through various translation paths including the author's limited skills. Errors introduced inadvertently through translation and all others are greatly regretted by the author, and hopefully readers will point these out to be corrected in the future.

2. General Properties of Superconductors¹

The historically first observed and most distinctive property of a superconductive body is the near total

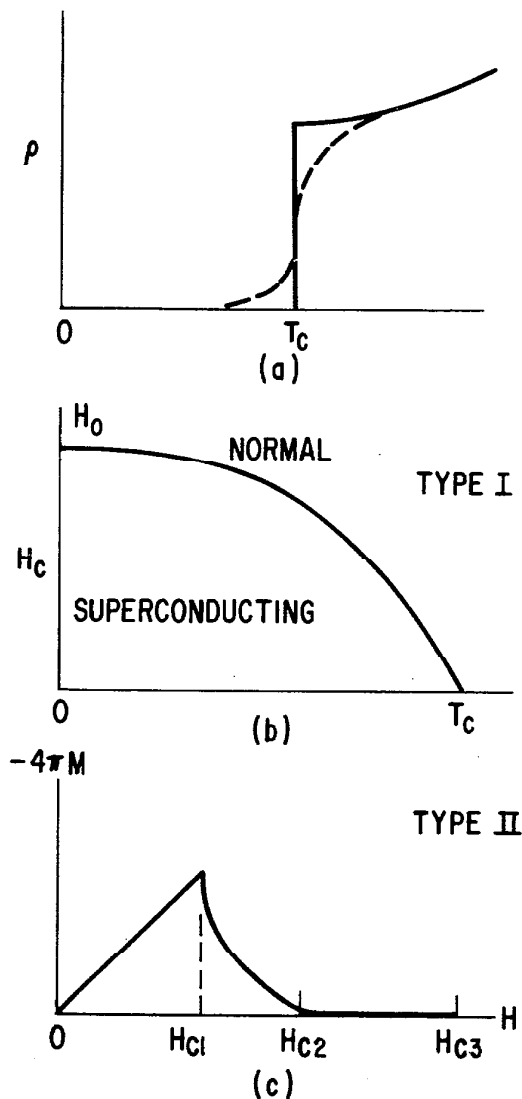


FIGURE 1. Physical properties of superconductors. (a) Resistivity versus temperature for a pure and perfect lattice (solid line). Impure and/or imperfect lattice (dashed line). (b) Magnetic field-temperature dependence for Type I or "soft" superconductor. (c) Schematic magnetization curve for "hard" or Type II superconductor.

¹ The physics, chemistry, and metallurgy of superconductors is a complex and sometimes subtle subject. Therefore, readers are referred to the many texts and review articles listed in section 8 for complete and additional information. "Superconductivity" by E. A. Lynton (Methuen and Co., London; John Wiley and Co., New York) is a brief and useful introduction. For additional general information see "Superconducting Materials" by E. M. Savitskii, V. V. Baron, Yu. V. Efimov, M. I. Bychkova, and L. F. Myzenkova (Plenum Press, New York-London, 1973); an updated translation of "Metallovedenie Sverkhprovodyashchikh Materialov" (Nauka Press, Moscow, 1969); "The Science and Technology of Superconductivity" Vol. 1 and 2, edited by W. D. Gregory, W. N. Mathews, Jr., and E. A. Edelsack (Plenum, New York-London, 1973) and "The Effect of Metallurgical Variables on Superconducting Properties", J. D. Livingston and H. W. Schadler in *Progr. Materials Sci. (G.B.)*, Vol. 12, No. 3, 185-274 (1964). For theoretical aspects start with "Superconductivity", Vols. 1 and 2, edited by R. D. Parks (Marcel Dekker, New York, 1969).

loss of resistance at a critical temperature T_c characteristic of each material. Figure 1 illustrates schematically, two types of possible transitions. The sharp vertical discontinuity is indicative of that found for a single crystal of a very pure element or one of a few well annealed alloy compositions. The broad transition, illustrated by broken lines, is typical of the transition shape seen for materials which are inhomogeneous or contain unusual strain distributions. The temperature interval, over which the transition between the normal and superconductive states takes place, may be of the order of as little as 2×10^{-5} K or several K in width, depending upon the material state. The narrow transition width was observed in 99.9999% purity gallium single crystals.

Careful testing of the resistivity limit for superconductors has shown that it is less than 4×10^{-25} ohm-m, while the lowest normal state resistivity observed in metals is of the order of 10^{-15} ohm-m. Comparison of the resistivity of a superconductive body to that of copper at room temperature reveals that the superconductive body is at least 10^{17} times less resistive.

A Type I superconductive body, as exemplified by many pure metals, exhibits perfect diamagnetism (the Meissner state) below T_c and excludes a magnetic field up to some critical field H_c , whereupon it reverts to the normal state as shown in the H - T diagram of figure 1.

The discovery of the high-magnetic-field large-current-carrying capability of Nb_3Sn and other compounds and alloys has led to an extensive study of their physical properties. In brief, a high magnetic field superconductor, or Type II superconductor, passes from the perfect diamagnetic state at low magnetic fields to a mixed state and finally to a sheath state before attaining the normal resistive state of the metal. The magnetization of a typical high-field superconductor is shown in figure 1. The magnetic field values separating the four stages are given as H_{c1} , H_{c2} , and H_{c3} . The superconductive state below H_{c1} is perfectly diamagnetic and identical to the state of most pure metals of Type I. Between H_{c1} and H_{c2} a "mixed state" is found in which magnetic flux penetrates the superconductor in a nonuniform manner. Specifically, a lattice array of supercurrent vortices is formed, the magnetic flux contained within each vortex cell being equal to the magnetic flux quantum ($\sim 2 \times 10^{-7}$ gauss cm^2). At H_{c2} the fluxon density has become so great as to drive the interior volume of the material completely normal. Between H_{c2} and H_{c3} the superconductor has a sheath of current-carrying superconductive material at its surface, and above H_{c3} the normal state exists throughout the material. With careful measurement, it is possible to determine H_{c1} , H_{c2} , and H_{c3} . Table 5 contains data on high field superconductive materials.

A more complete representation of the states present in a high field superconductor is given in figure 2 with

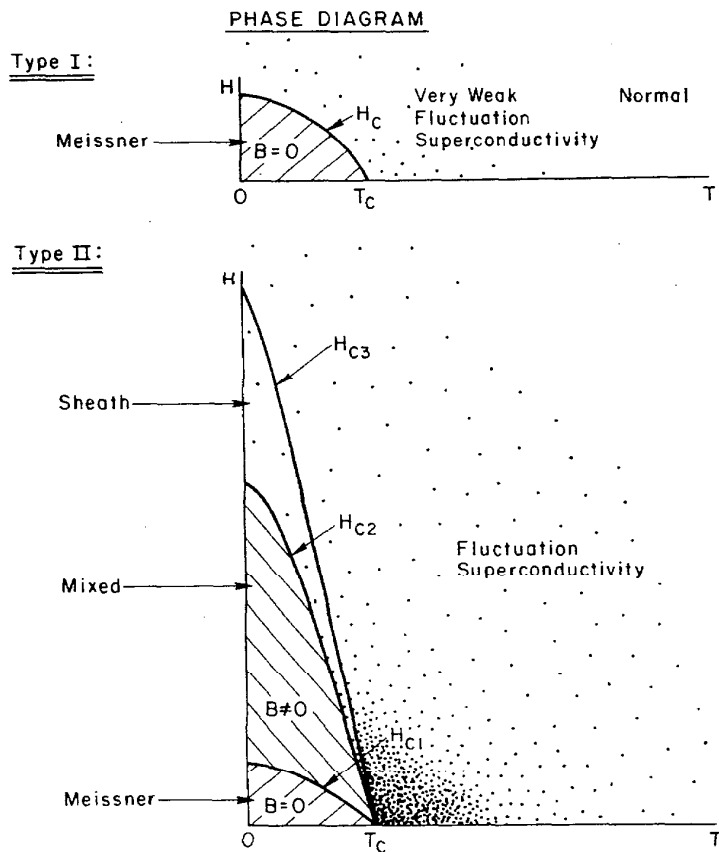


FIGURE 2. H - T phase diagram representation of Type I and Type II superconductors with locations for fluctuation superconductivity indicated. (R. R. Hake, personal communication and *J. Applied Phys.* **40**, 5148 (1969). "The Thermodynamics of Type I and Type II Superconductors.")

the additional phenomenon called fluctuation superconductivity. The latter phenomenon is evidenced in several physical properties above the appropriate critical fields and critical temperatures.

High field superconductive phenomena are also related to specimen dimension and configuration. For instance, the Type I superconductor, Hg, has entirely different magnetization behavior in high magnetic fields when contained in the very fine set of filamentary tunnels in an unprocessed Vycor glass. The great majority of superconductive materials are Type II. Most, but not all, elements in very pure form are Type I.

A further complication exists in the description of superconductive materials. In some instances a transition from Type II behavior to Type I behavior occurs as temperature is increased between absolute zero and T_c .

This survey has included the parameters T_c , H_c , H_{c1} , H_{c2} , H_{c3} , and has noted the crystal structure by code or crystal system. The values of H_c are sometimes noted to be taken at a specific temperature below T_c and denoted T_{obs} . H_0 is H_c extrapolated to 0 K. Methods of

extrapolation are critical in the case of high-magnetic-field parameters H_{c1} , H_{c2} , and H_{c3} .

Suggestions have been made to include additional parameters which are beyond the scope of this effort, for instance, $(dH_c/dT)_{T_c}$, $(2\Delta T/kT_c)$, $J_c H$, the thermal conductivity, and normal state resistivity. For details, see the section by G. D. Cody on Superconductivity in the Report of Meeting, 28 June 1971, of the Ad Hoc Panel on Electrical Properties of Solids of The Numerical Data Advisory Board, Division of Chemistry and Chemical Technology, National Research Council.

3. Metallurgical and Solid-State Aspects of Superconductive Materials

The sensitivity of superconductive properties to the material state is most pronounced and has been used on occasion in the reverse to study and specify the detailed state of alloys. The mechanical state, the homogeneity, and the presence of impurity atoms and other electron-scattering centers are all capable of controlling the critical temperature, critical field, and the

current-carrying capabilities in high magnetic fields. Well-annealed specimens usually show sharper transitions than those that are strained or inhomogeneous. This sensitivity to mechanical state underlies a general problem in the tabulation of properties of superconductive materials. The occasional divergent values of the critical temperature and of the critical fields quoted for a Type II superconductor may lie in the variation in sample preparation. Critical temperatures of materials studied early in the history of superconductivity must be evaluated in light of the probable metallurgical state of the material as well as the availability of less-pure starting elements. It has been noted that recent work has given extended consideration to the metallurgical aspects of sample preparation.

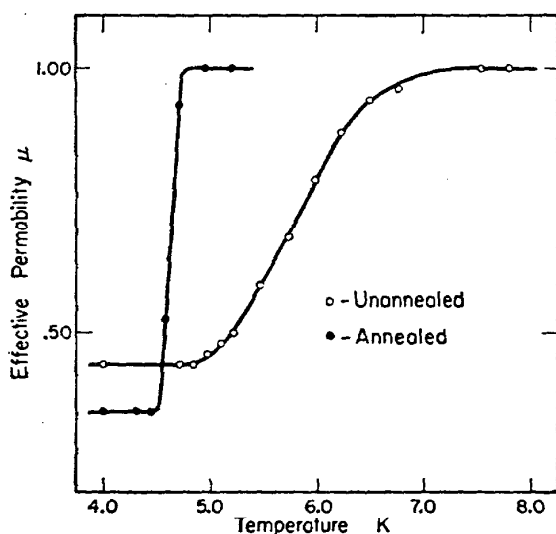


Figure 3(a). Transition curves for $Nb_{0.9}Cr_{0.1}$ alloy specimen before and after annealing. (After Hulm and Blaugher.)

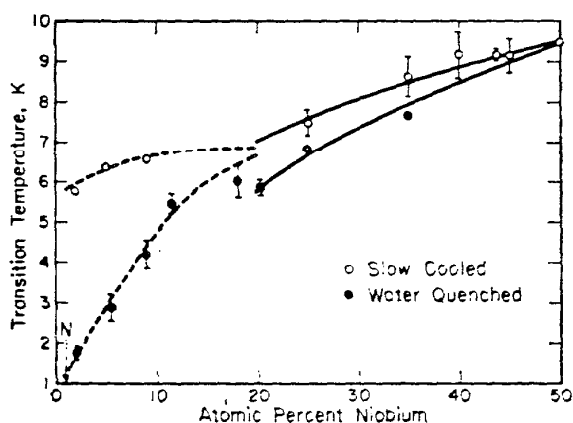


FIGURE 3(b). Transition temperature vs. composition for $Ti_{1-0.5}Nb_{0.5}$ alloys prepared by slow cooling or water quench. (After Hulm and Blaugher.)

Figure 3(a) illustrates the effect of preparation history on the shape of the effective permeability curve through T_c of a $Nb_{0.9}Cr_{0.1}$ alloy before and after annealing, while figure 3(b) shows the $Ti_{1-0.5}Nb_{0.5}$ alloy series T_c versus composition for slow cooling and for a water quench (after Blaugher and Hulm, Phys. Rev. **123**, 1569 (1961)).

4. How to Use the Data Tables

Properties of the superconductive elements are covered in table 1(a) for bulk values, 1(b) for thin-film preparations, and 1(c) for high-pressure modifications and metastable forms prepared by the application of high pressure.

All metallic and inorganic materials including the elements are listed and referenced in table 2 except that superconductive materials with organic and related constituents and the semiconductive superconductors are cited and the reader is referred to tables 3 or 4 for specialized data.

Tables 1 through 4 contain references to "HF" signifying that magnetic-field data H_{c1} , H_{c2} , or H_{c3} are reported in table 5 with appropriate references to the literature.

Tables 2 through 5 list the bulk material values for alloy systems first, then results of special studies such as pressure or dispersal in porous media, and finally, thin-film data with notations of temperature of deposition and film thickness in Angstroms (\AA).

The probable error limits are given for most of the bulk elements in table 1(a) and are derived from all the values collected in the data set as summarized in table 2. All collected references are presented in table 2. The procedure to determine error limits included the assembly of all acquired data on an element. Where possible, a selection was made of data obtained on samples with recorded high purity. If a sufficient number of values were available, the standard deviation was determined and listed. Error limits in a few instances were increased over the standard deviation if the element was known to be difficult of purification. Where a single value has been recorded it is listed without error limits and the significant digits published by the author are given.

In tables 2 through 5, a single reference usually implies a single parameter determination, and this value is quoted with the significant figures presented by the author. Many authors have considered the probable error in their measurements, and it is recommended that the source be consulted when possible. In heavily studied materials such as Nb and Nb_3Sn , ranges of critical temperatures and critical magnetic fields have evolved dependent upon composition, impurities, mechanical state, and other preparation variables. The first entry of a series in the respective table indicates a measured value that is thought to be the most probable value for a pure annealed element or a clean alloy of appropriate stoichiometry with an optimum anneal.

Tables 2-4 contain data on negative experiments in the column headed " T_n ", which is the temperature in K down to which the material has been checked specifically for a superconductive transition without success. If a material has been found to be ferrimagnetic, antiferromagnetic, or ferromagnetic it has not been included in this survey.

All compositions are denoted on an atomic basis; i.e., one atomic weight of A and one of B to form the AB composition. Exceptions are carefully noted. Solid solutions or a range of compositions may be denoted as $A_{1-x}B_x$ or $A_xB_yC_{1-x-y}$, or by the actual atomic fraction range such as $A_{1-0.4}B_{0-0.6}$. The critical temperature or magnetic fields may then be denoted either by a range of values or a maximum value (Max.).

A continuing point of difficulty lies in the method of selecting T_c from an experimental transition measurement whether it be the change in effective permeability, resistance, optical reflectivity, electron diffraction signal, specific heat or ultrasonic absorption. Most authors choose the midpoint of the curve (fig. 1(a)), but in the search for very high T_c materials often the "onset" temperature is chosen as the critical temperature. Some authors quote the width of the transition, and where a single alloy and single reference is given a range in T_c denotes the upper and lower limits to the transition.

Table 3 contains those special superconductive materials containing organic constituents. Most of the entries are layered compounds with an intercalated organic substance. These special materials exhibit both two- and three-dimensional superconductivity and have highly anisotropic high magnetic field properties.

In some instances a single line in a table will summarize the discoveries and measurements of two or three full research papers. It is therefore probable and reasonable for the researcher to explore the original references to obtain a full background of the abstracted data.

In section 8 of this survey the reader is directed to references to extensive reviews on, for instance:

Practical superconducting materials

Superconductivity in ultra-thin films

Brillouin zone effects in . . .

The superconductive energy gap

Pressure effects in superconductors

and many other reviews with special emphasis—for instance, a review of the alloy system Nb_3Sn .

For problems in solders for low-temperature research, the paper by W. H. Warren, Jr. and W. G. Bader (Rev. Sci. Instruments **40**, 180 (1969)) is most useful. Their data are included in tables 2 and 5 under ref. [1917].

5. Symbols and Abbreviations (Relating to Tables 1 to 5)

T_n The lowest temperature to which a material has been tested with negative results for a transition to the superconductive state.

HF	In H_0 column denotes data and/or references given on magnetic properties, H_{c1} , H_{c2} , H_{c3} , in table 5.
▽	Given in front of reference number, it denotes a thin-film study.
#	After a reference number indicates electronic specific heat, Debye theta or related parameter values are given in the reference. See end of table 1(a) for general references to these data.
n	Denotes the number of carriers per cubic centimeter in semiconductors that exhibit a superconductive state at very low temperature.
T'_c (. . .)	Denotes incremental changes in T_c from T_c of the pure metal. For example, $T'_c (+0.05)$ denotes that two or more measurements have been made by adding a small amount of alloying element to a metal to form a dilute alloy (or mixture) and in so doing T_c has been raised by 0.05 K. $T'_c (-0.03+0.14)$ denotes an initial decrease and then an increase to 0.14 K over the pure metal.
P	Denotes pressure (quoted in kbar; may be rounded units of katm or other unit).
ppm	Parts per million.
T_{obs}	Denotes temperature of observation of H_c , H_{c1} , H_{c2} , and H_{c3} .
oersted	Is equivalent to 79.57 amperes/meter.
RRR	Denotes "residual resistivity ratio" and is used only as an indicator of sample purity. In most cases it is the room temperature resistivity divided by the resistivity at 4.2 K. The original reference should be consulted for details.
Å	Denotes 10^{-10} m or 10^{-8} cm or one Angstrom unit.
Max.	Indicates that the value given is the maximum value of 3 or more measured values of a variable.

Crystallographic System Abbreviations

CUB	Cubic
TET	Tetragonal
HEX	Hexagonal
ORTHO	Orthorhombic

MONO	Monoclinic
RHOMB	Rhombohedral (sometimes described in hexagonal format)
TRI	Triclinic

Crystal Structure Types

The "Strukturbericht" types are described in W. B. Pearson, *Handbook of Lattice Spacings and Structures of Metals* (Pergamon, New York, 1958), p. 79, also Vol. II (Pergamon, New York, 1967) p. 3.

"Strukturbericht" Type	Example	Class
A1	Cu	Cubic, face centered
A2	W	Cubic, body centered
A3	Mg	Hexagonal, close packed
A4	Diamond	Cubic, face centered
A5	White Sn	Tetragonal, body centered
A6	In	Tetragonal, body centered (face centered tetragonal cell usually used)
A7	As	Rhombohedral
A8	Se	Trigonal
A10	Hg	Rhombohedral
A12	α -Mn	Cubic, body centered
A13	β -Mn	Cubic
A15	" β -W"	Cubic
B1	NaCl	Cubic, face centered
B2	CsCl	Cubic
B3	ZnS	Cubic
B4	ZnS	Hexagonal
B8 ₁	NiAs	Hexagonal
B8 ₂	Ni ₂ In	Hexagonal
B10	PbO	Tetragonal
B11	γ -CuTi	Tetragonal
B17	PtS	Tetragonal
B18	CuS	Hexagonal
B20	FeSi	Cubic
B27	FeB	Orthorhombic
B31	MnP	Orthorhombic
B32	NaTl	Cubic, face centered
B34	PdS	Tetragonal
B _f	δ -CrB	Orthorhombic
B _{μ}	MoB	Tetragonal
B _h	WC	Hexagonal
B _i	γ' -MoC	Hexagonal
C1	CaF ₂	Cubic, face centered
C1 _b	MgAgAs	Cubic
C2	FeS ₂	Cubic
C6	CdI ₂	Trigonal
C11 _b	MoSi ₂	Tetragonal, body centered
C12	CaSi ₂	Rhombohedral
C14	MgZn ₂	Hexagonal
C15	Cu ₂ Mg	Cubic, face centered
C15 _b	AuBe ₅	Cubic

"Strukturbericht" Type	Example	Class
C16	CuAl ₂	Tetragonal, body centered
C18	FeS ₂	Orthorhombic
C22	Fe ₂ P	Trigonal
C23	PbCl ₂	Orthorhombic
C32	AlB ₂	Hexagonal
C36	MgNi ₂	Hexagonal
C37	Co ₂ Si	Orthorhombic
C49	ZrSi ₂	Orthorhombic
C54	TiSi ₂	Orthorhombic
C _c	Si ₂ Th	Tetragonal, body centered
D0 ₃	BiF ₃	Cubic, face centered
D0 ₁₁	Fe ₃ C	Orthorhombic
D0 ₁₈	Na ₃ As	Hexagonal
D0 ₁₉	Ni ₃ Sn	Hexagonal
D0 ₂₀	NiAl ₃	Orthorhombic
D0 ₂₂	TiAl ₃	Tetragonal
D0 _e	NiP ₃	Tetragonal, body centered
D1 ₃	Al ₄ Ba	Tetragonal, body centered
D1 _c	PtSn ₄	Orthorhombic
D2 ₁	CaB ₆	Cubic
D2 ₃	NaZn ₁₃	Cubic
D2 _c	MnU ₆	Tetragonal, body centered
D2 _d	CaZn ₅	Hexagonal
D5 ₂	La ₂ O ₃	Trigonal
D5 ₈	Sb ₂ S ₃	Orthorhombic
D5 _c	Pu ₂ C ₃	Cubic
D7 ₃	Th ₃ P ₄	Cubic, body centered
D7 _b	Ta ₃ B ₄	Orthorhombic
D8 ₁	Fe ₃ Zn ₁₀	Cubic, body centered
D8 ₂	Cu ₃ Zn ₈	Cubic, body centered
D8 ₃	Cu ₉ Al ₄	Cubic
D8 ₈	Mn ₅ Si ₃	Hexagonal
D8 _b	CrFe	Tetragonal
D8 _f	Ge ₇ Ir ₃	Cubic
D8 _i	Mo ₂ B ₅	Rhombohedral
D8 _m	W ₅ Si ₃	Tetragonal
D10 ₂	Fe ₃ Th ₇	Hexagonal
E2 ₁	CaTiO ₃	Cubic
E9 ₃	Fe ₃ W ₃ C	Cubic, face centered
H1 ₁	Al ₂ MgO ₄	Cubic, face centered
L1 ₀	CuAu	Tetragonal
L1 ₂	Cu ₃ Au	Cubic
L2 ₁	Cu ₂ AlMn	Cubic
L _{2b} '	ThH ₂	Tetragonal, body centered
L ₃	Fe ₂ N	Hexagonal

6. Acknowledgments

Extensive helpful collaboration of the scientific community has contributed to the survey as initiated by the request for data by B. T. Matthias and A. B. Pippard (Phys. Chem. Solids **23**, 181 (1962)) following

the International Conference on Superconductivity at IBM to the present day via contributions of unpublished data, corrections, reprints, and other information from:

Mrs. Vera B. Compton, B. T. Matthias, S. Geller, N. E. Alekseevskii, E. H. Saur, R. E. Jones, Jr., R. D. Blaugher, J. Muller, B. A. Sherwood, G. V. Samsonov, E. Bucher, J. Volger, Ch. J. Raub, B. R. Coles, K. Yasukochi, F. Galasso, A. C. Rose-Innes, A. F. Rice, R. A. Hein, W. DeSorbo, G. T. Meeden, L. E. Toth, D. C. Hamilton, E. C. van Reuth, A. L. Giorgi, E. G. Szklarz, K. Noto, H. P. R. Frederikse, S. S. Shalyt, R. M. Waterstrat, F. Hulliger, G. L. Buthrie, D. R. O'Boyle, W. J. McDonald, S. Foner, A. S. Cooper, A. G. Shepelev, T. H. Geballe, G. C. Carter, A. Echarri, H. Krebs, J. E. Cox, R. R. Hake, M. H. Van Marren, M. S. Lubell, M. B. Robin, Robert Reich, J. Wittig, R. E. Emstron, F. E. Wang, W. O. Gentry, E. E. Havinga, K. Gschneider, Jr., J. R. Gavaler, S. Methfessel, B. Stritzker, E. M. Savitskii, A. Junod, L. R. Testardi, D. Schneider, C. Rizzuto, J. F. Schooly, R. H. Hammond, M. J. Dienko, J. K. Hulm, G. D. Cody, D. E. Mapother, A. Joshi, J. Mazur, P. Spitzli, C. W. Chu, T. Ohtsuka, J. H. Westbrook, S. Ewert, T. Sambongi,

P. Frank, L. Finegold, D. W. Bloom, D. S. Rodbell, J. R. Mole, D. A. Gubser, T. B. Reed, D. J. Erickson, T. H. K. Frederking, R. B. Somoano, G. J. Van Gorp, B. J. Maddock, F. R. Gamble, E. R. Ryba, R. J. Soulen, Jr., D. G. Hamblen, E. Parth'e, Y. Muto, H. Von Philipsborn, O. Rapp, A. Z. Kurmaev, M. Yamamoto and anyone inadvertently omitted.

Interested, enthusiastic, and helpful support has been the norm from the National Bureau of Standards, from E. L. Brady, G. C. Carter, David R. Lide, Jr., and especially patient L. H. Gevantman, all of the Office of Standard Reference Data.

Many helpful and conscientious colleagues of the author's laboratory have participated over the years and are to be commended including:

Ms. Marilyn Brown, Mrs. Jean Slaggie, Mrs. Ethel Fontanella, Mrs. Mary De Orr King, Mrs. Joan Wolfe, Miss Mary Marquis, Miss Claudia Gnoinski, Miss Vera O. Chase, Mrs. June Falcone, Mrs. Marie Lombardi, Mrs. Barbara Fisher, S. L. Decker, Fred Cox, Miss Helen Wilford, W. G. Moffatt, A. J. Peat, N. T. Parascandola, Mrs. Mona Como, Mrs. Betty Byster, and Joseph Pauze and all of his girls.

TABLE 1(a). Properties of the Superconductive Elements (See Table 2 for References, Crystal Structure Data, and Parameters of Non-Superconductive Elements where Tested)

Element	T_c (K)	H_0 (oersted)	θ_D (K) ^b	γ (mJmol ⁻¹ K ⁻¹) ^b
Al	1.175±0.002	104.9±0.3	420	1.35
Be	0.026			0.21
Cd	0.517±0.002	28±1	209	0.69
Ga	1.083±0.001	59.2±0.3	325	0.60
Ga (β)	5.9, 6.2	560		
Ga (γ)	7	950, HF ^a		
Ga (Δ)	7.85	815, HF		
Hf	0.128			
Hg (α)	4.154±0.001	411±2	87, 71.9	1.81
Hg (β)	3.949	339	93	1.37
In	3.408±0.001	281.5±2	109	1.672
Ir	0.1125±0.001	16±0.05	425	3.19
La (α)	4.88±0.02	800±10	151	9.8
La (β)	6.00±0.1	1096, 1600	139	11.3
Lu	0.1	<400		
Mo	0.915±0.005	96±3	460	1.83
Nb	9.25±0.02	2060±50, HF	276	7.80
Os	0.66±0.03	70	500	2.35
Pa	1.4			
Pb	7.196±0.006	803±1	96	3.1
Re	1.697±0.006	200±5	415	2.35
Ru	0.49±0.015	69±2	580	2.8
Sn	3.722±0.001	305±2	195	1.78
Ta	4.47±0.04	829±6	258	6.15
Tc	7.8±0.1	1410, HF	411	6.28
Th	1.38±0.02	160±3	165	4.32
Ti	0.40±0.04	56	415	3.3
Tl	2.38±0.04	178±5	78.5	1.47
V	5.40±0.05	1408	383	9.82
W	0.0154±0.0005	1.15±0.03	383	0.90
Zr	0.850±0.01	54±0.3	310	0.66
Zr	0.61±0.15	47	290	2.77
Zr (ω)	0.65, 0.95			

^a HF denotes high field superconductive properties. See Table 5.

^b For a complete data set, see Phillips, N.E., *Critical Reviews in Solid State Sciences* **2**, 467-554 (1972), "Low Temperature Heat Capacity of Metals." Also Mendelssohn, K., in *Cryophysics* (Interscience, New York, 1960), p. 178, Gschneidner, K.A. Jr., in *Solid State Physics* **16**, 275-426 (1964), Parkinson, D.H., *Rep. Progr. Phys.* **21**, 226 (1958) and Heiniger, F., Bucher, E., and Muller, J. "Low Temperature Specific Heat of Transition Metals and Alloys" *Phys. Kondens. Materie* **5**, 243-284 (1966).

TABLE 1(b). Range of Critical Temperatures Observed for Superconductive Elements in Thin Films Condensed Usually at Low Temperatures (See Table 2 for Data and References and Table 5 for "HF" High Field Magnetic Property Data)

Element	T _c Range (K)	H _c (oersted)
Al	1.15~5.7	HF ^a
Ba	3.0	HF
Be	5-9.75	HF
(with KCl)	6.5-10.6	HF
(with zinc etio-porphyrin)	10.2	
Bi	6.17, 6.13-2.3, ~5~2	
Ca	4.2	HF
Cd		
(Disordered)	0.79-0.91	
(Ordered)	0.53-0.59	
Ga	2.5-8.5	HF
In	3.43-4.65	HF
La	3.55 4.9, 5.0-6.74	
Mg	5.5	HF
Mo	3.3-3.8, 4-6.7	
Nb	6.3-10.1	
Pb	~2-7.5	
Re	1.7~7	
Sn	3.5~6	
Sr	3.6	HF
Ta	<1.7-4.51	HF
Tc	4.6-7.70	
Ti	1.3 Max	
Tl	2.33-2.96	
V	1.8-6.02	
W	<1.0-4.1	
Zn	0.77-1.70, ~1.9	

^aHF denotes high magnetic field superconductive properties in Table 5.

TABLE 1(c). Elements Exhibiting Superconductivity Under or After Application of High Pressure (See Table 2 for References, Table 5 for "HF" High Magnetic Field Properties)

Element	T _c Range(K)	Pressure (kbar) ^b
As	0.31-0.5	220-140
	0.2-0.25	~140-100
Ba II	~1-1.8	~55-85
III	1.8-5	~85-144
IV	4.5-5.4	144-190
Bi II	3.9	25-27
III	6.55, 7.25	~37, 27-28
IV	7.0, 8.7-6.0	43, 43-62
V	6.7, 8.3	68, 81
VI	8.55	90, 92-101
VII(?)	8.2	30
Ce	1.7	50
Cs V	~1.5	>125
Ga II	6.38	≥35
II'	7.5	≥35 then P removed
Ge	5.35	115
La	~5.5-11.93	0~140
Lu	~0.6-~0.018	145-80
P	5.8	170
Pb II	3.55	160
Re II	2.3 Max.	"Plastic" compression
Sb(Prepared 120 kbar, held below 77K)	2.6-2.7	
Sb III	3.55-3.40	85 ~150
Se II	6.75, 6.95	~130
Si	6.7-7.1	120-130

TABLE 1(c) (Cont'd). Elements Exhibiting
Superconductivity Under
or After Application of
High Pressure

Element	T_c Range (K)	Pressure (kbar) ^b
Sn II	5.2-4.85	125-160
III	5.30	113
Te II	2.05	43
	3.4	50
III	4.28-4.15	68-80
IV	4.3-3.3	80-100
()	3.3-2.8	100-260
Tl (cubic form)	1.45	35
(hexagonal form)	1.95	35
U	2.4-0.4	10-85
Y	2.3-1.7-2.5	110-125-160
Zr (omega form, metastable)	1-1.7	60~130

^b 1 kbar = 10^8 newton/meter² = 0.987 katm

TABLE 2. Properties of Superconductive Materials (including proven non-superconductors)

Note: "HF" Signifies high magnetic field data in Table 5.

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Ag (99.999%)			A1	0.002	1617 1830 270
Ag (proximity effect)					1633
$Ag_{3.3}Al$; Ag_3Al			Like A13	0.34	486 084
$Ag_{0.70-0.60}Al_{0.30-0.40}$	0.11-0.135-0.09		HEX		1617
$Ag_{0.167}Al_{0.833}$	0.88 (Quench) 0.84-0.86 (Anneal)	HF			1413 1766
$Ag_{0.002}Al_{0.998}$	1.128				1895
$Ag_{0-0.101}Al_{1-0.9}$	$T_c'(-0.25)$	HF			1846
$Ag_{0-0.002}Al_y$	$T_c'(-0.0543)$				319 320 [∇] 235
$Ag_{1-0}Al_{0-1}Th_2$	2.2-0.1		C16		1377
$Ag_xAl_yZn_{1-x-y}$	0.5-0.845				624
$Ag_{0.91}As_{0.09}$				1.32	084
$Ag_7BF_4O_8$	0.15		CUB		605
Ag_5Ba			$D2_d$	0.34	486
Ag_2Be				1.28	011
$AgBe_2$				1.4	1769
$Ag_{0.01-0.05}Be_{0.99-0.95}$ (arc melt)				0.45	1057
$Ag_{0-1}Be_{13}Re_{1-0}$	<9.9				1769
AgBi				1.32	084
Ag_2Bi				1.28	011
AgBi				1.28	011
$AgBi_2$	3.0-2.78				606
$Ag_{0.15}Bi_{0.85}$ (Deposited at 4K)	5.3, 5.1				[∇] 1867
Ag_5Cd_8				1.28	084
$Ag_{0.6}Cd_{0.4}$			A1	0.014	1617
$Ag_{0.05}Cd_{0.95}$ (weight fraction)				1.3	1917
$Ag_{\sim 0.4}Cd_{\sim 0.21}Cu_{\sim 0.18}Ni_{0.0001}$ $Zn_{\sim 0.2}$	0.0644			6.2 (at 0.033K)	1864
$Ag_{0.04}Cd_{0.784}Cu_{0.01}Zn_{0.166}$ (weight fraction)				1.3	1917
$Ag_{0.035}Cd_{0.01}Sn_{0.955}$ (weight fraction)	3.65	HF			1917
$Ag_{0.05}Cd_{0.784}Zn_{0.166}$ (weight fraction)				1.3	1917

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_D (K)	Ref
$AgCl_2$				1.9	089
Ag_4Cu_9				1.28	084
$Ag_{0.96}Cu_{0.22}Sn_{0.5}Zn_{0.17}$				~0.033	1864
$Ag_{0.4}D_xPd_{1-0.6}$ (Implanted)	10-16-3				1401 1985
$Ag_{0.16}D_xPd_{0.84}$	15.3 max.				1901
$Ag_{0.2}D_xPd_{0.8}$	~16 max.				1985
Ag_2I	0.066	2.5			651#
$Ag_7F_2HO_8$	1.0-1.5				1146 605
$Ag_7F_{0.25}N_{0.75}O_{10.25}$	1.04				1146 605
$Ag_7F_8O_8$	0.3		CUB		605
$Ag_{0.95-0.82}Ga_{0.05-0.19}$				1.4	533
$Ag_{0.8-0.3}Ga_{0.2-0.7}$	6.5-8				533
$Ag_{0.29-0.02}Ga_{0.71-0.98}$				1.4	533
$Ag_xGa_yIn_{0.10}$	6.5-8				533
$Ag_xGa_ySn_{0.10}$	4.2				533
$Ag_xGa_yZn_{0.10}$	6.5-8				533
Ag_4Ge	0.85		HEX		487
$Ag_{0.45}Ge_{0.55}$ (200-600Å) Deposit ~4K	1.2, 1.5				∇ 1082 ∇ 1179 ∇ 1729
$Ag_{0.5}Ge_{0.5}$				1.5	1729
$Ag_{0.4}H_{0.8}Pd_{1-0.6}$ (H implanted)	8.6-15.6-8				1901
$Ag_{0.3}H_xPd_{0.7}$ (H implanted)	~16				1985
$Ag_{0.438}Hg_{0.562}$	0.64		$D8_2$		489 084 258
$Ag_{0.7}Hg_{0.3}$			CUB	0.33	259
$Ag_{0.55}Hg_{0.45}$			HEX	1.08	258
$Ag_{0.85}In_{0.15}$			AI	0.014	1617
Ag_3In				1.4	533
Ag_2In	2.11		C16		1317 229
$Ag_{0.12}In_{0.88}$ (1000-240Å)	4.69-4.57				∇ 1899
Ag_xIn_{1-x} (whiskers)					1780
$AgInTe$ (See Table 4)					
$AgLa$	0.92-0.96				697
$AgLa$ (0.5 kbar)	1.2		B2		697
$AgLu$			B2	0.33	658
$AgMg$			B2	1.02	270 011
$AgMnSnTe$ (See Table 4)					

TABLE 2 (Contd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$AgMo_4S_5$	8.3;(11.5 with Cu plate)				1193#
$AgMo_4S_5$ (0-19 kbar)	7.7-6.4				614
$Ag_{1.2}Mo_{4.8}S_6$	8.9		RHOMB		1163
Ag_7NO_{11}	1.04	57	CUB		605
$AgNb_3$	8.28?				181
Ag_2O				128	011
$Ag_{0.0-0.12}Pb_{1-0.88}$	$T_c'(-0.4)$				∇1386
$Ag_{0.1}Pb_{0.9}$ (condensed at 4K)	5.88 6.94 (Annealed)				∇1491
$Ag_{0.9-0}Pb_{0.1-1}$ (Weight fraction)	7.2 Max.				088 085 111
$Ag_{0.15}Pb_{0.975}Sn_{0.01}$ (Weight fraction)	7.25	HF			1917
Ag_xPd_{1-x}			A1	1.00	037 572#
Ag_2Pd_3S	1.13		A13		1221
$Ag_{1-0}Pd_{0-1}Th_2$	2.1-2.3-1.1 - 1.3-0 7		C16		1377
Ag_xPt_{1-x}				1.00	037
$Ag_{0.05}Rh_{0.04}Ti_{0.91}$	1.95				1060
Ag_2S				1.28	011
Ag_3Sb				1.28	084
$Ag_{0.865}Sb_{0.135}$				1.26	084
$AgSb$				1.90	099
$Ag_{0.88-0.84}Sb_{0.12-0.16}$	0.02-0.06		HEX		1617
Ag_2Se				1.28	011
$AgSi_2$				1.4	533 585
$Ag_{0.84-0.77}Sn_{0.16-0.23}$	0.025-0.107		HEX		1617 630#
$Ag_{0.92}Sn_{0.8}$				1.26	084
Ag_3Sn				1.36	085 381 ∇693
Ag_7Sn_7	3.3-3.7				086 088
Ag_5Sn			A3	0.34	486
$Ag_{0.7-0}Sn_{0.3-1}$ (Weight fraction)	~1.5-3.71				088
Ag_xSn_{1-x}	2.0-3.8				∇693
$AgSnTe$ (See Table 4)					
Ag_5Sr			D2 _d	0.34	486
$AgTe$				1.28	011 427
$AgTe_3$	2.6		CUB		487

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
AgTh ₂	2.19		C16		1377 173
Ag _{0.98-0.96} Tl _{0.02-0.04}				1.26	084
Ag _{0.94} Tl _{0.06}	2.32				084
AgTl(Eutectic)	2.67				085
Ag _{0.1} Tl _{0.9}	3.57 2.40(Annealed)				▽1900 071
AgY			B2	0.33	658 260
Ag ₅ Zn ₈				1.28	084
AgZn ₃				1.28	084
AgZn			"γ"	1.30	1009
Ag _x Zn _{1-x}	0.5-0.845				624
Ag _{0.005} Zn _{0.995}	0.763				1506#
Ag _{0-0.057} Zr _{1-0.943}			A3		572#
Al(99.999%)	1.175	104.8			762# 1794 1895 1746 1846 435#
Al(plus pressure study)	1.179	104.9			1004# 1571#
Al(RRR=4100±500)	1.176				1895
Al	1.17	104			024# 639
Al(99.999%)	1.187				755 1061# 219 320
Al	1.18	104.8			1507 791 1118# 1507 1357 1267
Al	1.19				856#
Al	1.20	99,106			148 001# 390
Al(>98%)	1.14	94			336# 337
Al(Cold worked)	T_c (-0.028)				746
Al(Particles 90-160Å)	1.81-1.3				1627
Al(Fe, Cr, Mn added)					436
Al(920-38Å)	1.24-2.47	HF			▽1634 ▽1419
Al(<50Å)	4.6 Max.				▽1648
Al(Various thicknesses)	1.15....3.7				▽1714 ▽888 ▽757 ▽1782 ▽619 ▽ 758 ▽595 ▽ 596 ▽828 ▽1134 ▽1194 ▽1259 ▽1302 ▽1460 ▽1534 ▽1615

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Al(<160Å)	5.7 Max.				▽837 ▽1545
Al(~12-30-60Å)	3.0-4.6-3.8				▽837
Al(Granular, 25-1000Å)	~1.3-3.74	HF			▽937 ▽1294 ▽1573 ▽1502
Al(Deposited 78K, 790Å)	1.904				▽1880
Al(Deposited 4.2K)	1.4-2.2-3.3				▽1739
Al(Pressure 0-14 kbar)	2.1-1.7				▽826
Al(<100Å)	2.45 3.0(oxidized)				▽1062
Al(See Table 3)					
$Al_{0.9}As_{0.05}Ga_{0.05}Nb_3$	19.2 Max.				939
$Al_{1-x}As_xNb_3$	18.52 (Decreases)				939
$Al_{1-x}As_xV_3$	10.6-3.0		A15+ CUB		1015
Al_2Au	0.095-0.074		C1		1011 486 037 866# 486
$AlAu_4$	0.4-0.7		A13		
$Al_{0.15}Au_{0.85}$			A1	0.014	1617
$Al_{0.1-0.5}Au_{0.9-0.5}V_3$			A15, CUB	1.2	1015
$Al_{0.2}B_{0.5}Mo_{1.8}$	5.7, 4.9-2.7		C32		767
$Al_{1-y}B_yNb_3$	18-19.1-18.5(aged) 16.3-17-11(as cast)		A15		1360
$Al_{0.95}B_{0.05}Nb_3$	19.1(aged)		A15		1360
$Al_{0.3}Be_{0.7}$	6.5				▽674
$Al_{0.1}Be_{0.9}$	7.2				▽674
$Al_{0.1-0.5}Be_{0.9-0.5}$	7.2-6.3				▽1903
$AlBe_{13}$				1.4	1769
$Al_{1-y}Be_yNb_3$	17.3-19.6-13(aged) 16.5-18-13(as cast)		A15		1360
$Al_{0.95}Be_{0.05}Nb_3$	19.6		A15		1360
$Al_{0-1}Be_{13}Re_{1-0}$	<9.9				1769
Al_4C_3				1.38	558
$Al_2C Cr_3$			HEX, H-phase	4.2	496 497
$Al C Cr_2$			HEX, H-phase	1.1	632
$Al C La_3$			CUB	1.02	1564
$Al_2C Mo_3$	10.0, 9.2	HF	A13		496 497 571 632 966
$Al_2C Nb_3$			HEX, H-phase	4.2	496 497
$Al_2C Ta_3$			HEX, H-phase	4.2	496 497

TABLE 2 (Cont'd). Properties of Superconductive Materials

Materials	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Al_2C Ti_3$			HEX, H-phase	4.2	496 497
$Al C Ti_3$				1.15	711
$Al_2C V_3$			HEX, H-phase	4.2	496 497
$Al C V_2$			HEX, H-phase	1.1	632
$Al C Y_3$				1.15	711
Al_2Ca			C15	1.02	270 427
Al_4Ca			D1 ₃	1.02	270 427
Al_2CaSi	5.8				427
Al_2Ce			C15	0.34	655
$Al_2Ce_{0-0.005}La_{1-0.995}$	3.305-1.745 3.27-1.15	HF			1424# 953 1676#
$AlCe_{0-0.017}La_3$	6.0-1	HF	DO ₁₉		1887#
$Al_{0.996}Co_{0.004}$	$T'_c(-0.24)$				1507
$Al_{0.107-0.119}Co_{0.088-0.61}$				1.4	514#
$Fe_{0.81-0.27}$					
$Al_{13}Co_{0-0.16}Os_4-3.84$	5.5-1.3		MONO		1431
$Al_{0.3-0.05}Cr_{0.7-0.95}$			CUB	1.4	514#
$Al_{0-0.3}Cr_{1-0.7}$					572#
$AlCr_{0-0.0016}$	$T'_c(-0.33)$				598 673 1507 1357
$Al_{0.09-0.11}Cr_{0.05-0.85}$			CUB	1.4	514#
$Fe_{0.05-0.87}$					
$AlCr_{0.3}Nb_{2.7}$	14.1				1976
$Al_{0.1-0.13}Cr_{0.09-0.84}$			CUB	1.4	514#
$V_{0.05-0.78}$					
$Al_{2.06}Cu$	0.65		C16		1377 270 229
Al_4Cu_9				1.28	084
$Al_{0.992}Cu_{0.008}$ (Rapid quench)	1.48-2.95				1640
(Ultrarapid quench)				1.48	1640
$AlCu$ (Layers, 750Å)	2.6-3.45				∇1134
$AlCuZr$			C15	1.02	270
$Al_{0.997}Er_{0.003}$ (Deposit N_2 Temp., 260Å)	1.658				∇1651 ∇1621
$AlFe_{0-0.0002}$	$T'_c(-0.04)$				598 637 572#
$Al_{0.998}Fe_{0.002}$	$T'_c(-0.25)$				1507
$Al_{1-x}Fe_x$	$T'_c(-0.055)$				1357
$Al_{0.999}Fe_{0.001}$	1.50				976#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Materials	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Al-Fe ₃ O ₄ (5000Å)		HF			∇1451
Al ₁₃ Fe _{0-0.08} Os _{4-3.92}	5.5-<1		MONO		1431
Al _{1-x} Ga _x Nb ₃	18.3-18.7-16.1 (Annealed)		A15		1072 311 939
Al _{1-0.7} Ga _{0-0.3} Nb ₃	18-17.7-17.9 (Annealed) (As cast lower)				1404
Al _{0.9} Ga _{0.1} Nb ₃	17.7 (Annealed)				1976
Al _{0.85-0.05} Ga _{0.15-0.95} Nb ₃ (20,000Å)	16.3-16.5-14.6		A15		∇1954
Al _{0.5} Ga _{0.5} Nb ₃	19.0	HF			1339
Al ₁₋₀ Ga ₀₋₁ V ₃	11.5-9-12.0 (Ga _{0.4-1})		Mixed phases		1369
Al _{1-x} Ga _x V ₃	14.5-5.5		A15		890
Al _{0.5} Ga _{0.5} V ₃	12.9		A15		1073
Al _{0.3} Ga _{0.7} V ₃	13.9		A15		1073
Al _{0.1} Ga _{0.9} V ₃	13.9 14.9 (Annealed)		A15		1073
Al _{0-0.4} Ga _{1-0.6} V ₃	13.9-11.5 (Many anneals)		A15		1832
Al _{0-0.13} Ga _{0.13-0.32} V _{0.68-0.72}	>14.5-<6	HF	A15		1720
Al _{3-2.94} Gd _{0-0.06} La	2.05-6.16	HF	DO ₁₉		918 943
Al ₂ Gd _{0-0.006} La _{1-0.994}	3.237-0.5	HF	C15		953 1111 1425# 1262
Al ₂ Gd _{0.002} La _{0.998} (0-18 kbar)	2.45-2.1				1924
AlGd _{0-0.009} La _{3-2.991}	6.0-<1	HF	DO ₁₉		1887 1170 1364
Al _{0.33} Ge _{0.67}	1.75				427
Al _{1-0.998} Ge _{0-0.002}	T _c ' (-0.003+0.002)				319 320 746
AlGe _{0.026}	T _c ' (+0.005)				746
Al _{0.964} Ge _{0.036} (Deposited 77K)	2.74				∇1622
Al _{0.9} Ge _{0.1}	6.45				∇1528
AlGe (Deposited 77K)	5.5 2.4 (Annealed)				∇1120
Al _{1-x} Ge _x	2.6-3.48, 3.6		CUB		∇1622
Al _{0.65} Ge _{0.35} Hf _{3y} Nb _{3(1-y)}	18.5-3.8-4.6 (as cast) 20.1-4.0-6.2				885
Al _{0.65} Ge _{0.35} Hf ₃₋₀ Nb ₀₋₃	~3-6-4-20				1173
Al _{1-0.65} Ge _{0-0.35} Nb ₃	18.8-20.2-19.9				1749

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Al _{0.825-0.7} Ge _{0.175-0.3} Nb ₃	20-20.75-19.3 (Annealed)				1819
Al _{0.77} Ge _{~0.23} Nb ₃ (Long anneals)	20.75 21.05 (Onset)		A15		1819
Al ₁₋₀ Ge ₀₋₁ Nb ₃	16.5-20-5.5				1731 1812 1755 1705 1976 1072 1404
AlGeNb ₃ (Irradiated)	19.5~19.2		A15		1660
Al _{0.9} Ge _{0.1} Nb ₃	18.9				1976
Al _{0.8} Ge _{0.2} Nb ₃	20.05 19.2-17.8	HF	A15		823 1976 704 1821
Al _{0.75} Ge _{0.25} Nb ₃	20.2, 20.1		A15		885 1823
Al _{0.66} Ge _{0.22} Nb _{3.10}	20.29		A15		1446
Al _{0.75} Ge _{0.25} Nb ₃	20.7-18	HF			876 859 1164 1590 789 1731
Al _{0.75} Ge _{0.25} Nb _{3.8}	20.34				1966
Al _{0.61-0.75} Ge _{0.39-0.25} Nb _{4.03-3.43}	20.34-19				1966
Al _{0.70-0.75} Ge _{0.20-0.25} Nb ₃	21.0		A15		1019
Al _{0.76} Ge _{0.38} Nb _{2.86}	20.1-19.6	HF			896
Al _{0.57-0.65} Ge _{0.35-0.23} Nb _{3-3.2}	20.1	HF	A15		885 787 1483
Al _{0.72} Ge _{0.24} Nb _{3.04}	20.0				1821
Al _{0.64} Ge _{0.2} Nb _{3.16}	20.7	HF			1339
Al _{0.5} Ge _{0.5} Nb ₃	12.6		A15		311
Al _{1-x} Ge _x Nb ₃ (P study)					1079
Al _{1-x} Ge _x Nb ₃ (~1000-30,000Å)	<9>19				∇1471 ∇1276
Al _{0.15-0.95} Ge _{0.85-0.05} Nb ₃ (~20,000Å)	13-16.7-15.7				∇1954
Al _x Ge _{1-x} Nb ₃ (4000Å)	4.2-11.4	HF			∇708 ∇1483
Al _{0.8} Ge _{0.2} Nb ₃ (2000Å; 5000Å)	17.4-16.6, 10.7, 16.0	HF			∇1525 ∇708 ∇1174
Al ₀₋₁ Ge ₀₋₁ Nb ₃ Sn ₁₋₀ (Ternary diagram)	18.1-16.5-7.1				1812
Al _{0.85-0.7} Ge _{0.15-0.3} Nb _{1-0.96} Ta _{0-0.04}	18.5-11				1360
Al _{1-0.6} Ge _{0-0.4} Nb _{2.85} Ta _{0.15}	16.5-18-15 (As cast) 19.5-20.5-18.5 (aged)				1360
Al _{0.85} Ge _{0.15} Nb _{2.85} Ta _{0.15}	20.5				1360
Al _{0.65} Ge _{0.35} Nb _{3-0.75} Ti _{0-2.25}	20.1-4, 7-6.2 (annealed) 18.5-1.37-1.8 (as cast)				885 1173

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Al _{0.65} Ge _{0.35} Nb _{3-0.75} Zr _{0-2.25}	20.2-5.3-10.3 (annealed) 18.5-5.1-6.1 (as cast)				885 1173
Al _{1-x} Ge _x Th ₂	0.2-<0.1		C16		1377
Al _x Ge _{1-x} V ₃ (Anneals critical)	5.9-13.9		A15		894 792 1808 1015 890
Al _{0-0.25} Ge _{1-0.75} V ₃	6.5-12		A15		1832
Al ₁₋₀ Ge ₀₋₁ V ₃	~12-12.5-6				1369 1446 1073
Al _{0.6-0} Ge _{0.4-1} V ₃ (no order observed)	11.5-12.5-6.5 Max. at Ge _{0.6}				1731
Al _{0.3} In _{0.7} La ₃	9.42		L1 ₂		1564
Al _{1-0.67} In _{0-0.33} Nb ₃	18.4-16.0		A15		1072
Al _{0.046} In _{0.151} Sn _{0.803}	3.652 (Annealed) 4.38				1201
Al ₁₁ La ₃			ORTHO	1.3	1631
Al ₄ La				1.15	711
Al ₂ La	3.237, 3.26, 3.305		C15		1425# 1424 486 1314 953 1428# 658
Al ₂ La(RE) _x (RE=Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb)	Decreases observed				794
Al ₂ La (P to 18, 20 kbar)	Decreases ~0.3K		C15		1924 1429
Al ₂ La		HF			1422
AlLa				0.33	658
AlLa ₃	6.16	HF	DO ₁₉		943 918 658
Al ₂ La _{1-0.986} Tb _{0-0.014}	3.24-0.6	HF			1678 1428# 1429
Al ₂ La _{0.994-0.998} Tb _{0.006-0.002} (P to 18 kbar)	2.13-2.875 (P decreases ~0.3K)				1924
AlLu ₂			C15	1.02	270
AlLu ₃				1.1	659
Al ₂ Lu			C15	1.02	658
Al ₃ Mg ₂	0.84		CUB		270 084
Al ₂ Mg ₃			A12	0.35	270
AlMg _{0-0.0106}	T _c ¹ (-0.058)				1506 856# 320 319 435#
Al _{0-0.9} Mg _{1-0.1}	1.18-1.63-<0.03				1604
Al _{0.82} Mg _{0.18}	1.63		A1		1604

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Al_{0.61-0.39}Mg_{0.39-0.61}$	0.7-<0.03		A12		1764 1604
$Al_{0.61}Mg_{0.39}$	0.85		HEX		1604
$Al_{0.11}Mg_{0.89}$				0.013	1340
$Al_{\sim 0.6}Mg_{0.4}$ (Deposited 0.4K)	1.6-1.7				∇1764
$Al_{0.39}Mg_{0.61}$	1.5-1.6				∇1604
$Al_{1-0.999}Mn_{0-0.00125}$ (P to 22 kbar)	1.17-0.51 (P decreases further)				1519 598 1357 951 673 421
$AlMn_{0-0.0018}$	$T_c' (-0.68)$	Data given			588
$AlMn_{440, 900}$ ppm	0.843, 0.594	75.6, 53.3			1449#
$Al_{12}Mo$			CUB	1.02	270
Al_5Mo			HEX	1.15	412 712
$AlMo_3$	0.58		A15		125 181 142 270
$AlMo_{0-3}Nb_{3-0}$	16.3-<2		A15		1874
$AlMo_6Pd$	2.1				427
$Al_{0.5}Mo_5S_6Sn$	14.2, 13.6	HF			1597 1664 1725
$Al_{0.2}Mo_5S_6Sn$		HF			1759
$Al_{0-0.12}Mo_{6.35}S_8Sn_{1.2}$	11.8-14.3	HF			1759
AlN	1.55?		B4		558
AlN (Very Thin, 14 layers N_2)	T_{co}/T_c given				∇1195
Al_2NNb_3	1.3		A13		632
$AlN O(24-117\text{Å})$	$Al T_c$ depressed				∇1195
Al_3Nb			DO_{22}	1.20	412
$Al_{0.33}Nb_{0.67}$	8.5-13.5		$D8_b$		557 125 497 1810
$AlNb_3$ ("Splat" cooled)	3.1		A2		1795
$AlNb_3$	18.8-18.6	HF	A15		1215# 787 1551 1339 1660 1483
$AlNb_3$	18.52-18.2				939 1750 1064 1176# 1066 1693#
$AlNb_3$	18.1-17.11				1075 254 125 1801 1164 1976 497 1101 880 1440 447 1421 311 479 497 513 798 142
$Al_{0.25-0.18}Nb_{0.75-0.82}$	18.3-17.0				1752 1432

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Al_{0.2-0.26}Nb_{0.8-0.74}$	13.5-17.3				1749
$Al_{0.215}Nb_{0.785}$	17.97		Single phase		859
$AlNb_3$ (Versus neutron irradiation; reversible)	18.6-3.5	HF			1660
$Al_{0-0.5}Nb_{1-0.5}$ (Sputtered or quenched)	9.3-0.7		A2		∇ 1432
$Al_{0-0.34}Nb_{1-0.66}$ (Sputtered)	9.3-8-16-15				∇ 1432
$Al_{0.21-0.25}Nb_{0.79-0.75}$ (Sputtered)	16.0-16.6		A15		∇ 1432
$AlNb_3$ (4000Å, various)	17.4, 16.6-9.3				∇ 1410 ∇ 1276
$AlNb_3$ (P study)	1.75. decreases. then to 18.1				1705 1079
$AlNb_2Ni$	4.2				1888
$AlNb_3Ni_{0-0.01}$ (Weight fraction)	17.4-17.7-15.5	HF			1753
$Al_{0.04}Nb_{0.895}O_{0.06}$	7.10	HF			1667
$Al_{0.01}Nb_{0.97}O_{0.02}$	8.30	HF			1667
$Al_{0.8-0.1}Nb_3Sb_{0.2-0.9}$	16.74-3.92		A15		801
$Al_{0.95}Nb_3Sb_{0.5}$	17.81		A15		801
$Al_{0.9}Nb_3Sb_{0.1}$	18.06-17.4		A15		801
$Al_{0.25-0.18}Nb_{0.75-0.78}Si_{0-0.04}$	18.3-18.6-18.4				1752
$Al_{0.95-0.7}Nb_3Si_{0.05-0.3}$	18.05-16.9				1976
$Al_{0.22}Nb_{0.75}Si_{0.3}$	19.2				1821
$Al_{1-0}Nb_3Si_{0-1}$ (~20,000Å)	14.5-8		A15		∇ 1954
$Al_{0-1}Nb_{0-4}Si_{1-0}V_{3-0}$	16.5-4.0-16.7		A15		893
$Al_{1-0}Nb_3Sn_{0-1}$	17.2-13.5-18.2		A15		1236 1812 1072 419 311
$Al_{0-0.1}Nb_3Sn_{1-0.9}$	17.9-18.58-18.1		A15+		1115
$Al_{0-0.2}Nb_3Sr_{1-0.8}$	18-18.2-17 (Resistance meas.) 18-16.65				1982
$Al_{0.5}Nb_3Sn_{0.5}$	15.8(Annealed)				1404 1236 270
$AlNbSn$	17.45		A15		1115
$AlNb_{2.85-2.25}Ti_{0.15-0.75}$	15.2-8.35		A15		1976
$Al_{0.05-0.25}Nb_{0.05-0.45}Ti_y$	2.95-9.10				1862
$Al_{0.27}Nb_{0.73-0.48}V_{0-0.25}$	17.5-14.5		A15		497
$Al_{0.27}Nb_{0-0.50}V_{1-0.50}$			CUB	4.2	497
$AlNb_{2.1}V_{0.9}$	12.5, 13.4(Annealed)		A15		1073
$AlNb_{2.7}V_{0.3}$	15.4, 16.7(Annealed)		A15		1073

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$AlNb_{2.94-2.25}V_{0.06-0.75}$	16.7-13.0		A15		1976
$Al_{0.175-0.23}Nb_{0.775-0.725}Zr_{0-0.075}$	18.3~10				1980
$Al_{0.23}Nb_{0.75}Zr_{0.013}$	18.3				1980
$Al_{0.175}Nb_{0.775}Zr_{0.05}$	~10(Broad)				1980
$Al_{1-x}Ni_x$	Data given				873 572#
AlO_x (~15-350Å)	1.2-2.3-1.4				∇454 ∇224
$Al+Al_2O_3$ (2,000-319,000Å)	0.8-2.69	HF			∇1451 ∇1622
Al_2O_3 -Nb(Cermet films)	4.43-5.19				∇1554
Al_3Os_4	5.5				1431#
Al_2Os				1.1	1431 711
Al_3Os_2				1.1	1431 711
Al_3Os	5.9				173
$AlOs$	0.39		B2		270 173
$Al_{13}Os_{4-3}Ru_{0-1}$	5.5~2				1431#
$AlPb_x$ (Layered films)					∇512
Al_3Pd_4Si			B20	1.02	270
Al_2Pt	0.55-0.48		C1		486 037
$AlPt$			CUB	0.34	486
$Al_{0-0.05}Pu_{1-0.95}$				1.50	226
$Al_{12}Re$			CUB	1.15	712 412
Al_6Re	1.85				711
$AlRe$			B2	1.15	712 412
Al_5Re_{24}	3.35		A12		412 557
$Al_{13}Ru_4$			MONO	1.1	1431#
$AlSb$ (P~125kbar)	2.8				1104
$Al_{0-0.3}Sb_{1-0.7}V_3$	<2-4		A15		1832
$Al_{1-x}Sb_xV_3$	4.5-7.2		A15		890
Al_2Sc			C15	1.02	270 658
$AlSc_3$				1.1	659
$Al_{1-x}Si_x$	$T_c' (-0.019)$				746 319
$Al_{0-1}Si_{1-0}V_3$	17-5		A15+		890 1369 1983
$Al_{0-0.13}Si_{1-0.87}V_3$	16-12.5		A15		1832
$Al_{0.1}Si_{0.9}V_3$	16.1(Annealed)		A15		1073
$Al_{0.2}Si_{0.8}V_3$	15.7(Annealed)				1073
$Al_{0-0.007}Sn$	3.72-3.692	HF			850
$Al_{0.152}Sn_{0.848}$	3.690(Annealed)				1201
$Al_{1-0}Sn_{0-1}$ (Deposited 4, 2K)	3.5-6.7-4.7				∇1732 ∇1134

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Al ₁₋₀ Sn ₀₋₁ V ₃	~5.5-6-4		A15+		1369 890
Al ₃ Ta			DO ₂₂	1.20	412
AlTa ₃			D8 _b	1.02	270
AlTa ₃ ("Splat" cooled)	1.59		A2		1795
Al ₃ Th	0.2, 0.75		DO ₁₉		1373 270
Al ₂ Th			C32	0.35	270
AlTh ₂	0.09		C16		1377 270
Al ₂ Th ₃	2.6		TET		927
Al ₃ Th _{1-0.8} Y _{0-0.2}			DO ₁₉	0.05	1373
Al _{1-x} Ti _x	T _c ' (-0.04)				1357 673
Al _{0.990} Ti _{0.004} (Rapid quench)	T _c ' (-0.16)				1507
Al ₃ Ti			DO ₂₂	1.02	270
Al _{0.03} Ti _{0.81} V _{0.16} (Various anneals)	3.5-5.1				1803
Al _{0.1-0.15} Ti _{0.15-0.69}	2.05-3.62		CUB		514#
V _{0.18-0.74}					
Al _{0.25,0.3} Ti _{0.525,0.49}			CUB	1.4	514#
V _{0.255,0.21}					
Al ₂ U			C15	1.12	021
Al ₃ U			L1 ₂	0.07	715 1677#
Al _{1-x} V _x	T _c ' (-0.08)				1357 673
Al _{0.9945} V _{0.0055} (Rapid quench)	T _c ' (-0.33)				1507
Al ₃ V			DO ₂₂	1.20	412 447
AlV ₃			A2	3.0	1369 1455
AlV ₃ (Possible Si additions)	10.3, 11.65		A15		824 894 792
Al _{0-0.12} V _{1-0.88}	5.20-1.73	1446-408			1890# 572#
Al _{0.108} V _{0.892}	1.82		CUB		514#
Al _{0.188-0.402} V _{0.812-0.598}			CUB	1.4, 4.2	514# 497
AlV ₃ (with additions)					1455
AlV ₃ (Deposited 350-450C)	9.6, 10.3 Max.				∇1363 ∇1438
Al ₅ Y ₂				1.55	427
Al ₂ Y			C15	0.34	127 486 658
Al ₂ Y ₃				1.15	711
AlY				1.15	711
AlY ₂				1.15	711
AlY ₃				1.1	659
Al ₃ Yb	0.94		L1 ₂		715

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Al_2Yb			C15	0.06	1372
$AlZn_{0-0.01}$	$T_c'(-0.0444)$				319 320 746
$Al_{1-0.8}Zn_{0-0.2}$	$T_c'(-0.12\pm 0.18)$ (Quenched)	Data given			1794
	$T_c'(-0.07\pm 0.10)$ (Aged)				
$Al_{0.992}Zn_{0.0078}$	1.132				435#
$Al_{0.85}Zn_{0.15}$		HF			1793
Al_xZn_{1-x}	0.5-0.845				624
Al_xZn_{1-x}	$T_c'(-0.03, 0.0+)$				598
Al_2Zn_2Zr			$L1_2$	0.08	1372
Al_3Zr			DO_{23}	1.02	270
Al_2Zr	<0.35		C14		270
$AlZr_3$	0.73		$L1_2$		270
$Am_{0.01}Si_2Th$	2.66				1504
As(99.9999%; P study)	0.31-0.5(220-140 kbar)		A7		898 774 245
	0.2-0.25(~140-100 kbar)				
	<0.1 (~100)				
AsAu(Eutectic)				1.9	099
$As_{0.15}Bi_{0.15}Nb_3Sn_{0.7}$	18.07				1982
Δ_sBiPb	9				111
$AsBiPbSb$	9				111
As_2CdGe (P of 60-70 kbars)	2.84-3.02		TET+		867
As_2CdSn (Prepared ~60 kbar)	1.79-2.29		B1		865
As_2Co			C18	1.1	262
$AsCo$			B31	1.1	262
As_2Cu				1.57	002
AsCu(Eutectic)				2.2	099
$AsCu_3$				1.28	011 084
$As_4Cu_{18}Sb_3$			CUB	0.35	270
$As_{0.4}Fe_{0.6}$				1.30	084
$AsGa$ (P = 260 kbar)	4.8				1730
$As_{0.15}Ga_{0.15}Nb_3Sn_{0.7}$	18.01				1982
AsGe(Prepared high P & Temp.)	3-3.5				891
AsGeMo			MONO	0.035	1508
AsGeRe			MONO	0.33	1508
AsGeTe(See Table 4)					
AsGeW			MONO	0.035	1508

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
As_2Hf			C23	1.1	1583
$AsHf$			B_1	1.1	1583
$As_{0.15}In_{0.15}Nb_3Sn_{0.7}$	17.99				1982
$AsInTe$ (See Table 4)					
$AsIr$				0.35	491
$AsIr_2$				0.35	491
As_2Mo	0.41		MONO		1508 1584 084
As_3Mo				1.1	1583
As_2Nb			MONO	0.012	1508 1584
$As_{0.15}Nb_3Pb_{0.15}Sn_{0.7}$	18.05				1982
$As_{0-0.3}Nb_3Sn_{1-0.7}$	18-17.9				1982 290
$As_{0.15}Nb_3Sn_{0.85}$ (Sintered)	17.98				1982
$As_{0.15}Nb_3Sn_{0.7}Tl_{0.15}$	17.98				1982
$AsNi$				1.28	011 084
$As_{0.5}(Ni_{0.125})Pd_{0.375}$ (Ref. 262 suggests due to As_2Pd_2)	1.6, 1.34				054 035 262
$AsOs$			Like OsP	1.13	1582
$AsPb$ (Eutectic)	8.40				085 111
$AsPd$			C2	1.02	035 054
$AsPd_2$ (High Temp.)	1.70		C22		491 262 530
$AsPd_2$ (Low Temp.)	0.60		HEX		491 530
$AsPd_3$			DO_e	0.3	530 491 262
As_2Pd_5	0.46				491 530 262
As_2Pd				1.1	530
As_2Pd_3				1.4	427
As_3Pd_5				1.9	262
$AsPd_7$				1.1	530
$AsPdSe$			C2	1.2	413 414
As_2Pt				0.35	491
As_3Pt_2				0.35	491
As_7Re_3			$D8_f$	0.3	1584
$AsRh$	0.58		B31		491
$AsRh_{1.4-1.6}$	0.56-0.03		HEX		491
As_3Rh_5				1.1	262
$AsRh_2$			C1	1.1	1583 262
$AsRu$				0.35	491 262
$AsRu_2$				0.35	491 262

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$As_{0.26}Sb_{0.74}$				1.32	084
$As_{0.25}Se_{0.75}^Y$	0.72-0.78		B1		1219
AsSn(See Table 4)					
AsSn(Eutectic)	4.1, 4.2				085 111
AsSnTe (See Table 4)					
$As_{1-0.1}SnTe_{0-0.9}$	~3.5				1605
As_2Ta			MONO	0.035	1508 1583
As_7Tc_3			$D8_f$	0.3	1584
As_2Th			C23	1.2	1583
As_2Ti				1.1	1583
AsTi			Bi	0.30	1584
AsV_3			A15	1.0	1578 015 128 117
As_2V			MONO	0.33	1508 1583
As_2W	~0.9		MONO		1508 1583
As_3W_2				1.1	1583
AsW				1.4	427
AsY			B_1	0.31	1584
AsZn				1.3	427
As_2Zr			C23	1.1	1583
AsZr			Bi	1.1	1583
Au(99.999%)			A1	0.002	1830 374 012 487 1617 1633
$Au_{0.2}B_5Mo_{1.8}$	4.5		C32		767
Au_5Ba	0.4-0.7		$D2_d$		486 449
AuBe	2.64		B20		138
$AuBe_5$			$C15_b$	1.02	270 037
AuBe	0.91				1057
$Au_{0.03-0.15}Be_{0.97-0.85}$	1.80-1.29- 2.79, 1.52		HEX		1057
Au_2Bi	1.84, 1.70		C15		281 282 015 085 120 153
$Au_{0.1}C_{1.3}Y_{0.9}$	10.1		$D5_c$		870
Au_5Ca	0.34-0.38		$C15_b$		486 535
$Au_{0.72-0.69}Cd_{0.28-0.31}$			A1	0.014	1617
Au_5Cd_8				1.28	084
$Au_{0.25}Cu_{0.75}, Au_{0.5}Cu_{0.5}$ (Impurities)				1.11	076

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
AuGa	1.2		B31		486 270
AuGa ₂	1.12-1.05(866)		C1	0.34 (486)	866 486 1011
AuGa ₂ (P~6 kbar)	1.9				1534
Au _{0.85-0.98} Ga ₂ Pd _{0.15-0.02}	1.79-1.25		C1		866# 1011
Au _{0.725-0.40} Ge _{0.275-0.6}	0.99-1.63		Data given		487
AuGe				1.4	908
Au _{0.3-0.33, 0.75-0.92} Ge _{0.7-0.67, 0.25-0.08}			HEX, CUB	0.32	487
AuGe(Laser pulse preparation)	2.25-2.7				∇908
Au _{0.3-0.8} Ge _{0.7-0.2} (Deposited 4K; 200-600Å)	2.7-3.6-2.2				∇1082 1179
Au _{0.5} Ge _{0.5} (Deposited 4K)	3.6				∇1179
Au _{0.41} Ge _{0.59} (Deposited 4K)	2.2, <2.2				∇1867
Au _{0-0.35} H _{≈0.9} Pd _{1-0.65} (H Implanted)	8.6-14-11.5				1901-1985
AuIn _{1.0, 2.8} Ti ₃			CUB	1.6	1480
Au _{0.75} Hg _{0.25}				1.28	084 091
Au _{0.8-0.85} Hg _{0.2-0.15}				0.32	489
Au _{0.88} In _{0.12}			A1	0.014	1617
Au _{0.84-0.8} In _{0.16-0.2}	0.04-0.33(Broad)		HEX		1617
AuIn ₂	0.22	16.6	C1		1863 1993# 866# 1011 486 229
AuIn	0.6-0.4				486 229
Au _{0.9} In ₂ Pd _{0.1}				0.36	866
Au ₅ K			D2 _d	0.32	394 486
AuLa				0.33	658
Au _{0.33} La _{0.67}	3.2				1908
Au _{0.24} La _{0.76} (Rapid quench)	4.0(Crystalline) 3.3	HF			1908
Au _{0.22} La _{0.78} (Rapid quench)	3.4				1908
Au _{0-0.4} La _{1-0.6}	6(broad)-2				1908
AuLu	<0.35		B2		658
AuMg			B2	0.35	270 173
Au ₂ Na			C15	0.34	270 486
AuNa ₂			C16	0.06	1377
AuNb ₃	11.22		A15		1466

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
AuNb ₃ (Various heat treatments)	11.5-8.99		A15		492 128 137 117 568 707 922# 572#
AuNb ₃	1.2		A2		568
Au _{0.25} Nb _{0.75} (Sputtered, 10,000Å)	11.2, 10.6		A15		1438, 1410
Au ₁₋₀ Nb ₄ Pt ₀₋₁	8.7-10-5.5(Cast) 7.7-8.3-5.2(Annealed)		A15		1859
Au ₁₋₀ Nb ₃ Pt ₀₋₁	9.5-10-8.5(Cast) 10.5-12-9(Annealed)		A15		1859 1944
Au ₁₋₀ Nb _{2.33} Pt ₀₋₁	9.3-10.3-8.2(Cast) 10.7-11.5-7-6.5 (Annealed)		A15		1859 1944
Au ₁₋₀ Nb ₃ Pt ₀₋₁	8.3-9.1(Quenched) 11.3-12.7-10.7 (Annealed)		A15		934
Au _{0.7} Nb ₃ Pt _{0.3}	12.5(Annealed)		A15		922#
Au _{0.98-0.02} Nb ₃ Rh _{0.02-0.98}	10.9-11-2.53		A15		492
Au _{1-x} Nb ₃ Sn _x	17.8 Max.				420
AuNb ₃ (1-x)V _{3x}	1.5-11.0		A15		568 572#
Au ₂ Pb	1.18, 7.12-5.98		C15		486 640
AuPb ₂	3.10		C16		1377 521 475 087 229
AuPb ₃	4.40				521 475
Au _{1-x} Pb _x	<1.2-7.3				088 229 085 086 111
Au _{0-0.12} Pb _{1-0.88}	T _c '(-0.75)				∇386
Au _{0.1-0.7} Pb _{0.9-0.3}	7.2-1.5				∇1100
AuPb ₂ , AuPb ₃ (Layers 130- 1000Å)	4.3, 4.25				∇521
Au ₁₋₀ Pb ₂ Pd ₀₋₁	3.2-3.9-2.7- 3.5-3		C16		1377
Au _x Pd _{1-x}				1.0	037
Au _{0.95} Pd _{0.5} Ga ₂	1.75-1.69		C1		866#
Au _{0.30} Pd _{0.033} Te _{0.666} (Rapid quench)	2.6		CUB		1116
Au _{0.167} Pd _{0.166} Te _{0.667} (Rapid quench)	4.6		CUB		1116
Au _{1-0.4} Pd _{0-0.6} Te ₂	2.6-1.6- 4.5-3.8		CUB		1718
Au _{1-x} Pt _x				1.0	037 572#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Au _{1-x-y} Pt _x V _y					1944
Au ₅ Rb			D2 _d	0.32	394 486
Au _{0.5} Rh _{0.4} Ti _{0.91}	3.0				1060
AuSb ₂	0.58		C2		270 229 427
Au _{0.25} Sb _{0.75} (Rapid quench)	6.7		CUB		1116
Au ₅ Sn	1.1-0.7		A3		486
AuSn	1.25		B8 ₁		486
Au _{0.2} Sn _{0.8}	2.38		ORTHO		229 222
Au _{0.88-0.83} Sn _{0.12-0.17}	0.21-0.61		HEX		1617
Au _{0.45-0} Sn _{0.55-1} (Weight fraction)	2.48-3.71				088 229 086 071
Au _{0.92} Sn _{0.08}				1.32	084
Au _x Sn _{1-x}	2.0-3.8				7577
Au _{0.33} Ta _{0.67}			D8 _d	1.2	276
AuTa ₃ (Rapid quench)	0.82		A2		1795
AuTa _{4.3}	0.51-0.58		A15		1015
AuTe ₂				0.012	1584 770 427
Au ₃ Te ₅	1.62				487
Au _{0.37-0.15} Te _{0.63-0.85} ("Splat" cooled)	1.6-3.0- 1.9-2.4		CUB		1643
AuTh ₂	3.65		C16		1377 173
AuTi ₃			A15	0.015	707 980 1480 010 522
AuTl ₂	4.25-4.35		C16		1959
Au _{0.27} Tl _{0.73}	2.04				070
AuTl (Eutectic)	1.92				085
Au _{0.28-0.60} Tl _{0.72-0.40} ("Splat" cooled)	2.35-3.75		Amorphous		1959
Au _{0.18-0.27} V _{0.82-0.73} (Various anneals, order changes)	0.3-3.0		A15		1772
Au _{0-0.29} V _{1-0.71}	5.3-0.10-<0.1		A2		1772
Au _{0.45-1} V _{0.55-0}			A1	1.2	1772
AuV ₃ (Long range order changes)	~0.8-2.87		A15		1852# 1446
AuV ₃ (Order changes)	<0.015-3.22	HF	A15		1160 1088 1446 987 948# 857 707 572# 578 1944 270 137

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Au_{0.23}V_{0.77}$ (As cast, levitated)	0.66				707
Au_xZn_{1-x}	0.5-0.845				624
$Au_{0.85}Zn_{0.15}$			A1	0.014	1617
$AuZn_3$	1.21				270
Au_5Zn_8				1.28	084
$Au_{0.12-0.05}Zr_{0.88-0.95}$	2.74-2.79-1.65		A3		032
$AuZr_3$	0.92		A15		270
$AuZr_3$			$D0_b$	1.02	270
$B_{0.86}Ba_{0.14}$				1.28	011
B_4C				1.28	011
$BCMo_2$	7.1, 5.4	HF	ORTHO		966# 635 497
$B_{0-0.2}C_{1-0.8}Mo$	14.3-12.5		B1		1006 573 497
B_6Ca			$D2_1$	1.28	558 1815
B_6Ce			$D2_1$	0.35	705 1815 558
$B_{2x}CeRu_{2(1-x)}$	Decreases from 6.2		C15		1569
$B_6Ce_{0.01}Y_{0.99}$	T_c (-0.8)				1014
$B_{12}Ce_xZr_{1-x}$	T_c (decreases)				782
BCo_2			C16	0.06	1377
B_2Cr				1.28	011
BCr			B_f	1.28	011
Cr_2B			C16	1.20	010
B_6Dy				0.35	705
$B_6Dy_{0.01}Y_{0.99}$	T_c (-0.65)				1014
$B_{12}Dy_xZr_{1-x}$	T_c (decreases)				782
$B_{12}Er$				0.35	705
$B_6Er_{0.01}Y_{0.99}$	T_c (+0.25)				1014
$B_{12}Er_xZr_{1-x}$	T_c (decreases)				782
B_6Eu			$D2_1$	0.35	705 558 1815
$B_6Eu_{0.01}Y_{0.99}$	T_c (-0.3)				1014
RFe_2			C16	0.06	1377
B_6Gd			$D2_1$	0.35	705 558 1815
$B_{12}Gd_xZr_{1-x}$	T_c (decreases)				782
BHf	3.1		B1		1815 558 020
$B_5Hf_{0.2}Mo_{1.8}$	8.4-8.1		C32		767
$B_5Hf_{0.2}Nb_{1.8}$	3.6-2.6		C32		767
B_6Ho				0.35	705

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$B_{12}Ho$				0.35	705
$B_6Ho_{0.01}Y_{0.99}$	$T_c'(-0.4)$				1014
$B_{12}Ho_xZr_{1-x}$	T_c' (decreases)				782
BIr				1.28	011
B_6La			$D2_1$	1.30	1815 558 705
$B_6La_{1-0}Y_{0-1}$	6.8- <1.5		CUB		1840
$B_{12}Lu$	0.48				705
BMn_2			C16	0.06	1377
$B_{2.5}Mo$	7.45-5.2		C32		767
$B_{0.72}Mo_{0.28}$			$D8_1$	1.28	011
B_2Mo			C32	1.0	767
BMo			B_f	1.28	011 497 444
BMo			B_g	1.28	011 048 040
BMo_2	5.85, 5.07		C16		1105 1377 1020 011
$B_5Mo_{0.2}Nb_{1.8}$	4.3-4.0		C32		767
$B_5Mo_{1.7}Nb_{0.3}$	8.3-8.2		C32		767
$BMo_{2(1-x)}Re_{2x}$	5.1-4.3-5.3-5		C16($x \leq 0.6$)		1377
$B_{\sim 3}Mo_{\sim 6}Sb_{\sim 8}Sn$	15.0				1309
$B_5Mo_{1.8}Sc_{0.2}$	8.8-8.3		C32		767
$BMo_{1.5}Ta_{0.5}$	1.81		C16		1377
$BMo_{1.75}Ta_{0.25}$	3.05		C16		1377
$B_5Mo_{1.7}Ta_{0.3}$	7.0-5.9		C32		767
$B_5Mo_{1.7}Ti_{0.3}$	7.1-5.5		C32		767
$B_5Mo_{1.7}V_{0.3}$	5.5-5.0		C32		767
$B_5Mo_{1.9}Y_{0.1}$	8.0-7.5		C32		767
$B_5Mo_{1.9}Zr_{0.1}$	8.9-8.4		C32		767
$B_2Mo_{1-0.75}Zr_{0-0.25}$	$<1-10.3$				767
$B_5Mo_{1.69}Zr_{0.31}$	11.2		C32		767
BN				1.28	011
$B_xN_{1-x}Nb;V$					1238
$B_{2.5}Nb$	6.4		C32		767
B_2Nb			C32	1.0	767 810 011 572#
BNb	8.25		B_f		011 444
$B_{0.57}Nb_{0.43}$			$D7_b$	1.28	011
B_2Nb_3			TET	0.1	927
B_2Nb					1951#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$B_5Nb_{1.8}Ru_{0.2}$	6.0		C32		767
$B_5Nb_{1.9}Sc_{0.1}$	6.6		C32		767
$B_5Nb_{1.8}Th_{0.2}$	7.0		C32		767
$B_5Nb_{1.9}Ti_{0.1}$	4.0		C32		767
$B_5Nb_{1.8}V_{0.2}$	2.5		C32		767
$B_5Nb_{1.9}Y_{0.1}$	9.3		C32		767
$B_5Nb_{1.8}Zr_{0.2}$	5.9		C32		767
B_6Nd	$\sim 3(1815)$		$D2_1$	0.35	705 558 1815
$B_6Nd_{0.01}Y_{0.99}$	$T_c'(-0.15)$				1014
$B_{12}Nd_xZr_{1-x}$	T_c' (decreases)				782
BNi_2			C16	0.07	1377
B_2Os			C32	1.02	270
$B_{\sim 1.5}Pd$ (B implant)	3.8 Max.				164
B_6Pr			$D2_1$	0.35	705 1815 558
$B_6Pr_{0.01}Y_{0.99}$	$T_c'(-0.1)$				1014
$B_{12}Pr_xZr_{1-x}$	T_c' (Decreases)				782
BPt				1.28	011
BRe_2	4.6, 2.8				465# 136 572#
$BRe_{2(1-x)}W_{2x}$	4.2-6-3.2		C16(x \geq 0.25)		1377
BRh				1.28	011
BRh_2			ORTHO	1.0	141 270
B_3Rh_7			$D10_2$	0.35	270
B_3Ru_7	2.58		$D10_2$		173
BRu_2				1.20	010
$B_{12}Sc$	0.39				705
B_4Sc			HEX	1.34	1815 558
B_2Sc			C32	1.30	1815 558
B_6Sm			$D2_1$	1.28	1815 558
$B_6Sm_{0.01}Y_{0.99}$	$T_c'(-0.4)$				1014
$B_{12}Sm_xZr_{1-x}$	T_c' (decreases)				782
B_2Ta			C32	1.28	011
B_4Ta_3			$D7_b$	1.28	011
BTa	4.0		B_f	1.28	1815 558 011
				(011)	
BTa_2			C16	0.06	1377 010
B_2Ta_3			TET	0.1	927
$BTa_{1.25}W_{0.75}$			C16	0.06	1377

TABLE 2 (Cont'd). Properties of Superconductive Materials.

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$B_{1.5}Ta_{0.5}W$	0.25		C16		1377
$B_{2-0}Ta_{0-2}W$	<0.2-0.4-<0.2-3.2		C16(x≥0.6)		1377
B_6Tb			D2 ₁	0.35	705 1815 705
$B_6Tb_{0.01}Y_{0.99}$	$T_c'(-0.9)$				1014
$B_{12}Tb_xZr_{1-x}$	T_c' (decreases)				782
B_6Th	0.74				705 558 1815
B_2Th				1.77	040
BTh				1.20	010 040
B_2Ti			C32	1.28	011 522
BTi			B27	1.20	010 522
$B_{12}Tm$				0.35	705
$B_6Tm_{0.01}Y_{0.99}$	$T_c'(-0.4)$				1014
$B_{12}Tm_xZr_{1-x}$	T_c' (decreases)				782
BV			B _f	1.20	010
BV ₂				1.20	010
B_2V_3			TET	0.1	927
B_5W_2				1.28	011
BW			B _g	1.28	011
BW ₂	3.22, 3.1		C16		1377 1105 1020 474 010
$B_{12}Y$	~4.7				705
B_6Y	6.5-7.1(705)		D2 ₁	1.28 (1815)	705# 1815 558
$B_6Y_{0.99}Yb_{0.01}$	$T_c'(-0.2)$				1014
B_6Yb			D2 ₁	1.28	558
$B_{12}Yb_{0.01}Zr_{0.99}$	4.4				1014
$B_{12}Zr$	6.0		CUB		782 1484# 705# 1851
B_2Zr			C32	1.80	040
BZr	3.4		B1		1815 558 042
Ba(99.5%)			A2	0.014	1233 1214 023
Ba(Commercial grade)					
I(0-55kbar)	<1			<1	1453 902 777 612 1702
II(~55-85 kbar)	~1-1.8				
III(~85-144 kbar)	1.8-5				
IV(~144-175 kbar)	5-5.4				
IV(148-192 kbar)	4.5-5.1				1702
Ba(Deposit 4.2K, 1000Å)	3.0	HF			▽710

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
BaBi ₃	5.80		TET		715 011 095 270
BaHg	2.32-2.29		B2		1232
BaOSrTi(See Table 4)					
BaOTi(See Table 4)					
Ba _{~0.13} O ₃ W	1.9		TET		575
Ba _{0.14} O ₃ W	<1.25-2.2		HEX		644
Ba _{0.1} Pb ₃ Sr _{0.9}	1.75		TET		1372
BaPd ₂			C15	1.02	028
BaPt ₂			C15	1.02	028
BaRh ₂	6.0		C15		028
Be(Impurity 40 ppm)	0.026		A3		783# 580# 103
Be(Extrapolated to infinite thickness)	9.95				▽674
Be(Deposited 0.3K)	9.75-9				▽1903 ▽1649
Be(Deposited 4.2, 10K; to 600Å)	9.6				▽1474 ▽1948#
Be(Deposited 10K, 260Å)	9.6				▽1178
Be(Deposited 4.2, 10K; 100-1000Å)	9.2-6	HF			▽710 ▽699 ▽101 ▽1512 ▽395 ▽679 ▽144 ▽1327 ▽550
Be(Deposited 4.2K; 25-60-180Å)	6.4-8.6-5				▽899 ▽1479
Be(See Table 3)					
Be ₁₃ Ca			D2 ₃	1.38	1769
Be ₁₃ Ce			D2 ₃	1.4	1769
Be _{0.944-0.958} Co _{0.056-0.042}	2.44-2.54		A2		1057
Be _{0.944} Co _{0.056} (Slow cool)				0.45	1057
Be ₂₁ Co ₅ (arc melted)			D8 ₂	0.45	1057
Be ₁₂ Co			TET	1.15	1769 712
Be ₅ Co				1.15	712
Be ₁₃ Co ₀₋₁ Re ₁₋₀				9.9	1769
Be ₁₂ Cr			TET	1.4	1769
Be ₂ Cr			C14	1.4	1769
BeCr ₂			C14	1.75	427
Be ₂₂ Cr _x Re _{1-x}	~9.8				1769
Be _{0.92} Cu _{0.08}	0.84		A2		1057
Be _{0.89} Cu _{0.11}	1.11(arc melt or quench)		A2		1057
	0.44(Slow cool)				

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Be _{0.858} Cu _{0.142}	0.56		A2		1057
Be ₃ Cu			C15	1.4	1769
Be ₁₃ Cu ₀₋₁ Re ₁₋₀				9.9	1769
Be _{0.977} Fe _{0.023}				0.45	1057
Be _{0.95} Fe _{0.05}				0.45	1057
Be ₁₁ Fe				1.15	712
Be ₂ Fe			C14	1.4	1769
Be ₂₂ Ga	5.7				1769
Be ₁₃ Ga	5.6				1769
Be ₈ Ga	5.7				1769
Be ₆ Ga	6.0				1769
Be ₅ Ga	5.8				1769
Be ₃ Ga	6.7				1769
Be ₂ Ga	6.3				1769
Be ₁₃ Ga ₀₋₁ Re ₁₋₀				9.9	1769
Be ₁₃ Ge				1.4	1769
Be _{0.9} Ge _{0.1} (Deposited 10K; ~300Å)	9.3, 8.7				▽699
Be ₁₇ Hf ₂				1.15	712 1769
Be ₁₃ Hf				1.15	712 1769
Be ₁₃ In ₀₋₁ Re ₁₋₀				9.9	1769
Be _{0.95} Ir _{0.05}				0.45	1057
Be ₁₃ Ir				1.0	1769
Be ₅ Ir	1.5				1769
Be ₁₃ La			CUB	0.45	1964
Be ₁₃ Li ₀₋₁ Re ₁₋₀				9.9	1769
Be ₁₃ Lu			CUB	0.45	1964
Be ₁₃ Mg			D2 ₃	1.4	1769 1922
Be ₁₂ MgRe	10.1				1769
Be ₁₃ Mg ₀₋₁ Re ₁₋₀				9.9	1769
Be ₁₃ Mn				1.4	1769
Be ₁₂ Mn			TET	1.15	712 1769
Be ₈ Mn			C15	1.4	1769
Be ₂ Mn			C14	1.4	1769
Be ₂₂ Mn _x Re _{1-x}	~9.8				1769
Be ₂₂ Mo	2.545	HF	CUB		1922 566
Be ₁₃ Mo			TET	1.68	427
Be ₁₂ Mo			TET	1.38	1909 1922

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Be ₂ Mo			C14	1.4	1769 1922 427
BeMo ₃				1.15	712
Be _x Mo _{1-x} (Co-sputtered)	8.1 Max. (at x=0.34)				∇1565
Be ₁₃ Mo ₁₋₀ Re ₀₋₁				9.9	1769
Be ₂₂ Mo _{0.4} Re _{0.6}	8.6		CUB		1822
Be ₂₂ Mo _{0.3} Re _{0.7}	8.6		CUB		1822
Be ₂₂ Mo _{0.6} Re _{0.4}	8.3		CUB		1822
Be ₁₇ Nb ₂	1.47			1.38 (1909)	712 1909
Be ₁₂ Nb			TET	1.38	1909 1922
Be ₃ Nb				1.15	712
Be ₂ Nb	2.15				712
Be ₂ Nb ₃	2.3		TET		927
Be ₂ Nb _{1.5} Ta _{1.5}	1.7				927
Be ₈ Nb ₅ Zr ₂	5.2				427
Be ₂₁ Ni ₅	0.72(Arc melted) 0.78(Slow cool)		D8 ₂		1057 590
Be _{0.9} Ni _{0.1}	2.38(Arc melted)		A2		1057
Be _{0.9} Ni _{0.1}	0.58(Slow cool)		Compound		1057
Be _{0.934} Ni _{0.066}	0.88(Arc melted) 0.66(Slow cool)		Compound		1057
Be _{0.96} Ni _{0.04}	0.76(Arc melted)		Compound		1057
Be ₂₂ Os				1.0	1769
Be ₁₃ Os				1.0	1769
Be ₅ Os	9.2				1769
Be ₂ Os	3.07				712
Be _{0.95} Os _{0.05}	0.57		Compound		1057 590
Be _{0.9} Os _{0.1}				1.0	1769
Be _{0.8} Os _{0.2}	8.6				1769
Be _{0.1-0.7} Os _{0.9-0.3}				1.0	1769
Be ₂₂ Os _{0-0.005} Re _{1-0.995}	~9.8				1769
Be ₁₃ Os ₀₋₁ Re ₁₋₀				9.9	1769
Be _{0.86} Pb _{0.14}	9.7(Extrapolated bulk value)				∇1903
Be ₂₂ Pd				0.45	1057 1769
Be ₁₃ Pd				1.0	1769
Be ₁₂ Pd			TET	1.4	1769
Be ₅ Pd			C15 _b	0.35	270 1769 037
Be ₂₂ Pd _{0-0.005} Re _{1-0.995}	~9.8				1769

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Be ₁₃ Pd ₀₋₁ Re ₁₋₀				9.9	1769
Be _{0.95} Pt _{0.005}				0.45	1057
Be ₅ Pt	2.3				1769
Be ₁₃ Pt ₀₋₁ Re ₁₋₀				<9.9	1769
Be ₂₂ Pt _{0-0.005} Re _{1-0.995}	~9.8				1769
Be ₂₂ Re	9.33	HF	CUB		1390 566
	9.55(Annealed)				
Be ₂ Re			C14	1.4	1769 427
Be _{0.995-0.92} Re _{0.005-0.08}	8.9-9.75(Quenched)	HF			567# 1390
Be _{0.98} Re _{0.02}	9.75(Quenched)	HF	CUB		567 1390
Be _{0.957} Re _{0.043}	9.67(Annealed)				567#
	9.62 (Quenched)				
Be _{0.96} Re _{0.04}	9.50	HF			1390 590
					1057
Be ₂₂ Re _{0.95} Os _{0.05}	9.2	HF			1390
Be ₁₃ Re ₁₋₀ Rh ₀₋₁				9.9	1769
Be ₂₂ Re _{1-0.99} Ru _{0-0.01}	9.8-9.2	HF			1769 1390
Be ₁₃ Re ₁₋₀ Ru ₀₋₁				9.9	1769
Be ₁₃ Re ₁₋₀ Ti ₀₋₁				9.9	1769
Be ₁₃ Re ₁₋₀ V ₀₋₁				9.9	1769
Be ₁₃ Re ₁₋₀ W ₀₋₁				9.9	1769
Be ₂₂ Re _{0.95} W _{0.05}	9.45	HF			1390
Be ₁₃ Re ₁₋₀ Zr ₀₋₁				9.9	1769
Be ₄₉ Rh				1.4	1769
Be ₂₂ Rh				1.0	1769
Be _{0.95} Rh _{0.05}				0.45	1057
Be ₁₅ Rh				1.0	1769
Be _{8.5} Rh				1.4	1769
Be ₅ Rh				1.0	1769
Be _{4.4} Rh				1.4	1769
Be ₂ Rh	1.37				712 1922
					1769
BeRh				1.4	1769
Be ₂₂ Ru				1.0	1769
Be ₁₃ Ru	1.3				1769
Be ₁₇ Ru ₃				1.15	712
Be ₅ Ru				1.0	1769
Be ₂ Ru	1.35				712

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Be_{0.95}Ru_{0.05}$	1.47		Compound		1057 590
Be_7S_2				1.4	1769
$Be_{22,13,2}$				1.4	1769
$Be_{0.62}Si_{0.38}$ (Rapid quench)	$\sim 9-0$ (Very broad)				1784
$Be_xSi_{1-x}V_3$	17-15.6				1983
$Be_{12}Ta$			TET	1.38	1909 1922
$Be_{17}Ta_2$				1.38	1909
Be_2Ta_3	1.0		TET		927
$BeTa_2$			C16	0.06	1377
$BeTc$	5.21		CUB		566
$Be_{13}Th$			$D2_3$	0.04	1769 1964# 712
$Be_{17,12,4,2,1}Ti$				1.4	1769
$Be_{13,12}Ti$				1.15	712
Be_2Ti			C15	1.02	270
$Be_{13}U$			$D2_3$	0.04	1769 1909 1964
$Be_{22}W$	4.12	HF	CUB		1922 566
$Be_{13}W$	4.1		TET		427
$Be_{12}W$			TET	1.7	1922
$Be_{21}W_5$				1.15	712
Be_2W			C14	1.4	1769 427
$Be_{13}Y$				1.4	1769
$Be_{16}Zr$			$D2_3$	1.15	712
$Be_{13}Zr$			$D2_3$	1.15	1909 1769 712 427
$Be_{17}Zr_2$				1.15	712
Be_2Zr			C32	1.4	1769 427
Bi (I)			A7	0.05	012 078 1264
Bi (II) (25-27 kbar)	3.9	320(785) HF(437)			203 213 214 1701 1282 437 199 785
Bi III ($\sim 37, 27-28.4$ kbar)	6.55, 7.25	HF(437)			973 203 213 214 1282 1701 437 199
Bi IV (43, 43-62, 90-250;kbar)	7.0; 8.7-6.0				903 1702
Bi V (68, 81 kbar)	6.7, 8.3				903 780 904
Bi VI (90 kbar) (Exists from 92-101 kbar)	8.55				903 1701 904

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Bi VII (30 kbar?)	8.2				1701
Bi(690 Å, 750 Å)(Deposit 1.5, 4.2K)	6.17, 6.15				▽737 ▽1548 ▽1218 ▽1562 ▽1136 ▽078 ▽213 ▽215 ▽152 ▽251 ▽388 ▽395 ▽773 ▽602
Bi(500-30 Å)(Deposited at ^3He Temp.)	6.13-2.3				▽1893 ▽1545 ▽1868
Bi(50-~15 Å)	~5-~2				▽1259
Bi(Ne, Xe)(Deposit 10K)	Decreases				▽1229
Bi(Cr, Mn)(Deposited at low Temp)					▽296
Bi(470-2750 Å)(Deposit ~8K)	6.14	HF			▽1541 ▽1679
BiC				0.3	606
$\text{Bi}_{0.3}\text{C}_{1.45}\text{Y}_{0.7}$				4.0	870
$\text{Bi}_{0.1}\text{C}_{1.45}\text{Y}_{0.9}$	9.35		D5_c		870
Bi_3Ca	2.0				153 008 028 002
Bi_2Ca_3				1.38	008
$\text{Bi}_{0.6}\text{Cd}_{0.4}$ (Weight fraction)	0.53	Data given			1204
BiCd(Eutectic)				1.88	099
$\text{Bi}_{0.28}\text{Cd}_{0.19}\text{In}_{0.53}$ (Weight fraction)	5.85	HF			1917
$\text{Bi}_{0.5}\text{Cd}_{0.125}\text{Pb}_{0.25}\text{Sn}_{0.125}$ (Weight fraction)	8.20				109
$\text{Bi}_{0.5}\text{Cd}_{0.1}\text{Pb}_{0.27}\text{Sn}_{0.13}$		HF			402
$\text{Bi}_{0.396}\text{Cd}_{0.594}\text{Sn}_{0.0099}$ (Weight fraction)				1.3	1917
$\text{Bi}_{0.54}\text{Cd}_{0.20}\text{Sn}_{0.26}$ (Weight fraction)	3.69	HF			1917
Bi_2Ce				1.28	011 008
BiCe			B1	1.28	011 158
BiCo	0.49-0.42				606
$\text{BiCo}_{0.1}\text{Sc}_{0.9}$				1.1	262
Bi_2Cr				1.57	002
BiCr				0.3	606
Bi_2Cs	4.75		C15		052# 007 153
BiCs_3			CUB	1.5?	052 158
BiCs_2				1.5?	052

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
BiCu	2.20				154 099 197
Bi_xCu_{1-x} (Electrodeposited)	2.2				197
BiCu	1.40-1.33				606
$BiCu_3$				1.5?	095
BiCuMg			$C1_b$	1.28	011
BiFe				0.3	606
$Bi_{0.15}Ga_{0.15}Nb_3Sn_{0.7}$	18.04				1982
$Bi_{0-0.25}Ga_{0-0.25}Nb_3Sn_{1-0.5}$	18.05-18.3-17.4				1982
Bi_2Ge				1.28	011
$Bi_{0.15}Ge_{0.15}Nb_3Sn_{0.7}$	17.75				1982
$BiIn_2$	5.60	870	HEX		1198# 634 122 1978
$BiIn_2$ (Intrinsic Type II) (RRR=60-72)	5.87	590, HF			1978
BiIn			B10	0.5	634, 122
Bi_3In_5	~4.2, 4.1		Data given		1112 634
$Bi_{0.42-0.85}In_{0.58-0.15}$ (0-24 kbar)	7.3-7.8				1919
$Bi_{0.34-0.48}In_{0.66-0.52}$	4.0-4.1				634
$Bi_{0-0.05}In_{1-0.95}$	3.398-4.25	HF			1650 799
$Bi_{0-0.003}In_{1-0.997}$	$T_c'(-0.0129+0.0119)$				319 320
$Bi_{0.343}In_{0.657}$	5.55, 5.20 (30 kbar)				843
$Bi_{0.15-0.30}In_{0.85-0.70}$	5.3-5.4				634
$Bi_{0.1}In_{0.9}$	5.05				634
$Bi_{0.05}In_{0.95}$	4.65				634
$Bi_{0.025}In_{0.975}$ (0-18 kbar)	4.07-3.47				1247
$Bi_{0.02}In_{0.98}$	3.845	HF			1121 666 1612 544
$Bi_{0.019}In_{0.981}$	3.86	336			722
$Bi_{0.015}In_{0.985}$	3.725	HF			842 666
BiIn (Co-condensed 4.2K)	7.95 Max.	HF			∇ 1732 ∇ 1235 ∇ 1619 ∇ 1089 ∇ 822
$Bi_{0.15}In_{0.15}Nb_3Sn_{0.7}$	18.01				1982
BiIr				0.35	491
$BiIr_2$				0.35	491
Bi_2Ir	3.96-3.0(Quenched) ~2.3-1.7				606

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H _c (oersted)	Crystal Structure	T _n (K)	Refs.
Bi ₂ K	3.58		C15		153# 094 008 014 198
Bi ₂ K(0-10 kbar)	3.57-3.9-3.7	HF			897
BiK	3.6?				095
Bi ₂ K ₃				3.6	008
BiK ₃			DO ₁₈	1.40	008 153
BiLi	2.455		L1 _o		1351 153# 008 013
BiLi ₃			DO ₃	1.43	008
Bi ₂ Mg ₃			D5 ₂	1.4-1.5	008 158 060
Bi ₄₋₉ Mg	~1-0.70				606
BiMn			B8 ₁	0.3	606 011 000 158
BiMo				1.28	011
Bi ₃ Mo	3.7-3.0				606
BiNa ₃			DO ₁₈	1.40	008 198
BiNa	2.25		L1 _o		004 153# 198 014
BiNb ₃ (High P and Temp.)	2-4.5		A15		508 311
BiNb ₃			CUB	2.25	508
Bi _{0-0.3} Nb ₃ Sn _{1-0.7}	18-18.2-18.09				1982 311 299
Bi _{0.15} Nb ₃ Sn _{0.85} (Sintered)	18.23				1982
Bi _{0.15} Nb ₃ Sn _{0.7} Tl _{0.15}	18.12				1982
Bi ₃ Ni	4.06		ORTHO		008 062 011 153
BiNi	4.25		B8 ₁		008 037 153
Bi _x NiSb _{1-x}			B8 ₁	1.4	396
BiOs				0.3	606
Bi _{~0.65} Pb _{~0.35} (Weight fraction, eutectic)	8.8, 8.7	HF(402)			085 082 109 402 404 406
Bi _{0.5} Pb _{0.5}	8.4	HF			310 384 080
Bi _{0.45} Pb _{0.55}	8.4	1083			1485
Bi _{0.38-0.88} Pb _{0.62-0.12}	8.5-4.6	HF(1102)			851 1102
Bi _{0.35} Pb _{0.65}	8.7	HF			403 404 406
Bi _{0.3} Pb _{0.7}	8.63	HF			1318
Bi _{0.26} Pb _{0.74}	8.3				851
Bi _{0.23} Pb _{0.77}	7.8				851
Bi _{0.2} Pb _{0.8}	8.15	HF			402 404
Bi _{0.1} Pb _{0.9}	7.95	HF			402 404 322 348

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Bi}_{0.07}\text{Pb}_{0.93}$	7.7	HF			402 404
$\text{Bi}_{0.05-0.40}\text{Pb}_{0.95-0.60}$	7.35-8.4	HF			677 949 685
$\text{Bi}_{0-0.56}\text{Pb}_{1-0.44}$		HF			855 1288 322
$\text{Bi}_{0-0.2}\text{Pb}_{1-0.8}$	7.25-8.0		A1		851
$\text{Bi}_{0-0.11}\text{Pb}_{1-0.89}$	$T_c' (+0.39)$				1133 861
$\text{Bi}_{0-0.2}\text{Pb}_{1-0.98}$	$T_c' (-0.07)$				1165 852
$\text{Bi}_{0.01-0.05}\text{Pb}_{0.99-0.95}$		890-810-941			1724#
$\text{Bi}_{1-0}\text{Pb}_{0-1}$	7.26-9.14				083
$\text{Bi}_{0.7-0.95}\text{Pb}_{0.3-0.05}$ (P~20 kbar)	8-5, 5-6				1746
$\text{Bi}_{0.625}\text{Pb}_{0.375}$	8.05 7.25 (After 30 kbar)				843
$\text{Bi}_{0.575}\text{Pb}_{0.425}$ (P=12-18 kbar)	7.96-8.03		HEX		1457
$\text{Bi}_{0.1-1}\text{Pb}_{0.9-0}$ (Amorphous, deposit 4.2K)	6-7.1				851 ∇ 1126
$\text{Bi}_{0.45}\text{Pb}_{0.55}$ (Amorphous)	7.0	916			1485
$\text{Bi}_{0.3-0.56}\text{Pb}_{0.7-0.44}$ (In porous glass ~20-60Å)	6.2-8.5	HF			1459 1716 1319 1045
$\text{Bi}_{1-0}\text{Pb}_{0-1}$	7.25-8.67	HF			∇ 484 ∇ 1235 ∇ 750
$\text{Bi}_{0.25-0.75}\text{Pb}_{0.75-0.25}$ (Quench condensed)	6.9-7.0				∇ 1548
$\text{Bi}_{0.25}\text{Pb}_{0.75}$ (Deposit 4.2K, 1260Å)	6.9	HF			∇ 1774 ∇ 1949 ∇ 1545
$\text{Bi}_{0-0.56}\text{Pb}_{1-0.44}$ (Weight fraction, ~1500Å)	7.3-8.5				∇ 1865
$\text{Bi}_{1-0.92}\text{Pb}_{0-0.08}$ (500-1100Å)	6.154-6.032				∇ 737
$\text{Bi}_{0.95}\text{Pb}_{0.05}$				1.03	∇ 484
BiPbSb	8.9				111
BiPbSb (in porous glass, 32Å, 57Å)	7.83, 8.15	HF			1459
$\text{Bi}_{0.08-0.46}\text{Pb}_{0.84-0.24}$ $\text{Sb}_{0.08-0.30}$ (In porous glass, 32Å)	7.2-6.9-8.16	HF			1459
$\text{Bi}_{0.525}\text{Pb}_{0.32}\text{Sn}_{0.155}$ (Weight fraction)	8.68	HF			1917 109 402
$\text{Bi}_{0.5}\text{Pb}_{0.25}\text{Sn}_{0.25}$	8.5				109
$\text{Bi}_{0-0.4}\text{Pb}_{1-0}\text{Tl}_{0-1}$	7.36-1.2		CUB		1308
$\text{Bi}_{0.015-0.15}\text{Pb}_{0.97-0.7}$ $\text{Tl}_{0.015-0.15}$	7.204-7.376	HF			1713

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_o (oersted)	Crystal Structure	T_n (K)	Refs.
$Bi_{0-0.025}Pb_{1-0.975}Tl_{0-0.025}$	$T_c'(-0.01+0.02)$				1165
$Bi_{\sim 0.01}Pb_{0.98}Tl_{\sim 0.01}$		828			1724#
Bi_2Pd	4.25		TET		006 050 056 153
Bi_2Pd	1.73		MONO		008 006 050 056
$BiPd$	3.74		ORTHO		030 005 050 107
$Bi_{0.33}Pd_{0.67}$	4(broad)				005 050 095
$Bi_{0.25}Pd_{0.75}$				Data given	145
$Bi_{0.4}Pd_{0.6}$	3.7-4		$B8_1$		198 425
$BiPdSe$	1.0		C2		413 414
$BiPdTe$	1.2		C2		413 414
$BiPr$			R1	Data given	158 270
$Bi_2Pt(\text{beta})$	0.155, 0.18	9.5	HEX, C2		060 1993 158 002 095 051
$Bi_2Pt(\text{Low Temp. form-alpha})$				1.45- 1.8	002 051
	2.4, 1.21		$B8_1$		158 129 037
Bi_3Pt				1.8	002
$Bi_{0.1-1}PtSb_{0.9-0}$	1.21-2.05		$B8_1$		396
$BiPtSe$	1.45		C2		413 414
$BiPtTe$	1.15		C2		413 414
Bi_2Rb	4.25		C15		053 007 153
$BiRb_2, BiRb_3, Bi_2Rb_3$				Data given	053 606
$BiRe_2$	2.20-1.9				
$Bi_2Rh(\text{Alpha form})$			MONO	1.34	059 002 057 008 287
$Bi_2Rh(\text{Beta form})$			MONO	1.30	059 057 008
$BiRh$	2.06-2.2		$B8_1$		1588 061 008 153
Bi_3Rh	3.2		ORTHO		059 057 145 153 286
$Bi_{0.8}Rh_{0.2}$	2.7		HEX		155 057 145 153 059
$Bi_4Rh(\text{Alpha form})$			CUB	0.10	002 055 057 059
$BiRu, BiRu_2$				0.35	491

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
BiRu	5.7, 4.12 3.31 2.7-<2(quenched)				606
Bi ₂ S				1.90	119
BiS				0.3	606
BiS ₃				Quoted	008
Bi ₂ S ₃			D5 _g	0.10	060 270 084 119
BiSb				1.28	011
Bi _{1-0.95} Sb _{0-0.05} (~700-900Å)	6.154-6.374				∇737
Bi _{1-0.4} Sb _{0-0.6} (Deposit 77K)	5.8-1.7				∇1904 ∇1538#
BiSc				0.3	606 262
Bi ₂ Se ₃				1.26	084
Bi _{0-0.01} Si _{1-0.99}					320
Bi ₃ Sn	3.77-3.72 3.67-3.63				606
Bi _{0.57} Sn _{0.43} (Weight fraction)	2.25	HF			1917
Bi _{0.6} Sn _{0.4} (~25 kbar, 77K)	7.0	HF			1091
Bi _{0.5} Sn _{0.5} (~25 kbar, 77K)	7.2, 788	HF	MON		1091 1084
BiSn	3.72 4.20 (30 kbar)				843
BiSn(Eutectic)	3.80	130(at 3.48K)			070 090 085
Bi _{0.4} Sn _{0.6} (~25 kbar, 77K)	7.34	HF			1091
Bi _{0.02-0.10} Sn _{0.98-0.9}	3.85-4.18				036
Bi _{0.1-0.8} Sn _{0.9-0.2} (~30 kbar, ~360K)	6.5-7.4	HF			1701 ∇1089
Bi _{0-0.01} Sn _{1-0.99}	3.730-3.734, 3.700		TET		318# 320 345 341 1153
Bi ₃ Sr	5.7, 5.62	530	L1 ₂		011 095 198 715
Bi ₃ Te	~1.0-0.75				606
Bi ₂ Te ₃ (See Table 4)				1.26	084
BiTe ₂ Tl(See Table 4)					
Bi ₅ Th ₃				1.13	1582
BiTi ₃			TET	1.15	712 1582 412
Bi _{0.86} Tl _{0.14} (after 30 kbar)	6.50				843 1878
Bi _{0.62-0.18} Tl _{0.30-0.02}	6.6-2.3				736 1264
Bi ₅ Tl ₃	6.4	HF			090 404 085 109 074
Bi _{0.26} Tl _{0.74}	4.4(Disordered) 4.15(ordered)				265

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Bi}_x\text{Tl}_{1-x}$	T_c (+0.16)		HEX		858 591 209
$\text{Bi}_{1-0.87}\text{Tl}_{0-0.13}$ (550-820Å)	6.154-6.220				∇737 ∇990
$\text{Bi}_{0.85}\text{Tl}_{0.15}$ (1260Å, 1500Å)	6.23, 6.2	HF			∇1774 ∇1949
BiV_3			A15	4.2	825
BiW				0.3	606
Bi_2V_3	2.25				173
BiY			B1	Discussed	411
Bi_3Zn	0.87-0.77				606
BiZr_3	2.84-2.35 3.4-0.4(Annealed)				606
$\text{Bi}_{0.3}\text{Zr}_{0.7}$	1.51				270
Bi_2Zr				1.13	1582
Br_2Cu				1.28	011
C(pyrolytic graphite)				0.011	494
C(Graphite and carbons)				1.3	046
C(See Table 3)					
$\text{C}_{1.35}\text{Ca}_{0.1}\text{Y}_{0.9}$	10.5-11.5				870
C CdTi_2			HEX	1.1	632
C_2Ce				1.28	011 784
$\text{C}_3\text{Ce}_{0.2}\text{Th}_{1.8}$			D5_c	4.0	1222
$\text{C Co}_{0.05-0.01}\text{Ta}_{0.95-0.99}$	Data given				262 263 271
C_2Cr_3				1.28	011 010
$\text{C}_{0.3}\text{Cr}_{0.7}\text{C}_{0.2}\text{Cr}_{0.8}$				1.20	010
$\text{C Cr}_2\text{Ga}$			HEX	1.1	632
$\text{C}_{1.45}\text{Cr}_{0.1}\text{Y}_{0.9}$	12.4		D5_c		870
$\text{C}_8\text{Cs(Gold)}$	0.020-0.135		HEX		494
$\text{C}_{16}\text{Cs(Blue)}$				0.011	494
C_2Dy				2.0	784
C_2Er				2.0	784
$\text{C}_3\text{Er}_{0.4}\text{Th}_{1.6}$	8.2		D5_c		1222
$\text{C}_3\text{Er}_{0.6}\text{Th}_{1.4}$	8.1		D5_c		1222
$\text{C}_3\text{Er}_{0.8}\text{Th}_{1.2}$	7.0		D5_c		1222
C_3ErTh	4.6		D5_c		1222
$\text{C}_3\text{Er}_{0.1}\text{Th}_{1.9}$	6.8		D5_c		1222
$\text{C}_3\text{Er}_{0.2}\text{Th}_{1.8}$	8.2		D5_c		1222
$\text{C}_{1.5}\text{Er}_x\text{Th}_{1-x}$	4-8-4.6		CUB		1971
C Fe_3				1.3	119
C GaLa_3			CUB	1.02	1564

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$C_{Ga}Mo_2$	4.1-3.7		HEX		635
C_2Gd				2.0	784
$C_{1.5}Ge_3La_5$	3.3-3.7		CUB		767
$C_{10}Ge_{0.01-0.16}Sc_{13}$	7.0-8.5		CUB		871
$C_{0.05}Ge_3V_5$			$D8_8$	1.02	270
$C_{1.35}Ge_{0.1}Y_{0.9}$	10.6		$D5_c$		870
CHf			B1	1.23	020 119 238 1813
$C_{0.985}Hf$				1.28	559 558 560
CHf_2In			HEX	1.1	632
$CHf_{0.9}Mo_{0.1-0.25}$			B1	1.4	559 558 560
$CHf_{0.5-0.07}Mo_{0.5-0.93}$	3.4-9.0-8.2		B1		559 558 560
$C_{0.75}Hf_{0.05}Mo_{0.95}$	14.2		B1		650
$CHf_{0-0.2}Mo_{1-0.8}$	14.3-11.7		B1		1006
$CHf_{0.9-0.75}Mo_{0.1-0.25}$			B1	1.4	1813
$CHf_{0.15}Mo_{0.85}$	9.0		B1		1813
$CHf_{0.5-0}Mo_{0.5-1}$	3.4-9.0-6.5		B1		1813
$C_{0.1-0.35}HfN_{0.9-0.65}$	8.5-4.9				1238
$C_{0-1}Hf_{0-1}N_{1-0}Nb_{1-0}$	14.9-15.5-12.7		B1		1238
$C_{0.25}Hf_{0-0.5}N_{0.75}Nb_{1-0.5}$	17.4-8.5				1511
$C_{0-0.25}Hf_{0-0.25}N_{1-0.75}$	14.7-12.8				1511
$Nb_{1-0.75}$					
$C_{0.25}Hf_{0-0.25}N_{0.75}Nb_{1-0.75}$	17.4-12.7				1511
$CHf_{0.8-0.2}Nb_{0.2-0.8}$	5.4-6.1-4.5-7.8		B1		559 558 560
$CHf_{0.9}Nb_{0.1}$			B1	4.2	559 558 560
$CHf_{0.9-0.1}Ta_{0.1-0.9}$	5.0-9.0		B1		559 558 560
$CHf_{0.6}Zr_{0.4}$			B1	1.28	558
C_2Ho				2.0	784
$C_3Ho_{0.6}Th_{1.4}$	5.2		$D5_c$		1222
$C_3Ho_{0.4}Th_{1.6}$	5.5		$D5_c$		1222
$C_3Ho_{0.2}Th_{1.8}$	5.4		$D5_c$		1222
$C_{1.5}Ho_xTh_{1-x}$	4-5.5-5.2		CUB		1971
$CInLa_3$			CUB	1.02	1564
$CInNb_2$			HEX	1.1	632
$C_{1.35}In_{0.15}Y_{0.85}$				4.0	870
$CInZr_2$			HEX	1.1	632
CIr_2Mo_3	1.8		CUB		793

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
C ₁ IrMo ₃	3.2		CUB		793
C ₂ IrU ₂			TET	0.3	1018
C ₁ Ir ₂ W ₃	2.1		CUB		793
C ₈ K(gold)	0.55, 0.39	HF	HEX		494
C ₁₆ K(blue)			HEX	0.011	494
C ₂ La	1.44, 1.61		C11a		784 863 1148
C _{1.58} La	9.6		CUB		1148
C ₃ La ₂	11.0		D5 _c		1971 869 1148
C _{1.3} La	8.3(Arc melt)		CUB		1148
C ₁₃ La(Prepared with high P)	4.8		CUB		1148
C ₁ La ₃ Pb			CUB	1.02	1564
C ₁ La ₃ Sn			CUB	1.02	1564
C _{1.45} La _{0.5} Th _{0.5} (P preparation)	14.2		CUB		1148
C _{1.45} La _{0.1-0.8} Th _{0.9-0.2} (Arc Melt)				3.9	1148
C _{1.2-1.6} La _{0.1-0.9} Th _{0.9-0.1} (Various preparations)	10.2, 10.6- 14.3		CUB		1148
C _{1.4} La _x Th _{1-x}	4-14.2... 14.2-4		CUB		1971
C _{1.5} La _{0.9} Th _{0.1}	12.9		CUB		1971
C ₁ La ₃ Tl			CUB	1.02	1564
C ₂ Lu	3.33(863)		TET	2.0	863 784
C _{1.5} Lu _{0-0.4} Th _{1-0.6}	4-11.7-11.5		CUB		1971
C ₃ Lu _{0.8-0.2} Th _{1.2-1.8}	11.6-11.7-10.3		D5 _c		1222
C ₁ Mn			HEX	1.7	1795
C ₁ Mn _{0.02} Mo _{0.98} ("Splat" cooled)			CUB	1.7	1795
C ₁ Mo	14.3		B1		1006 1036 1824
C ₁ Mo(Quenched)	9.26, 7.7, 6.5	HF(1098)	HEX		011 1824 021 069 089 333 815 558 119 1132 1098 559 560 497
C ₁ Mo ₂	6, 4, 10, 8, 12		ORTHO		966 650 1132 069 089
C ₁ Mo ₂	3.45-5.8, 7.1, 2.78	HF(1098)	L ₃		1132 815 011 069 089
C _{0.44} Mo _{0.56}	13.0				1824
C _{0.69} Mo	12.1	HF	B1		966#
C _{0.64} Mo	8.0	HF	HEX		966#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
C _{0.42} Mo	2.8		L ₃ '		966#
C _{0.40-0.44} Mo _{0.60-0.56} (Various hot pressings and quench)	9-13				573 571 691
C _{0.4} Mo _{0.6} (plus 2% VC)	11.2-13.2				571
C _{0-0.9} Mo _{1-0.1} (Deposit 78K, 60Å plus)	1.3-6.9-<1.5				∇1734
C _{0.2} Mo _{0.8} (60Å plus 0-80Å C coat)	5.9-7.3-6.7- 6.8-6.7				∇1733
C _{0-0.2} Mo _{0-0.2} Nb _{1-0.8} Nb _{1-0.8}	14.7-15.5-12.2				1511
C Mo ₁₋₀ Nb ₀₋₁	11.1-10.8-14.3		B1		1006 128 117
C Mo ₃ Pt ₂	1.1 (onset)		CUB		793
C ₁₋₀ Mo ₂₋₀ Re ₀₋₁	2.8-4.3-3.4- 5-1.7		HEX		1799 1366
C ₂ MoRe	3.8		CUB		793
C Mo _{0.9} Re _{0.1}	13.8		B1		1006
C Mo ₃ Re ₂			HEX	1.0	793
C Mo _{0.9} Ru _{0.1}	13.6		B1		1006
C _{0.6} Mo _{4.8} Si _{0.3}	7.6		D8 ₈		650
C Mo _{0.85-0.2} Ta _{0.15-0.8}	8.9-7.5		B1		559 558 560
C Mo ₁₋₀ Ta ₀₋₁	6.5-8.9-7.4		B1		1813
C Mo _{0.85} Ta _{0.15}	8.9		B1		1813
C Mo ₁₋₀ Ta ₀₋₁	10.1-8.3-14.3		B1		1006
C Mo _{0.83} Ti _{0.17}	10.2		B1		522 128 117
C Mo _{1-0.8} Ti _{0-0.2}	14.3-12.0		B1		1006
C Mo _{1-0.8} V _{0-0.2}	14.3-12.7		B1		1006
C _{0.5} Mo _{0.25-0.4} V _{0.25-0.1}	2.9-9.30				128 117
C Mo ₁₋₀ W ₀₋₁	14.3-8.8-10.0		B1		1006
C _{1.45} Mo _{0.1} Y _{0.9}	13.8		D5 _c		870
C Mo _{1-0.8} Zr _{0-0.2}	14.3-10.9		B1		1006
C _{0.5} Mo _{0.17} Zr _{0.42}	3.8-9.5				128 117
C _{0.25} N _{0.75} Hf _x Nb _{1-x}	17.6-8.5				1238
C ₀₋₁ N ₁₋₀ Nb ₁₋₀	14.9-18.0-11		B1		1238
C ₀₋₁ N ₁₋₀ Nb	14.7-17.7-10.7				1511
C _{0.1-0.9} N _{0.9-0.1} Nb	16.7-17.8-10.5		B1		559 558 561
C _{0.35} N _{0.65} Nb	17.8		B1		559
CNNb	17.3 max.				1383
C _{0.1} N _x Nb	11-17-16				1234
C _{0.2} N _x Nb	13-17.5				1234

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$C_{0.3}N_xNb$	14-17.8				1234
$C_{0.5}N_xNb$	14.5-17.8				1234
$C_{0.25-0.3}N_{0.75-0.7}Nb$	17.8				037 1234 1510#
$C_{0.026}N_{0.974}Nb$	17.2-17.3				1234
CNNb		HF			1038 572#
$C_xN_{1-x}Nb$ (Whiskers)	8.5-17.3	HF			582
$C_{0-0.3}N_{1-0.7}Nb_{1-0.7}Ta_{0-0.3}$	14.7-13-15.7				1511
$C_{0.25}N_{0.75}Nb_{1-0.6}Ta_{0-0.4}$	17.4-15				1511
$C_{0-1}N_{1-0}Nb_{1-0}Ta_{0-1}$	14.9-16.5-10.2		B1		1238
$C_{0-0.4}N_{1-0.6}Nb_{1-0.6}Ti_{0-0.4}$	14.7-18-16.8				1511
$C_{0.25}N_{0.75}Nb_{1-0.5}Ti_{0-0.5}$	17.4-17.8-15.5				1511
$C_{0.25}N_{0.75}Nb_{0.85}Ti_{0.15}$	17.8				1511
$C_{1-0}N_{0-1}Nb_{0-1}Ti_{1-0}$	14.9-17.8-<2.5		B1		1238
$C_{0.25}Nb_{0.75}Nb_{1-x}Ti_x$	17.6-17.8-16				1238
$C_{0.15}N_{0.85}Nb_{0.85}Ti_xZr_{0.15-x}$	17.5-14.7				1238
$C_{0.25}N_{0.75}Nb_{0.85}Ti_xZr_{0.15-x}$	17.7-15.5				1238
$C_{0-1}N_{1-0}Nb_{0-1}V_{1-0}$	14.9-<2.5		B1		1238
	8.7-8.8-<2.3-11.1		B1		1238
$C_{0.2}N_{0.8}Nb_{0.8}V_{0.2}$	5.5				1511
$C_{0.25}N_{0.75}Nb_{1-0.62}V_{0-0.38}$	17.4-4.0				1511 1238
$C_{0-1}N_{1-0}Nb_{1-0}Zr_{0-1}$	17.6-11.5		B1		1238
$C_{1-0.62}N_{0-0.38}Ta$	10-11.3		B1		1824
$C_{0-1}N_{1-0}Ta_{0-1}V_{1-0}$	8.7-<2.3-10.0				1238
$C_{0-1}N_{1-0}Th$	<2-5.6-3.3		B1		1971
$C_{0.78}N_{0.22}Th$	5.6		B1		1971
$C_{0-1}N_{1-0}Ti_{0-1}V_{1-0}$	8.7-<2.3				1238
$C_{0-1}N_{1-0}V$	8.7-9.7-<2.3				1238
C_1Nb_1	12-14(Extrapolated)				271
$C_{0.98}Nb$	11.56				1703#
$C_{0.99-0.80}Nb$	11.18-11.56-<1.5		B1		1703# 1510# 559 558 560
$C_{0.977-0.83}Nb$	11.1-1.05		B1		1961 271
$C_{0.79-0.70}Nb$			B1	1.05	1961 1510# 271
$C_{\sim 0.7-0.99}Nb$	<2-11		B1		967# 497 271
$C_{\sim 1}Nb$	11.1 max.		B1		1542# 1238 1006 270 010 011 069

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
C _{~1} Nb		HF			1244 582 571 1035 1038
CNb ₂	9.1(474)		HEX	1.98 (284 397 967)	474 284 397 010 967 572#
C _x Nb(Whiskers)	7.5-10.5	HF			582
C _x Nb _{1-x} (Deposited 700°C)	<2.5-9.6	HF			√1345
C _{0.05} Nb ₅ Si ₃			D8 ₈	1.02	270
CNb ₂ Sn			HEX	1.1	632
C _{0-0.05} Nb ₃ Sn(Vapor deposition)	18.2-16.3		A15		1804
CNb ₁₋₀ Ta ₀₋₁	11.1-8.9-10.1		B1		1006
CNb ₁₋₀ Ta ₀₋₁	8.2-13.9				628
CNb _{0.4} Ta _{0.6}	10-13.6	HF	CUB		990
CNb _{0.2-0.8} Ta _{0.8-0.2}	9.4-9.7		B1		559 560 558
CNb _{0.9-0.1} Ti _{0.1-0.9}	8.8-4.6-5-<4.2		B1		559 558 560
CNb _{0.1} Ti _{0.9}			B1	4.2	559 558 560
CNb _{0.9-0.5} V _{0.1-0.5}	5.7-<~2				1238
CNb ₁₋₀ W ₀₋₁	11.1-13.5-10.0		B1		1006
CNb _{0.9-0.6} W _{0.1-0.4}	11.6-12.7-12.5		B1		558
C _{1.35} Nb _{0.1} Y _{0.9}	10.8		D5 _c		870
CNb _{0.9-0.1} Zr _{0.1-0.9}	8.4-4.8-6.4-4.2		B1		559 558 560
C ₂ Nd				2.0	784
C ₃ Nd _{0.2} Th _{1.8}			D5 _d	4	1222
C ₂ OsU ₂			TET	0.3	1018
COs ₂ W ₃	2.9		CUB		793
CPbTi ₂			HEX	1.1	632
C _{0.6} Pd(Ion implant)	1.3 Max.				164
C ₂ Pr				2.0	784
C ₃ Pr _{0.2,0.4} Th _{1.8,1.6}			D5 _c	4	1222
C ₂ PtU ₂	1.47		TET		1018
CPt ₂ W ₃	1.2		CUB		793
C ₈ Rb(Gold)	0.023-0.151				494
C ₁₆ Rb(Blue)				0.011	494
C _{0.04} Re _{0.96} (Quenched)	1.98				712
C ₀₋₁ Re ₁₋₀ W ₂₋₀	2.7-3-1.7		HEX		1799
C ₂ ReW	3.8		CUB		793
CRe ₂ W ₃			A13	1.0	793

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
CRe _{0.01-0.08} W	2.6-5.0-1.3	HF			603
C _{1.35} Re _{0.3} Y _{0.7}				4.0	870
CRh	1.6		B ₁		1735 011
CRh(Prepared 160-180 kbar and Temp. to 1000°C)	3.4		B1		1735
C ₂ RhU ₂			TET	0.3	1018
C ₂ Ru	~2.04(112)?			1.90	112 119
C ₂ RuU ₂			TET	0.3	1018
C _{1.35} Ru _{0.1} Y _{0.9}	11.2		D5 _c		870
C _{1.35} Ru _{0.3} Y _{0.7}				4.0	870
C _{0.96} Sc			B1	1.38	558
C ₃ Sc ₄			CUB	1.0	871
C ₃ Sc _{0.2-1} Th _{1.8-1}	6.7-7.2-6.0-7.1		D5 _c		1222
C ₃ Sc _{1.4} Th _{0.6}	5.4				1222
C ₃ Sc _{0-1.2} Th _{2-0.8}	4-7.0		CUB		1971
CSi				1.28	011
C _{0.05} Si ₃ V ₅			D8 ₈	0.35	270
C _{1.35} Si _{0.1} Y _{0.9}	11.3		D5 _c		870
C ₂ Sm				2.0	784
C _{1.35} Sn _{0.1} Y _{0.9}	10.2		D5 _c		870
CTa	10.35	HF	B1		1542# 1244 1006 1238 571
C _{0.83-0.99}	1.9-9.9		B1		271 1703# 1961 967# 333 263 069 040 018 010 559 558 560
C _{0.754} Ta			B1	1.05	1961 271
C _{0.47} Ta			C6	1.6	967#
CTa ₂	3.26		L' ₃	1.98 (397 284)	010 474 264 397 284
CTa(Sputtered, 017Å)	5.09		B1		∇505
CTa _{0.4} Ti _{0.6}	4.8		B1		558
CTa ₁₋₀ W ₀₋₁	10.1-10.2- 9.0-10.0		B1		1006
CTa _{0.45} W _{0.55}	10.5				128
CTa _{0.5} W _{0.5}	10.1				694
CTa _{1-0.4} W _{0-0.6}	8.5-10		B1		694

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$C_{Ta_{0.9-0.3}Zr_{0.1-0.7}}$	8.3-4.6-5.1		B1		559 558 560
$C_{Ta_{0.2}Zr_{0.8}}$			B1	4.2	559
C_2Tb				2.0	784
CTc (Excess C)	3.85		CUB		633
C_{Th}			B1	1.2	1971 010 1148
$C_{112-1000 ppm Th}$	T_c (-0.095)	Data given			1291
$C_{1.45}Th$	4.1		CUB	3.9 (Arc melted)	1148
$C_{1.35-1.55}Th_{0.1-0.9}Y_{0.9-0.1}$	12-17.0		$D5_c$		870
$C_{1.2-2.0}Th_xY_{1-x}$			TET	4.0	870
$C_{1.5}Th_{0.1-0.7}Y_{0.9-0.3}$	12-17-14.3 4-15.2		CUB		1971
$C_{1.55}Th_{0.3}Y_{0.7}$	17.0		$D5_c$		870
$C_{1.35}Th_{0.9,0.8}Y_{0.1,0.2}$				4.0	870
$C_{1.55}Th_{0.7}Y_{0.3}$				4.0	870
$C_{1.65}Th_{0.4}Y_{0.6}$				4.0	870
CTi			B1	1.20	010 333 559 558 560 522 1238
$C_{0.91-0.69}Ti$			CUB	1.5	790
$C_{0.46,0.52}Ti$	3.32.3.42	HF	CUB		790
$CTi_{0.4-0.7}V_{0.6-0.3}$				~2	1238
$CTi_{0.7-0.5}W_{0.3-0.5}$	2.1-6.7		B1		558
$CTi_{0.8}W_{0.2}$			B1	1.38	558
$C_{1.45-1.55}Ti_{0.1}Y_{0.9}$	14.2-14.5		$D5_c$		870
$C_{1.50}Ti_{0.3}Y_{0.7}$	12.9		$D5_c$		870
$C_{1.35}Ti_{0.1}Y_{0.9}$	10.7		$D5_c$		870
$CTi_{0.6,0.8}Zr_{0.4,0.2}$			B1	1.28	558
C_2Tm				2.0	784
CU			B1	1.20	010
$C_{1.45}U_{0.15}Y_{0.85}$			$D5_c$	4.0	870
CV (Probably low C)			B1	1.17	694 271 010 572# 1238 810#
CV_2			HEX	1.20	010 397
$C_{0.922}V$				1.28	559 558 560
$C_{0.87-0.76}$				0.03	1114 1332#
$C_{1.45}V_{0.1}Y_{0.9}$	11.5		$D5_c$		870

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
C _{0.4} Zr _{0.6}			B1	4.2	550
C _{0.50} W _{0.50}	10.0		A1		1036 1006
C _{0.55} W _{0.45}	8.1		A1 plus		1036
C _{0.46} W _{0.54}	9.0		A1		1036
CW			B _h	0.3	1037 603 018 011 040 815 011 010 1036
CW ₂	2.74, 3.6		L ₃		011 010 1036
CW ₂	2.85-3.05, 3.35		HEX		1132 1223
CW ₂	2.4-4.05		ORTHO (HEX?)		1223
CW ₂	5.2(Broad)		CUB		2.64
C _{1.55, 1.45} W _{0.1} Y _{0.9}	14.8, 14.5		D5 _c		870
C ₂ Y	3.88, 3.75		C11a		784
C ₃ Y ₂ (15-25 kbar)	6.0-11.5(Broad)		D5 _c		868
CY ₃				1.15	711 863
C _{0.92} Y			B1	1.38	558
C _{1.55-1.30} Y	6.0-11.5-8.2		D5 _c		870
C _{1.45} Y	11.5		D5 _c		870
C _{1.45} Y _{0.9} Zn _{0.1}	13.0		D5 _c		870
C _{1.35} Y _{0.8} Zn _{0.2}				4.0	870
C ₂ Yb				2.0	784
CZr(Low C)				1.20	010 559 1238 558 560
Ca(99.5%)			A1	<0.017	1214 1233 270
Ca(100Å, deposited 4.2K)	4.2	HF			∇710
CaCu ₅			D2 _d	0.34	486
CaGa ₂			C32	1.02	270
CaGe ₃				0.15	427
CaH ₁₈ N ₆ (See Table 3)					
CaHg	1.6-<1.25		B2		1232
CaHg ₃	1.6-1.3				1232
CaHg ₅	1.7-1.5				1232
CaIr ₂	4-6.15		C15		028
CaMg ₂			C14	1.02	270
Ca _{0.05-0.07} MoS ₂	4.0		ORTHO		1928
Ca _x O ₃ Sr _{1-x} Ti(See Table 4)		HF			1005 611
Ca _{0.10} O ₃ W	1.4-3.4		HEX		644

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H (oersted)	Crystal Structure	T_n (K)	Refs.
CaPb	7				085 111
CaPb ₃	0.84		L1 ₂		1245 715
Ca _{1-0.7} Pb ₃ Sr _{0-0.3}	0.08-1.0		L1 ₂		1245
Ca _{0.6} Pb ₃ Sr _{0.4}	1.16		TET		1245
Ca _{0.55-0} Pb ₃ Sr _{0.45-1}	1.47-1.88		TET		1245
CaPb _{3x} Tl _{3(1-x)}	3.7, 3.7		L1 ₂		715
CaPd ₂			C15	1.02	028
CaPt ₂			C15	1.02	028
CaRh ₂	6.40		C15		028
CaSe				1.70	002
Ca ₂ Si			CUB	1.68	427
CaSi			ORTHO	1.3	427
CaSi ₂			C12	0.32	961 427
CaSi ₂	1.58		C _c		961
CaTl ₃	2.04		L1 ₂		715
CaZn ₅			D2 _d	0.34	486
Cd(RRR>38,000)	0.5173	28.05 (1960)	A3		1607 1960# 1937 1458 1166# 1661 537 1344 1506#
Cd	0.53-0.57	28.7, 30	A3		1609 1608 179 024 030 390 001 546 933 1267
Cd(Deposited 1K)	0.79-0.91 (Disordered) 0.53-0.59 (Ordered)				∇1467 ∇1310
CdCu(γ)				1.30	1009
Cd _{0.04} Cu _{0.96} S ₂	1.3-2.0		C2		1665
Cd _{0.06} Cu _{0.94} Se ₂	1.3-2.1		C2		1665
Cd _{0.9} Ge _{0.1} (Deposited 1K)	1.59-1.70 (Disordered) 0.54-0.57 (Crystalline)				1467
Cd _{1-0.72} Hg _{0-0.28}	0.5-1.35		HEX		732 084 091
Cd _{0.72-0.07} Hg _{0.28-0.93}	1.3-3.3 (Shows discontinuity at Cd _{0.33})		TET		732 270 073 080
Cd _{0.06-0} Hg _{0.94-1}	4.09-4.15				732
CdHg	1.77, 2.15				270 073

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
In_2SbTe_2	1.06		B1		1911 1007
InSc_2			B8_2	4.2	853
InSc_3			DO_{19}		212
$\text{In}_{0.2}\text{Si}_{0.8}\text{V}_3$	16.2 16.8(Annealed)		A15		1073 824
$\text{In}_{0.75}\text{Sn}_{0.25}^{(\beta)}$	5.10(Very slow anneal) 5.95 (Quenched)		TET		1834 1767 026 261 204
$\text{In}_{0.5}\text{Sn}_{0.5}$	6.9				204
$\text{In}_{0.7}\text{Sn}_{0.3}$	7.3				204
$\text{In}_{0.88}\text{Sn}_{0.12}$	5.03	HF			1164
$\text{In}_{0.96-0.87}\text{Sn}_{0.04-0.13}$	3.7-5.03				445
$\text{In}_{0.5}\text{Sn}_{0.5}$ (Weight fraction)	7.45	HF			1917
$\text{In}_{0.05}\text{Sn}_{0.95}$	3.625	HF			1612
$\text{In}_{0.02}\text{Sn}_{0.98}$ (Whisker, $2 \times 10^{-9} \text{cm}^2$)	3.636				1546
$\text{In}_{1-0.942}\text{Sn}_{0-0.058}$	3.44-3.90	275-360			763 609 1780 1184# 799 1258#
$\text{In}_{1-0.98}\text{Sn}_{0-0.02}$	$T_c'(-0.01+0.125)$				320 345 319
$\text{In}_{0.06-0.01}\text{Sn}_{0.94-0.99}$	3.645-3.625- 3.64	HF			1050
$\text{In}_{0.017-0.075}\text{Sn}_{0.983-0.925}$	3.620-4.885				1201
$\text{In}_x\text{Sn}_{1-x}$	$T_c'(-0.105)$	Data given			1618 562 318# 341 309 360 814# 912 910# 666 1724#
$\text{In}_{0.012}\text{Sn}_{0.988}$	3.690	307.0			
$\text{In}_x\text{Sn}_{1-x}$ (Quenched from liquid)	3.7-7.8				261 265 204
$\text{InSn}_{0.02-0.03}$ (Deposit 77K, $\sim 300-23,000\text{\AA}$)	3.78-3.5	Data given			∇ 1962
$\text{InSn}_{0.03}$ ($\sim 300-7000\text{\AA}$)	3.78-3.58	Data given			∇ 1962
$\text{In}_{1.0-0.94}\text{Sn}_{0-0.06}$	3.4-3.82	HF (854 1619)			∇ 763 ∇ 450 ∇ 750 ∇ 854 ∇ 1235 ∇ 1619
InSnTe (See Table 4)					
$\text{In}_{3(1-x)}\text{Sn}_{3x}\text{Th}$	3.9 Max.		L1_2		715
$\text{In}_{3(1-x)}\text{Sn}_{3x}\text{Y}$	1.5 Max.		L1_2		715
In_2Te				1.37	229
InTe	2.2	800	B1		761 442 770 507
InTe			TET	1.37	696 229 507

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
InTe	3.2-3.45		B1		506 507
In ₂ Te ₃				1.0	515
In ₃ Te ₄	1.25-1.15				515
In, Te (See Table 4)					
In ₃ Th			L1 ₂	0.05	715
InTh ₂			C16	0.07	1377
In _{1-0.992} Th _{0-0.008}	T_c (-0.0252)				319 320
In _{1-0.5} Tl _{0-0.5}	3.374-2.7	284-252			044# 080 083
In _{0.95-0.75} Tl _{0.05-0.25}	3.30-3.16	HF	TET		338 1155
In _{1-0.933} Tl _{0-0.067}	3.4087-3.284	281.53-272.41	TET		585 1155 1620#
In _{0.78-0.69} Tl _{0.22-0.31}	3.18-3.32		TET		692
In _{0.69-0.62} Tl _{0.31-0.38}	2.98-3.3	HF(1155)	CUB		692 1155 664
In _{0.1-0.45} Tl _{0.90-0.55} (Annealed)	2.9-3.7-2.5		HEX-CUB- CUB		1156
In _{0-0.45} Tl _{1-0.55} (Quenched)	2.9-4.0-2.4		CUB, HEX, CUB		1156
In _x Tl _{1-x}	T_c (+0.39)		HEX		858 1879 209 044 1108
In _{0.005} Tl _{0.995}	2.418				209
In _{0-0.6} Tl _{1-0.4} (Weight fraction, ~1500Å)	2.2-3.7- 2.4-3.2				∇1865
In _{0.1} Tl _{0.9} (Deposit 0.3K)	3.27 2.78 (Anneal 300-330K)				∇1900
In ₁₋₀ Tl ₀₋₁ (Junction study)	3.40-3.2-2.52- 3.64-2.33				∇1270
In ₃ U			L1 ₂	0.07	715 1677# 412
InV ₃					824 825
In ₃ Y	0.78		L1 ₂		715
In ₃ Yb			L1 ₂	0.05	715
In _{0.85, 0.92} Zn _{0.15, 0.08} (Deposited 6K)	4.6, 4.55				∇351
InZr ₃			L1 ₂	1.02	270 572#
Ir (RRR > 2000)	0.1125	16	A1		1492# 1624 1946 963# 1481 223 023 572# 302
Ir (RRR = 2.5 → 2000)	0.05-0.1125	HF			1492
Ir				0.3	∇503

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Ir ₅ La	2.13				469
Ir ₃ La	2.32		D10 ₂		658 469
Ir ₂ La	0.48		C15		469 127 171
Ir ₃ La ₇	2.24		D10 ₂		469
Ir ₃ Lu	2.89		C15		469
Ir ₂ Lu	2.47		C15		469
IrLu			B2	0.32	469
IrLu ₂	0.84(Portion only)				469
Ir ₃ Lu ₇	0.78(Portion only)				469
IrLu ₃				0.32	469
IrMo ₃ (Varies with order state)	8.17, 8.8		A15		1446 1692 707 033 270 352 292 276 465# 572#
Ir _{0.26} Mo _{0.74}	6.7		D8 _b		276 283 270
IrMo	~8.8		B19		1039
IrMo	~1.85(1039)		HEX	1.0	033 1039
Ir _x Mo	~1.7-0.15		HEX		1570
Ir _{0.987-0.82} Mo _{0.013-0.18}	0.105-0.5				1963#
Ir _{0.29} Mo _{0.41} Nb _{0.3}	8.7 Max.				∇1438
IrMo ₃ Nb ₃ Pt	6.13				707
IrMo ₃ NbPt	5.82(As cast)				707
Ir _{0.25} Mo _{0.75} Nb _{2.25} Pt _{0.75}	6.5		A15		1580
Ir _{0.3} Mo _{0.4} Re _{0.3}	9.5 Max.				∇1438
Ir _y Mo _{0.65-0.79} Re _z	8-9.5		A15		1692
Ir ₃ Nb			L1 ₂	1.2	4.2
Ir _{1.15} Nb _{0.85}	4.6		ORTHO		1299
Ir _{1.05} Nb _{0.95}	4.75		L1 ₀		1299
IrNb ₃	1.3-2.07		A15		1466 922# 707 128 117 033 124 492
Ir _{0.34} Nb _{0.66}	2.25		D8 _b		1625#
Ir _{0.99-0.9} Nb _{0.01-0.1}	0.084-0.172- 0.049				963
Ir _{0.1} Nb _{0.9}	2.3				592
Ir _{0.34-0.4} Nb _{0.66-0.6}	2.25-2.20(2nd phase 7.7-9.8)		D8 _b		1625# 557# 572# 276 (173, 182, 1625)

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Ir}_{2.76}\text{NbPt}_{0.24}$			$L1_2$	1.6	1299
$\text{Ir}_{2.55}\text{NbPt}_{0.45}$			HEX	1.6	1299
$\text{Ir}_{0.45}\text{NbPt}_{2.55}$			DO_{19}	1.6	1299
$\text{Ir}_{0.02,0.05}\text{Nb}_3\text{Rh}_{0.98,0.95}$	2.43, 2.38		A15		492
$\text{Ir}_{0.9-0.1}\text{Nb}_3\text{Rh}_{0.1-0.9}$			A15	1.7	492
$\text{Ir}_{0.984}\text{Ni}_{0.0165}$	0.052				1624
$\text{Ir}_{0.287}\text{O}_{0.14}\text{Ti}_{0.573}$	5.5		$E9_3$		270
$\text{Ir}_{0.265}\text{O}_{0.085}\text{Zr}_{0.65}$	2.3		$E9_3$		270
$\text{Ir}_{0.9-0.2}\text{Os}_{0.1-0.8}$	0.55-0.98-0.30		HEX, CUB		239 963# 572# 574#
$\text{Ir}_{0.5}\text{Os}_{0.5}$	0.98		CUB		230
$\text{Ir}_{0.75}\text{Os}_{0.25}$	0.40				963
$\text{Ir}_x\text{Os}_y\text{Rh}_z$ (32 samples)	0.026-0.55				963 574#
$\text{Ir}_{0.18}\text{Os}_{0.47}\text{Rh}_{0.35}$	0.55				963
$\text{Ir}_{0.75}\text{Os}_{0.05}\text{Rh}_{0.2}$	0.047-0.055				963
$\text{Ir}_{0.76}\text{Os}_{0.09}\text{Rh}_{0.15}$				0.015	963
$\text{Ir}_{0.73}\text{Os}_{0.17}\text{Ru}_{0.1}$	0.31-0.34				963
$\text{Ir}_{0.825}\text{Os}_{0.1}\text{Ru}_{0.075}$	0.13-0.16				963
IrOsY	2.6				171 201
$\text{Ir}_{1.5}\text{O}_{0.5}\text{Y}$	2.4				201
$\text{Ir}_{1-x}\text{Os}_x\text{Zr}_2$	6.8-7.2		C16		1476
Ir_2P				0.35	491
IrP				0.35	491
$\text{Ir}_{0.96-0.88}\text{Pd}_{0.04-0.12}$	0.022-0.069				963 574#
$\text{Ir}_{0.8-0.1}\text{Pd}_{0.2-0.9}$				0.015	963
$\text{Ir}_{0.83}\text{Pd}_{0.045}\text{Pt}_{0.125}$	0.030-0.037				963
$\text{Ir}_{0.1-0.5}\text{Pd}_{0.2-0.5}\text{Rh}_{0.6-0.2}$				0.015	963
$\text{Ir}_{0.9}\text{Pt}_{0.1}$	0.053-0.066				963# 572#
$\text{Ir}_{0.8}\text{Pt}_{0.2}$	0.032-0.046				963# 474#
$\text{Ir}_{0.72}\text{Pt}_{0.08}\text{Rh}_{0.2}$	0.025-0.030				963
$\text{Ir}_{0.775}\text{Pt}_{0.175}\text{Rh}_{0.5}$	0.025-0.032				963
$\text{Ir}_{1-x}\text{Pt}_x\text{Zr}_2$	7.2-8.6				1476
$\text{Ir}_{0.98}\text{Re}_{0.02}$	0.109-1.7				963
$\text{Ir}_{0-0.02}\text{Re}_{1-0.98}$	1.7-1.97				1646
$\text{Ir}_{0-1}\text{Re}_{1-0}$ (Amorphous)	7.5-<1.7				∇1325
$\text{Ir}_{0.4-0.72}\text{Re}_{0.1-0.18}\text{Rh}_{0.5-0.1}$	0.06-0.6				963 574#
$\text{Ir}_{1-0.58}\text{Rh}_{0-0.42}$	0.103-0.005		A1		1118 574

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Ir _{0.9-0.7} Rh _{0.1-0.3}				0.015	963
Ir _{0.75-0.95} Rh _{0.25-0.05}	0.020-0.075				963
Ir _{0.8-0.02} Rh _{0.15-0.5} Ru _{0.05-0.3}	0.01-0.064				963
Ir _{0.3} Rh _{0.5} Ru _{0.2}				0.015	963
Ir _{0.05} Rh _{0.04} Ti _{0.91}	4.0				1060
Ir _{0.125} Rh _{0.125} Zr _{0.75}	10.2 Max.				∇1438
Ir _{0.925-0.71} Ru _{0.075-0.29}	0.105-0.18				963 574
Ir _x Ru	0.4-0.1		HEX		1570
Ir _{0.2} Ru _{0.05} Zr _{0.75}	6.8 Max.				∇1438
IrS, IrS _{2.6}				0.32	552
IrSb			B8 ₁	0.35	481 396
Ir ₂ Sb				0.35	491
IrSc ₃ , Ir ₃ Sc, IrSc				0.32	469
Ir _{0.32} Sc _{0.68}				0.32	469
Ir _{2.5} Sc	2.46, 2.13, 1.03, 0.42		C15		127 469
IrSe ₂			ORTHO	0.32	552
IrSe _{2.9}				0.32	552
IrSi			B31	1.02	270 412
IrSi ₃			DO ₁₈	1.02	270
Ir _{0.2} Si _{0.05} Zr _{0.75}	6.2 Max.				∇1438
IrSn ₂	0.65-0.78		C1		486
Ir ₂ Sr	5.7		C15		028
Ir _{0.35} Ta _{0.65}			D8 _b	1.2	276 182
Ir _{0.85} Ta _{0.15}				0.024	963
Ir _{0.99-0.9} Ta _{0.01-0.1}	0.096-0.15- 0.05				963#
IrTe ₃	1.18		C2		552 270
IrTe ₂			C6	0.32	552
Ir _{0.5} Te _{0.5}	3.0 (Start of transition)		B8 ₁	0.35	552 270
Ir ₅ Th	3.93		D2 _d		469
Ir ₃ Th	4.71				469
Ir ₂ Th			C15		173 478 572#
IrTh	0.37		B _f		469
Ir ₃ Th ₇	1.52		D10 ₂		173
IrTi ₃	4.97 4.18 (As cast)		A15		1446 173 707
Ir _{0-0.135} Ti _{1-0.865}	3.9 Max.				717

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Ir}_{0.10}\text{Ti}_{0.90}$	4.3		CUB		717
$\text{Ir}_{0.04}\text{Ti}_{0.96}$	1.6		CUB		717
Ir_3U			L1_2	1.2	412
Ir_3V			C15	0.35	270
$\text{Ir}_{0.99-0.85}\text{V}_{0.01-0.15}$	0.086-0.26				963
Ir_2U			L1_2	4.2	1299
$\text{IrV}(\beta)$			L1_0	1.36	1299
$\text{IrV}(\alpha)$			ORTHO	1.6	1299
$\text{Ir}_{0.31-0.37}\text{V}_{0.69-0.63}$	0.91, 1.39, 1.71		A15		1446 948# 173
IrV_3			A15	0.015	948# 707 1578 498 270 173
$\text{Ir}_{0.33}\text{V}_{2.67}$	1.39				498
$\text{Ir}_{0.987-0.85}\text{W}_{0.013-0.15}$	0.105-0.41				963#
$\text{Ir}_{0.28}\text{W}_{0.72}$	4.46		D8_b		295# 276 557# 572#
$\text{Ir}_{0.25}\text{W}_{0.75}$	3.82-2.1				033
Ir_3Y	3.5				469
Ir_2Y	2.18, 1.09		C15		127 469 201
$\text{Ir}_{0.65-0.69}\text{Y}_{0.35-0.31}$	1.38, 1.44, 1.98				469
Ir_2Y_3	1.61				469
IrY_4				0.32	469
$\text{Ir}_{0.1}\text{Y}_{1.0}$	0.3-3.7				454
$\text{Ir}_{0.7}\text{Y}_{0.3}$	2.16		C15		469
$\text{Ir}_{0.01-0.02}\text{Y}_{0.99-0.98}$	0.49, 0.35				469
Ir_2Yb				1.3	247
Ir_2Zr	4.1		C15		173
IrZr_2	7.23		C16		1476 1478
Ir_3Zr_5			D8_8	1.2	1476
IrZr_3	2.13		TET		1476
$\text{Ir}_{0.1}\text{Zr}_{0.9}$	5.50		HEX		032
$\text{Ir}_{0-0.1}\text{Zr}_{1-0.9}$	5.4, 3.3 Max.				717
$\text{Ir}_{0.25}\text{Zr}_{0.75}$	8.0 Max.				∇ 1438
K			A2	0.08	023 494
$\text{K}_{\sim 0.5}\text{MoO}_3$	4.2		TET		1212
$\text{K}_{\sim 0.9}\text{MoO}_3$				1.3	1212
$\text{K}_{0.4}\text{MoS}_2$	6.1		HEX(2H)		1920 1530

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.	
$K_{0.4}MoS_2$	5.5		HEX(3R)		1920 1530	
$K_{0.28}MoS_2$	≈ 6.2				1974	
KNa_2				1.05	258	
$K_{\sim 0.3}O_3Re$	3.6		HEX		1212	
$K_{\sim 0.9}O_3Re$				1.3	1212	
KOSrTaTi(See Table 4)						
$K_{0.27-0.31}O_3W$	0.50		HEX		500	
$K_{0.40-0.57}O_3W$	1.5		TET		500	
K_xO_3W (Powder)	2.52-1.0		HEX		1080	
KSb	5.70-3.31(Etched)			1.28	011	
K_2Te_3				1.46	427	
$La(\alpha)$	4.87	798	HEX		1158# 1016 1182# 1358 1468 806# 676# 808# 747 915 812 022#	La ₁ La ₀ LaN LaC
$La(\beta)$	6.00	1096	A1		1158# 806# 1564# 1468# 1361# 1182# 022 009 001 812# 227 115 536 572# 328 092	LaC LaC LaC LaC LaC
La (Powder study)	4.82	1350			1365	La
La		HF			1265 925	La
La (with SiO_2 and inert metals)	4.9-1		HEX		923	La
La (As cast, ~ 140 kbar)	11.93		A1, HEX		1016	La
$La(\beta, 23-40$ kbar)	8.2-9.2		A1		729 764	
$La(0\sim 140$ kbar)	5.9-11.93				1016	La
$La(\alpha, 0-225$ kbar)	4.8-11.5		HEX		1689 729	La
$La(1000-26,000\text{\AA})$	4.9, 5-6.74				$\nabla 607 \nabla 1255$ $\nabla 1565$	La La
$La(<1000\text{\AA})$				1.2	$\nabla 607$	La
La (Deposited 77K, 4000 \AA)	3.55				$\nabla 1921$	La
La (1% Rare earths)	$T_c^1 (+0.2+3.4)$				1143	L
$La_{0.99}Lu_{0.01}$	5.60		HEX		115	L
$La_{0.98}Lu_{0.02}$	4.643	HF			1271	L
$La_{0.8}Lu_{0.2}$	3.4		HEX		022 227	L
$La_{0.55}Lu_{0.45}$	2.2		HEX		022 227	L L

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{La}_{0.91-0.95}\text{Lu}_{0.09-0.05}$ (2200, 1600Å)	3.28, 4.37				∇1255
$\text{La}_{0.98}\text{Lu}_{0.02-0.007}\text{Tb}_{0-0.013}$	4.643-0.632	HF	HEX		1493 1271
LaMg_2	1.05		C15		658 270
LaMg				0.33	658
$\text{La}_x\text{Mo}_{1-x}$ (Co-sputtered)	7.6 Max.				∇1565
$\text{La}_{0.2}\text{Mo}_{6.35}\text{Pb}_{0.8}\text{S}_8$	13.2	HF			1759
LaN	1.35	HF			668
$\text{LaN}_{0.98,0.99}$			B1	1.38	559 558 040 067
$\text{La}_{0.94-0.92}\text{Nb}_{0.6-0.68}$ (Co-sputtered)	4.2-3.2-6.7				∇1565
$\text{La}_{1-0.956}\text{Nd}_{0-0.044}$	6.3-1.4				171 115 200
$\text{La}_{0.78}\text{Ni}_{0.22}$ (Liquid quench)	3.0				1908
LaNiO_3				1.02	181
$\text{La}(\text{O}_2\text{Si})_{0.05-0.13}$ (Volume fraction)	3.3-<1				∇1565
$\text{La}_{0.01}\text{O}_3\text{Sr}_{0.99}\text{Ti}$ (See Table 4)					
LaOs_2	8.9		C15		1897# 1376
LaOs_2	5.9, 6.5		C14		1375 127
LaP			B1	1.68	558
LaPb_3	4.07		L1_2		768# 715 1240 099
$\text{La}_{1-0.7}\text{Pb}_3\text{Pr}_{0-0.3}$	4.07-<0.3		L1_2		768#
$\text{LaPb}_3(1-x)\text{Sn}_{3x}$	6.0 Max. 3.5 Min.		L1_2		715
$\text{La}_{1-x}\text{Pb}_3\text{Th}_x$	Max. 4.2, 5.6		L1_2		715
$\text{LaPb}_{3x}\text{Tl}_{3(1-x)}$	Max. 2.1, 4.4		L1_2		715
LaPd_3			L1_2	0.32	469
$\text{La}_{0.99}\text{Pr}_{0.01}$	5.3				115 608
$\text{La}_{0.98}\text{Pr}_{0.02}\text{Ru}_2$	1.92, 1.82		C15		1490
$\text{La}_{3-2.58}\text{Pr}_{0-0.42}\text{S}_4$	8.1-2.7				1965
$\text{La}_{1-0.8}\text{Pr}_{0-0.2}\text{Se}$	10.2-<0.5				1965
$\text{La}_{3-2.25}\text{Pr}_{0-0.75}\text{Tl}$	7.7-0.8				1965
$\text{La}_{3-2.25}\text{Pr}_{0-0.75}\text{Tl}$	8.95-1.24		CUB		1154#
$\text{La}_{1-0.1}\text{Pr}_{0-0.1}\text{Tl}_3$	1.51-0.55		L1_2		768
LaPt_2	0.46		C15		469 127
LaPt_5			D2_d	0.32	469

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H _c (oersted)	Crystal Structure	T _n (K)	Refs.	
LaRh ₂			C15	0.32	469 127	
LaRh ₃	2.60				469	
LaRh ₅	1.62				469	
La ₇ Rh ₃	2.58		D10 ₂		469 658	
La _{0.001-0.01} Rh _{0.999-0.99}	1.6(broad)				563	
LaRu ₂	3.08, 4.1	HF	C15		1026 1783# 115 127	
La _{0-0.04} Ru ₂ Th _{1-0.96}	3.2-4		C15		1499	
LaS	0.84		B1		1965# 1370# 534 730	
La ₃ S ₄	8.06	HF	D7 ₃		1965# 1370# 730 534	
La ₂ S ₃			CUB	1.25	534 558	
La ₂ S ₃ (P=30-100 kbar), Temp. 1500-1800C)	5.9-6.6 7.2-7.6 8.3-8.6 10.4-10.7 14.1-14.5		CUB		1279	La
LaS ₂ (See Table 4)						La
La _{2.4} S ₄ Y _{0.6}	4.77		D7 ₃		1965# 1370#	
LaSb			B1	1.02	270	La
LaSe	1.02		B1		1965# 1370# 534	La
La ₃ Se ₄	7.8, 8.6	HF(534)	D7 ₃		1965# 1370# 534 770	La
La ₂ Se ₃				1.25	534	La
La, Se (See Table 4)						La
La _{2.4} Se ₄ Y _{0.6}	3.92		D7 ₃		1965# 1370#	
La ₅ Si ₃	1.6				288	
LaSi ₂	2.3		C _c		808# 1353 288 147 238 025 010 676# 572#	
LaSi _{1.82}			C _c	1.2	1353	
LaSi _{2.175}			ORTHO	1.2	1353	
La _{0.006} SiV _{2.994}	16.48		A15		1913	
La _{0.06} SiV _{2.94}	15.92		A15		1913	
La _{1-0.98} Sm _{0-0.02}	6.3-1.3				200 115	
LaSn ₃	6.5	HF(1329)	L1 ₂		1240 768 1131 715 1329	
La ₅ Sn ₃				1.4	863	

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$La_{1-0.98}Sn_3Pr_{0.02}$	6.55-<0.3		$L1_2$		768
$La_{1-x}Sn_3Th_x$	6.3 Max., ~7		$L1_2$		715, 1329
$LaSn_{3x}Tl_{3(1-x)}$	Max. 1.8, 6.0		$L1_2$		715
$La_{1-0.9}Sn_3Tm_{0-0.1}$	6.55-4.2		$L1_2$		768 1329
$La_{0.84}Sn_3Tm_{0.16}$	3.3	HF			1329
$La_{1-0.987}Tb_{0-0.013}$	6.3-1.4				200 115
LaTe	1.48		B1		1370# 1965#
La_3Te_4	5.3	HF(1024)	$D7_3$		1370# 1965# 1024
$La_{2.4}Te_4Y_{0.6}$			$D7_3$	1.7	1965#
$La_{0-1}Th_{1-0}$	1.28-6.0		A1		1182# 1361#
La_3Tl	8.86	1900	$L1_2$		1564# 1154
$LaTl_3$	1.57		$L1_2$		1240 768# 715
$La_{1-0.6}Y_{0-0.4}$	4.9-1.3		HEX		1182# 572# 1350# 227
$La_{0.95}Y_{0.05}$	5.40 4.4(Annealed)				022 227
$La_{0.85}Y_{0.15}$	3.06, 2.7		HEX		856 808# 022
$La_{0.75}Y_{0.25}$	2.0, 2.5				808# 022
$La_{0.7}Y_{0.3}$	1.85		HEX		1856
$La_{0.6}Y_{0.4}$	1.29				1856 808 022
$La_{0.48}Y_{0.52}$	1.0		RHOMB		808# 1182# 1350#
$La_{0.35}Y_{0.65}$	0.4		HEX		1350# 1182# 808#
$La_{0.15}Y_{0.85}$	0.1		HEX	0.1	808# 1182# 1350#
$La_{0.99}Y_{0.01}$	5.5				115 608
LaZn	1.04		B2		658
Li(RRR~4000)			A3	0.006	887 023
$Li_{0.4}MoS_2$	3.7		HEX		1920
$Li_{0.3}O_3W$	2.2-<1.3		HEX		1379
LiPb	7.2				085
$Li_{0-1.3}Pd$ (Ion implant)				0.1	164
LiS				1.0	1191

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.	
$Li_{0.1 \pm 0.3} S_2 Ti_{1.1}$	10-13		HEX		1191	0.94 ⁵
$Li_{1.0-1.5} S Ti$	2				1191	0.85 ⁵
$Li_{0.5-1} S_2 Ti_{1.1}$			TET	1.12	1191	~0.4
LiTi				1.0	1191	24 ⁵
$Li_{1.33-0.8} Ti_{1.67-2.2} O_4$	1.5-13.7		H1 ₁		1305	Y
LiZn			B32	1.14	2.58	0.9 ⁵
Lu(RRR=15)	0.10	<400	A3		1682 270 115 660 234	~0.9 ⁵
Lu(0.0005%Fe)				0.03	1682	
Lu(80-145 kbar)	<0.018~0.6				1994	
LuOs ₂	3.49		C14		127	
Lu ₃ Rh				0.32	469	
Lu ₂ Rh				0.32	469	
LuRh			B1	0.32	469	
LuRh ₂			C15	0.32	469	
LuRh ₅	0.49				469	
$Lu_{0.275} Rh_{0.725}$	1.27		C15		469	
LuRu ₂	0.86		C14		270 127 247	
LuS	1.1-0.8		B1		1219	
LuSe	0.44-0.56		B1		1219	
LuTe			B1	0.35	1219	
Mg(99.99%)			A3	0.002	1830 1655 1340 1214	
Mg(RRR ~10 ⁶)			A3	0.006	887# 012 1233 1213 1654 1166	
Mg(Deposited 1K)				0.35	∇1467	
Mg(Deposit 4.2K, 100Å)	5.5	HF			∇710	
Mg _x Mo _{1-x} (Co-sputtered)	6.3 Max.				∇1565	
$Mg_{0.9} Mo_{5.1} S_6$	2.5-2.4		RHOMB		1163	
Mg ₂ Pb	5.6				427	
$Mg_{0.98} Pb_{0.02}$				1.26	084	
$Mg_{0.93} Pb_{0.07}$				0.013	1340	
$Mg_{0.1} Pb_{0.9}$ (Quench condensed 0.4K)	4.87 6.61(Annealed)				∇1491	
MgRh			B2	1.02	279	
$Mg_{0.97} Sn_{0.03}$				0.013	1340	

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Mg_{0.94}Tl_{0.06}$				1.26	084
$Mg_{0.85}Tl_{0.15}$				0.013	1340
$Mg_{\sim 0.47}Tl_{\sim 0.53}$	2.75	220	B2		013
$Mg_{24}Y_5$			A12	1.3	557
MgY			B2	0.33	658
$Mg_{0.97}Zn_{0.03}$				0.013	1340
Mg_7Zn_3	0.26-0.28				1604
MgZn	0.87-0.92				1604
Mg_2Zn_3	0.72-0.76				1604
MgZn	0.89-0.93		C14		1604 037
Mg_2Zn_{11}	0.83-0.88		CUB		1604
Mn(α)			A12	0.15	023 572#
Mn(β)			A13	0.32	303 228 572#
Mn(Sputtered in Xe)			A12	0.08	∇ 1526
$Mn_{0.63, 0.73}Mo_{0.37, 0.27}$			$D8_b$	1.30	557
Mn_xMo_{1-x}	(Rapid decrease)				1833
$Mn_{0-0.005}NbSe_2$	7-<1.6				626
$Mn_{0.24}Ni_{0.76}$				1.30	076 572#
$Mn_{0.67}Ni_{0.33}U_6$	2.7		$D2_c$		1866
$Mn_{0.33}Ni_{0.67}U_6$	1.6		$D2_c$		1866
MnNiZr			C15	0.35	270
Mn_2O_3				1.28	011
$Mn_xO_xPb_{1-x}$ (500-700Å)	7.2-1.9				∇ 1053
MnP			B31	1.01	601 217
$Mn_{0-0.003}Pb_{1-0.997}$ (Deposited 7K)	7.2-2.3				∇ 354 ∇ 1601 ∇ 748 ∇ 1085 ∇ 1054
$Mn_{0-1400 \text{ ppm}}Pd_{1-x}Sb$	1.66-<0.1				1296
MnRe			$D8_b$	1.02	270
$Mn_{0.05}Rh_{0.04}Ti_{0.91}$	2.4				1060
$Mn_{0.2}Ru_{0.8}$					788#
MnSb			$B8_1$	1.0	037
$Mn_{0.03}SiV_{2.97}$	16.25		A15		1913
$Mn_{0.21}SiV_{2.79}$	15.5		A15		1913
$MnSn_2$			C16	0.07	1377 229
Mn_xSn_{1-x}	T'_c (≈ 0)				598
$Mn_{0-0.007}Sn_{1-0.993}$ (300-3000Å)	Data given				∇ 1417 ∇ 1085
MnSnTe (See Table 4)					

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Mn _{0.07} Ti _{1-0.93} (α)	0.6-2.3				093 171 126
Mn _{~0.08-0.25} Ti _{0.92-0.75} (β)	1.1-3.0				093 171 126
Mn _{0.14} Ti _{0.86}	2.55				759#
Mn _{0.02} Ti _{0.98}	1.9, 1.7				477 523 759#
Mn _{0.01} Ti _{0.99}	1.2				490
Mn _{0-0.0065} Ti				0.06	490
Mn _{0.0028-0.04} Ti _{0.997-0.96}	~3(quenched from 690C)			1.1 (quenched from 1000C)	523 522 572#
Mn _{0.002} Ti _{0.499} Zr _{0.499}				1.24	759 572#
MnU ₆	2.32		D2 _c		021 920 1866 1152
MnXe _x				0.08	∇1441
Mn _{0-28 ppm} Zn	0.85-0.12	54, 1-4, 5, HF			1322 1475 1835 1777 598 1030
Mn _{0.5 ppm} Zn	0.835	52.7			1778#
Mo(RRR=17,000)	0.916	96, 86	A2		1031 1572 1635# 1960 1833 228# 543# 300# 1159 788 566 464 972 1267 389 465# 572# 017 211 250 179 292 ∇503 ∇921
Mo(Deposited 4.2K)	4-6.7			2.5 (annealed)	
Mo(400-21,000Å)	3.3-3.8		CUB		∇1274 ∇1565
Mo(Ne, Ar, Kr, Xe) _x	4.85, 6.4, 6.8, 7.2		A2		∇1526 ∇1441
Mo(with SiO ₂ and inert metals)	1.7-6.5-<1		A2		923
Mo(with ~2x10 ⁻⁴ %Fe)	~0.7				1681
Mo ₂ N	5.0		CUB		011 095 815
MoN	12.0		HEX		011 815
MoN(P preparation)	14.8-13		HEX		1841
MoNa _{~0.9} ⁰ ₃				1.3	1212
MoNa _{0.3} S ₂	4.1		HEX		1920 1974
MoNa _x S ₂	~1.3(broad)		HEX		1530
Mo ₁₋₀ Nb ₀₋₁	0.915-0.016-9.22				253 240 207 885 1298 1081 811# 572# 441 465# 452

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Mo_{0.70}Nb_{0.30}$	0.016	2.7			432 300#
$Mo_{0.6}Nb_{0.4}$				0.05	300#
$Mo_{0.43-0.51}Nb_{0.57-0.49}$	0.181-~0.07	Data given, (1298)			369 1818# 1298
$Mo_{0.4}Nb_{0.6}$	0.60				300#
$Mo_{0.25}Nb_{0.75}$	3.47 3.36($P=27$ kbar)				1696
$Mo_{0.2}Nb_{0.8}$	4.23	747, HF			1103 1513 1298 1547# 1550 1452#
$Mo_{0.15}Nb_{0.85}$	5.30	Data given, HF			1103 1513 1298 572#
$Mo_{0.1}Nb_{0.9}$	6.30	Data given, HF			1298 1103
$Mo_{0.05}Nb_{0.95}$	7.84, 8.0	HF			1157# 1298 1103
$Mo_{0.02}Nb_{0.98}$	8.58				1513
$Mo_{0.01-0.07}Nb_{0.99-0.93}$	8.7-7.1	HF	A2		1929 441
$Mo_{0-1}Nb_{1-0}$ (Deposit 4.2K, amorphous)	6-9				∇1325
$Mo_{0.725}Nb_{0.061}Re_{0.187}$	5.0	HF			881
$Mo_{0.3}Nb_{0.1}Re_{0.6}$	10.1 Max.				∇1438
$Mo_{0.2}Nb_{0.2}Re_{0.6}$	7.6 Max.				∇1438
$Mo_xNb_{1-x}Se_2$	7.5 Max.				1872
$Mo_{0.03-0.39}Nb_{0.02-0.62}Ti$	0.02-9.9	HF(1391)			1862 1391
$Mo_{0.04-0.2}Nb_{0.5-0.3}Ti_{0.6-0.4}$	4.2-8.3				1553
$Mo_{0.85}Ni_{0.15}$				4.2	084
$Mo_{0.8}Ni_{0-0.02}Re_{0.2}$	~8-10				240
$Mo_{0.18}Np_{0-0.36}U_{1-0.64}$	2.0-0.48		CUB		1669
$Mo_{0.28}O_{0.72}$				1.28	069
MoO_2				1.30	84 119
$Mo_{1-x}O_{2x}Si_x$ (Co-sputtered)	6.4 Max.				∇1565
$MoOs_2$	5.2				182
$Mo_{0.62}Os_{0.38}$	5.65		$D8_b$		276 557# 572#
Mo_3Os (Different anneals)	12.5, 11.7, 7.2		A15		1692 1446 707 033
MoP			B_h	1.03	035 011 601
MoP_2				1.1	1583
Mo_3P	5.31		DO_e		601 217 035
Mo_4P_3	2.5		ORTHO		270 1995

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Mo _{0.15} Pb _{0.85}	3.08				1936
Mo _{5.1} Pb _{0.9} S ₆	13.2, 11.7	HF			1597 1163 1664
Mo _{5.1} Pb _{1.0} S ₆	14.4	HF			1597
Mo ₅ PbS ₇	12.5	HF			1725
Mo ₆ Pb _{0.92} S _{7.5}	15.2		RHOMB		1309
Mo ₆ Pb _{0.92} S _{7.5} (P=0-5-21 kbar)	13.5-14-11.8				614
Mo _{6.35} PbS ₈	12.6, 11.0	HF			1759
Mo ₆ PbS ₇	14.0	HF			1831
Mo _{6.3} PbS ₆ Se ₂	5.4	HF			1759
Mo _{6.35} Pb _{0.9} S ₈ Sn _{0.12}	~11	HF			1759
Mo _{6.35} Pb _{0.7} S ₈ Sn _{0.36}	10.0	HF			1759
Mo _{0.5} Pd _{0.5}	3.52		HEX		270 572# 465#
Mo _{1-0.8} Pt _{0-0.2}	1-2.7		A2		1721
Mo _{0.93} Pt _{0.17}	2.8		A2		1420
Mo _{0.91-0.915} Pt _{0.185 0.10}	4.65-4.53		A15		1420#
Mo _{0.85} Pt _{0.15}	4.59, 8.8		A15		707 1231
Mo _{0.815} Pt _{0.185}	4.62		A15		1692
Mo _{0.8} Pt _{0.2}	4.56		A15		707
Mo _{0.72} Pt _{0.28}	4.3, 5.6				845
Mo _{0.72-0.58} Pt _{0.28-0.42}	7.8-0.7		DO ₁₉		1721 1420
Mo _{0.69} Pt _{0.31}			A3	1.2	1721
MoPt ₂			ORTHO	1.0	845
Mo _{0.65-0.49} Pt _{0.35-0.51}			HEX (ordered and disordered)	1.0	845
Mo _{0.55-0.47} Pt _{0.45-0.53}			ORTHO	1.0	845
Mo _{0.45-0} Pt _{0.55-1}			CUB's	1.0	845
Mo _{0.8, 0.75} Pt _{0.2, 0.25}	0.3, 8.0 Max.				∇1438
Mo _{1-x} Pt _x (Co-sputtered)	7.0 Max.				∇1565
Mo _{0.35-0.8} Pt _{0.05-0.15}	5.0-11.25-5.32				1692
Re _{0.05-0.45}					
Mo _{0.5} Pt _{0.05} Re _{0.45}	5.32		D8 _b		1692
Mo _{0.55} Pt _{0.05} Re _{0.425}	11.25				1692
Mo _{0.18} Pu _{0-0.2} U _{1-0.8}	2-<0.39		CUB		1669
MoRb _{0.3} S ₂	6.25		HEX		1920
Mo _{0.95-0.62} Re _{0.05-0.38}	1.2-12.2	HF(453)	CUB		266 253 1696 465# 453

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Mo}_{0.9}\text{Re}_{0.1}$	2.92 2.97(P=27.9 kbar)				1696
$\text{Mo}_{0.865}\text{Re}_{0.135}$	6.1	HF			881
$\text{Mo}_{0.815}\text{Re}_{0.185}$	8.27	HF			881
$\text{Mo}_{0.66}\text{Re}_{0.34}$	11.8	HF			1331# 429 406 310 453
$\text{Mo}_{0.6}\text{Re}_{0.4}$	10.6	HF			555
$\text{Mo}_{0.57}\text{Re}_{0.43}$	14.0				592
$\text{Mo}_{0.52}\text{Re}_{0.48}$	11.1				555 1151
$\text{Mo}_{0.5}\text{Re}_{0.5}$	11.6, 7.3, 6.4				276 266 253 182 202
$\text{Mo}_{0.5}\text{Re}_{0.5}$	6.5		$D8_b$		1092 182
Mo_3Re	10.0, 9.8	HF(383)			327 136 383
$\text{Mo}_{0.42}\text{Re}_{0.58}$	6.35, 6.5, 8.4				557# 572# 295# 276
$\text{Mo}_{0.45-0.33}\text{Re}_{0.55-0.67}$	5.7-8.6		$D8_b$		266 253 1625# 276
MoRe_3	9.26, 9.89		A12		182 270 1478
$\text{Mo}_{0.28}\text{Re}_{0.72}$	6.5				266 253 572#
$\text{Mo}_{0.23}\text{Re}_{0.77}$	9.25		A12		557# 266 253
$\text{Mo}_{0-0.12}\text{Re}_{1-0.88}$	1.6-7.9		HEX		266 253
$\text{Mo}_{0-0.01}\text{Re}_{1-0.99}$	1.69-1.70				1257 1646
$\text{Mo}_{1-0}\text{Re}_{0-1}$ ($\sim 50,000\text{\AA}$)	$<1\sim 15$				∇ 1950
$\text{Mo}_{0.38}\text{Re}_{0.62}$ (5000-190,000 \AA)	$\sim 9-15$				∇ 1320
$\text{Mo}_{\sim 0.7}\text{Re}_{\sim 0.3}$	~ 15		A15		∇ 1384
$\text{Mo}_{1-0}\text{Re}_{0-1}$ (Deposit 4.2K, amorphous)	9-9.5-7.5				∇ 1325
$\text{Mo}_{0.8}\text{Re}_{0.2}\text{Rh}_x$	$\sim 10\rightarrow 10$				240
$\text{Mo}_{0.8}\text{Re}_{0.2}\text{Ru}_x$	$\sim 10\rightarrow 10$				240
$\text{Mo}_{0.97-0.85}\text{Rh}_{0.03-0.25}$	1.5-8.2		CUB		128
MoRh	1.97		HEX		033 352
MoRh_x	$\sim 1.7-0.03$		HEX		1570
$\text{Mo}_{0.75}\text{Rh}_{0.25}$	6.6 Max.				∇ 1438
$\text{Mo}_{0.05}\text{Rh}_{0.04}\text{Ti}_{0.91}$	3.3				1060
$\text{Mo}_{0.61}\text{Ru}_{0.39}$	7.18		$D8_b$		557# 572# 465#
$\text{Mo}_{0.6}\text{Ru}_{0.4}$ (Plasma jet sprayed)	8.7		HEX		1033
$\text{Mo}_{0.6}\text{Ru}_{0.4}$	7.0		$D8_b$		276 572#
MoRu	9.5-10.5		HEX		033 352

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Mo _{0.39} Ru _{0.61}	6.9		D8 _D		182
Mo _{0.25-0.025} Ru _{0.75-0.975}	2.6-0.59		HEX		224 033 465#
Mo ₁₋₀ Ru ₀₋₁ (Deposit 4.2K)	9-9.5-<1.7				∇ ₁₃₂₅
Mo _{0.69-0.56} Ru _{0.31-0.44}	8.4, 8.0 Max.				∇ ₁₄₃₈
MoS ₂			HEX's	1.25	918 011 084 572#
Mo ₂ S ₃			TRI	0.3	1584
MoS ₂ (See Table 3)					
Mo ₃ SSe ₃	3.4		RHOMB		1309
Mo ₃ S ₂ Se ₂	3.3		RHOMB		1309
Mo ₆ S ₇ Sn	13.0				1831
Mo ₅ S ₆ Sn	10.9-13.4	HF	RHOMB		1163 1193# 1597 1664 1725
Mo ₃ S ₄ Sn _{0.6}	14.2, 12.9				614
Mo ₃ S ₄ Sn _{0.6} (P=0-22 kbar)	14.2-10.2				614
MoS ₂ Sr _{0.2}	5.6	HF			1728 1532
MoS ₂ Sr _{0.06-0.1}	5.6	HF	TET		1928
Mo ₂ S ₄ V				Data given	1824
Mo ₅ S ₆ Zn	3.0-2.7		RHOMB		1163
Mo ₅ S ₆ Zn (P=0-7-21 kbar)	3-3.2-2.7				614
Mo ₃ Sb ₇	2.31				1583
Mo ₃ Sb ₄	2.10				117
MoSe ₂			HEX	1.25	1918 084
Mo ₃ Se ₄	6.3		RHOMB		1309
Mo ₃ Se ₄	5.8		MONO		1584
MoSe ₂ (See Table 3)					
Mo ₃ Si	1.30, 1.402		A15		010 474 1446 1692 323
Mo _{0.77} Si _{0.23}	1.70		A15		1692
Mo ₃ Si ₂				1.20	010
Mo _{0.59} Si _{0.41}	1.34				042
MoSi ₂				1.20	010 042 119
Mo _{0.15-0.009} Si _{0.25-0.248}	4.54-16-14.0		A15		323
V _{0.6-0.745}					
Mo _{0.25-0.65} Si _{0.25} V _{0.5-1}			A15	1.9	323
Mo _{0.03-0.6} SiV _{2.97-2.4}	16.0-4.54				1913
Mo _{0.99} SiV _{2.01}				1.9	1913

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Mo ₃ Sn			A15	0.35	509
Mo ₃ Sn			CUB	1.0	509
Mo _{0.6-0} Tc _{0.4-1}	12.5-14.5- 12-16-9.3				615 202 408
Mo _{0.5} Tc _{0.5}	14.0	HF			202 465# 572#
Mo _{0.45} Tc _{0.55}	14.0				202 408
Mo _{0.4} Tc _{0.6}	13.5, 14.7	A15			1656 202
Mo _{0.3} Tc _{0.7}	12.0		D8 _b		202 408
Mo _{0.25} Tc _{0.75}	15.8				202 408
Mo _{0.1} Tc _{0.9}	13.4				202 408
Mo _{0.05} Tc _{0.95}	10.8				202 408
Mo ₃ Te ₄				0.31	1584
MoTe ₂	≈0.3				1584
Mo ₁₋₀ Ti ₀₋₁	<1.5-3.85-<1.5				1712# 522 399 252 268 301 289 126 218
Mo _{0.71-0.05} Ti _{0.29-0.95}	<1.5-3.85-<1.5				1712#
Mo _{0.91} Ti _{0.09}	2.95	HF			600 466
Mo _{0.6-0.06} Ti _{0.4-0.94}	3.7-1.3		CUB		275 572#
Mo _{0.25-0} Ti _{0.75-1}	3.6-3.9-2.1				929 126 218
Mo _{0.16} Ti _{0.84}	4.246, 4.1	HF			805# 740# 616 565# 1803 985
Mo _{0.1} Ti _{0.9}	3.25		A3		274 1188#
Mo _{0.0625-0.086} Ti _{0.94-0.92}	2.04-3.09		CUB		335# 178# 1412#
Mo _{0-0.05} Ti _{1-0.95}	1.8-3.3				931# 275 1412# 1613# 274 477
Mo _{0.003-0.3} U _{0.997-0.7}	1.2-0.38- 2.11-1.84				134 027 157 177 349 252 152 179 879 466 572#
Mo _{0.3} U _{0.7}	1.84, 1.97	HF	A2		177 349
Mo _{0.22} U _{0.78}	2.06	HF	A2		349 177
Mo _{0.18} U _{0.82}	2.07, 2.113		A2		177 1252
Mo _{0.14} U _{0.86}	2.02				177 1152
Mo _{0.12} U _{0.88}	1.95	HF	A2		349
Mo _{0.003-0.07} U _{0.997-0.93}	0.827-0.38-1.2				879#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Mo _{0.006} U _{0.944}	1.20 1.46(P=11 kbar)				879#
Mo _{0-0.05} V _{1-0.95}	5.3-1.9		Data given (441)		130 441
Mo _{0.5} V _{0.5}	0.11				788#
Mo _{0.3} V _{0.7}	0.76				788#
Mo _{0.15} V _{0.85}	2.28				788#
Mo _{0-0.5} V _{2-1.5} Zr	8.5-9.1-8.4				1323
Mo _{0.75} W _{0.75}				4.2	084
Mo _{0.5-0.83} Y _{0.5-0.17} (Co-sputtered)	<1.2-6.3 Max.				∇1565
Mo ₃ Zr				1.2	010
Mo ₂ Zr	0.125(1 hour at 1700C)		C15	0.025 (2 hours at 1840C)	1988 1586 956
Mo ₂ Zr(Arc quenched)	4.6, 4.75-4.27				956 640
Mo _{0.03-0.41} Zr _{0.97-0.59}	2.2-5.3-4.5	HF	CUB		956 289 399
Mo _{0.033-0.13} Zr _{0.97-0.87}	2.12-5.00-4.91		CUB		1855#
Mo _{1-x} Zr _x	5.4 Max. (at x= 0.27, 0.4)				∇1565
NHf ₀₋₁ Nb ₁₋₀					1238
NNb	16.0, 15.6	HF	B1		1473# 037 343 1038 1044 1079 1107 1234 1196 815 1542# 873 243 079 306 343 097 040 243 011 048 451 483 553 559 558
NNb	5.1		B _i	1.94	096 110
N _{0.92} Nb	16.3, 16.5, 15.6	HF	B1		1070 1510# 880# 110 096 572# 559 558
N _{0.84} Nb	13.5-12.95		B1		1510# 063
N _{0.8} Nb	8.9, 7.12		TET, plus		096 110 010 559 558
N _{0.48} Nb	5.5		HEX		096
NNb ₂	8.6		HEX		1527 815 110 010
N _{0-0.186} Nb _{1-0.814}	9.30-8.58	HF	CUB's		1208 771 248 190

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H _c (oersted)	Crystal Structure	T _n (K)	Refs.
N _{0.003} Nb _{0.997}	9.120				248 190
N _{0.85-1.04} Nb	14.3-16.5-15.7				1070 1940 588
NNb(Whiskers)	10-14.5	HF			582#
N _{0.8-1.1} Nb(>500Å)	12.3-16.2-8.7	HF			▽1786 ▽1439 ▽1433 ▽1443 ▽1527 ▽1275
NNb (1780Å)	15.23	HF			▽1406 ▽1473#
N _x Nb(1000-8000Å)	1.5-15	HF	B1		▽1445 ▽1174 ▽941 ▽505 ▽1524 ▽1501
NNb (25-10,000Å)	6.5-15.2-17				▽1461 ▽1567 ▽1828 ▽1694
NNb(RF reactive sputtering)	17.3, 15.25				▽1175 ▽819 ▽1396
N ₆ Nb ₅			HEX	1.77	▽1439
N ₅ Nb ₄	8.0-8.5		TET		▽1439
N _{0.9-1.34} NbO _{0.02-0.27}	14.7-9.6		CUB		▽622
N _{0.998} NbO _{0.002}	17.2-17.3				1234
N _x NbO _y	6.0-11				110
NNb _x O _y	13.5-17.0	HF			483
N _{0.91} Nb _{1-0.75} Ta _{0-0.25}	16.5-11.3		CUB		1070 1737
N _{0.91-0.92} Nb _{0.99-0.82} Ta _{0.01-0.18}	15.62-10.9	HF	B1		880
NNb ₁₋₀ Ti ₀₋₁	14.7-18-5.5	HF			1511 1203 588 1238
N _{0.85-0.95} Nb _{1-0.12} Ti _{0-0.88}	16.2-17.8-10.5		CUB		1070
N _{0.90} Nb _{0.114} Ti _{0.886}	10.1	HF	B1		880#
N _{0.88} Nb _{0.256} Ti _{0.744}	14.72	HF	B1		880#
N _{0.85} Nb _{0.66} Ti _{0.34}	17.61	HF			880# 1044
N _x Nb _y Ti _{1-x-y} (Deposited hot substrate)	15.5-~17-5	HF			▽1344 ▽1405 ▽839
N _x Nb _{0.88} Ti _{0.12} (Deposited hot substrate, 1000-8000Å)	7-12				▽1445 ▽1543
NNb _{0.7} Ti _{0.3-x} Zr _x	17-12.5				1238
NNb _{0.9} V _{0.1}	6.6-4.6				1511
N _{0.92-0.7} Nb _{1-0.34} Zr _{0-0.66}	16.4-10.5	HF	CUB		1070 652 588 553 517 880#
NNb ₁₋₀ Zr ₀₋₁	14.7-9.6				1511 1238
N _x Nb _y Zr _{1-x-y} (on hot substrate)	~15-9	HF			▽1344 ▽839
N _{0.47-0.49} O _{0.03-0.01} Ti	2.9-5.58		CUB		010

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_o (oersted)	Crystal Structure	T_n (K)	Refs.
$N_x O_y V_{1-x-y}$	5.8-8.2		CUB		010
$N_{0-2} Pd$ (Ion implant)				0.2	164
$N_{0.98} Pr$			B1	1.38	559 558
$N_{0.34} Re$ (Particles, 20-26Å)	4-5				146
NS	0.26				1986 1975#
$N_{0.97} Sc$			B1	1.38	069 559 558
N Se				1.30	119
NTa				1.20	010 691
NTa_2			HEX	1.2	010 906
$N_{0-0.018} Ta_{1-0.982}$	4.483-3.63				169
NTa (P=30-100 kbar, 1800°C)	6.5		B1		906
NTa			B_h	4.2	906
$N_6 Tb$				1.28	1815
NTh	3.3		B1		1971
$N_4 Th_3$				1.20	010
NTa (1200Å)	4.84		B1		∇505
NTa_2 (1200Å)				1.2	∇505
NTi	5.49		B1		1542# 010 011 559 694 1238
$N_{0.99-0.6} Ti$	4.35-<1.17		B1		694
$N_{0.84} Ti$	1.2				694
$N_{0.8-0.6} Ti$				1.17	694
NU			B1	1.20	010
NV	8.5		B1		1542# 010 011 694 1592 1593# 1238
$N_{0.99-0.785} V$	8-2		B1		694 1592 559 558
$N_{0.75} V$	2.3		B1		1592
$N_2 V_5$			HEX	1.20	010
$N_{0.97} W$			B1	1.38	559 558
NW_2			CUB	1.28	011
NY			B1	1.4	694
NZr	10.7	HF	B1		278 1961 1542# 1968 652 011 010 1238
$N_{0.984-0.932} Zr$	9.5-3.0		B1		559 558
$N_{0.906} Zr$			B1	1.38	559 558

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Na			A2	0.09	023
$Na_{\sim 0.9}O_3Re$			TET	1.3	1212
$Na_{0.28-0.35}O_3W$	0.56		TET		625 1080
$Na_{0.2}O_3W$	0.55		TET		500 1080
$Na_{0.2-0.4}O_3W$	3.05-0.7		TET(I)		1672
$Na_{0.10}O_3W$			TET(II)	0.040	500
Na_xO_3W	5.4-<1.3		HEX		1379
Na_xO_3W			E2 ₁	0.011	500 575
$NaPb_3$	5.62		L1 ₂		715
$Na_{0.08-0.02}Pb_{0.92-0.98}$		HF			1312 322 113
$Na_{0.1}Pb_{0.9}$ (Quench condensed)	5.93				∇1491
	7.04 (Annealed)				
Na_3Sb			HEX	1.45	427
NaTe				1.3	427
$Na_{0.1}Tl_{0.9}$ (Deposit 0.3K)	3.13				∇1900
	2.69 (Annealed)				
Nb (RRR 500-16,500)	9.26 9.27, 9.23	2061, HF	A2		1870# 1892 1021 1359 1577 1157# 743 722 1574 1639 133 913 1979 1771 620# 1775 572# 525# 465#
Nb	9.20-9.23	HF			1300 1298 1209 1237 954 994 1099# 544 721# 864# 938# 720# 727#
Nb	8.6-9.6	HF			001# 1087# 1002# 1017 771 1208 1513 1805 1638 1550 531 505 300 293 276 244 170 096 344 1197 1248 417 190 191 1326 110 024# 722 1147 995 1805

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Nb		HF			1560 538 1549 679# 400 334 1839 1316 883 751 895 832 827 1142 1135 1929
Nb(Deformed)	9.07-8.8				1347
Nb(with Cr, Hf, Mo, Ta, Ti, V, W or Zr) _y	Data given	Data given			441
Nb(95-10, 250Å)	6.3- .6	HF			▽1328 ▽913 ▽1293 ▽1251 ▽1199 ▽1436 ▽921 ▽719 ▽505 ▽518 ▽529 ▽503
Nb(1500-2000Å)	8.2-10.1				▽1206 ▽505 ▽1411
Nb(4000-12, 000)	8.20-9.81, 10.0				▽1199 ▽819 ▽719 ▽505 ▽529
Nb(Substrate 200, 400C, 5000-20, 000Å)	7.95-9.46				▽529
Nb(Deposited 700C)	9.3				▽1345
Nb(Ne, Ar, Kr, Xe) _x	<1.1, 1.98, 2.92, 4.45				▽1526 ▽1441
Nb _{0.22} Np _{0.03} U _{1-0.7}	2-0.55		CUB		1669
NbO	1.2, 1.38, 1.50		B1		1993 1843 1450 481 010 084
NbO ₂				Not given	1450
Nb _{1-0.965} O _{0-0.035}	9.23-6.13	HF	A2		1776# 1208 1788 771 190
Nb _{1-0.987} O _{0-0.013}		HF			1523 944 771 772 441 190
Nb _{0.45} O _{0.0024} Ti _{0.54}		HF			1796
Nb ₃ Os	0.94, 1.05	HF	A15		707 922# 1023 492 128 117 124 270
NbO ₂	2.52		A12		173
Nb _{0.5} Os _{0.5}	2.86		A12		276
Nb _{0.6} Os _{0.4}	1.78, 1.85		D8 _b		173 557# 572# 276 182
NbOs _{0.42} Pt _{2.58}			DO ₁₉	1.6	1299

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Nb ₃ Os _{0.02-0.1} Rh _{0.98-0.9}	2.42-2.30		A15		492
Nb ₃ Os _{0.3-0.9} Rh _{0.7-0.1}			A15	1.7	492
NbP ₂			MONO	0.3	1508 1583
Nb ₃ P, (NbP)	2.0		TET	(1.1)	1995 (1583)
NbPS(Prepared 65 kbar, Temp. 1100-1300C)	7.5-12.5		ORTHO		892
NbPSe				1.25	892
Nb ₃ Pb			A15(Weak diffraction lines)	9	1825
Nb ₇ Pb ₇ (Shock wave product)	~8				1591
NbPbS ₃	2.62.2.66		TET		778# 795#
Nb _{0.67} PbS ₃ Ta _{0.33}	2.01		TET		795#
Nb _{1-x} PbS ₃ Ta _x	2.7-2.0-3.3				795
Nb ₃ Pb _{0-0.3} Sn _{1-0.7}	18.0-18.16-18.1				299 1982
Nb ₃ Pb _{0.15} Sn _{0.85}	18.16				1982
Nb _{0.9} Pd _{0.1}	3.5				592
Nb _{0.6} Pd _{0.4}	2.47-2.04, 1.7		A12		276 295# 572#
Nb _{0.6} Pd _{0.4}	1.60		D8 _b , CUB		557
Nb ₇ Pd ₇	2.0		D8 _b		182
Nb ₃ Pd _{0.02-0.1} Rh _{0.98-0.9}	2.50-2.55		A15		492
Nb ₃ Pt	10.5, 10.9-8.11		A15		1446 922# 707 492 033 128 117 124
NbPt			B19	1.39	1299
NbPt ₂			ORTHO	1.46	1299
Nb _{0.9} Pt _{0.1}	2.5				592
Nb _{0.62} Pt _{0.38}	4.21, 3.73		D8 _b		557# 572# 295# 276 173 182
Nb ₃ Pt(rf sputtered, 10,000Å)	11.0		A15		1410
Nb ₃ Pt _{0.02-0.98} Rh _{0.98-0.02}	2.52-9.6		A15		492
NbPt _{1.8} Ru _{1.2}			HEX	1.6	1299
NbPt _{2.58} Ru _{0.42}			DO ₁₉	1.6	1299
Nb _{0.45} Pt ₃ Zr _{2.55}			HEX	1.6	1299
Nb _{0.65} Pt ₃ Zr _{0.35}			DO ₁₉	1.6	1299
NbPu _{0-0.2} U _{1-x}	2-<0.39		CUB		1669
Nb _{0.9} Re _{0.1}	4.5				592
Nb _{0.5} Re _{0.5}	2.0-3.8		D8 _b		276

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Nb_{0.4}Re_{0.6}$	2.5, 2.0		$D8_b$		2.76 182
$Nb_{0.4}Re_{0.6}$	2.36		A12		276
$Nb_{0.38}Re_{0.62}$	2.45		A12		557# 572# 418 295
$Nb_{0.29}Re_{0.71}$	5.60		A12		557# 572# 295
$Nb_{0.26-0.14}Re_{0.74-0.86}$	7.2-9.7-8.5		A12		418 295 557# 572# 182 173
$Nb_{0.05}Re_{0.75}Ta_{0.2}$	9.8		A12		1990
$Nb_{0.11}Re_{0.78}Ta_{0.11}$	8.8		A12		1990
$Nb_{0.9}Rh_{0.1}$	2.8				592
$Nb_{0.85}Rh_{0.15}$	3.00		B19		1299
Nb_3Rh	2.79, 2.64, 2.50		A15		1446 492 128 117
$Nb_{0.6}Rh_{0.4}$	4.21		$D8_b$		557# 572# 276 182
$Nb_{0.48}Rh_{0.52}$	3.76		$L1_0$		1299
$Nb_{0.45}Rh_{0.55}$	3.07		ORTHO		1200
$Nb_{0.375}Rh_{0.625}$	2.7		MONO(HEX)		1299
$NbRh_3$			$L1_2$	1.2	1299 412
$Nb_{0.45}Re_{0.55}$	6.2 Max.				∇ 1438
$Nb_3Rh_{0.98-0.9}Ru_{0.02-0.1}$	2.42-2.44		A15		492
$Nb_{0.05}Rh_{0.04}Ti_{0.91}$	2.4				1060
$Nb_{0.925}Ru_{0.075}$	4.2				293#
$Nb_{0.9}Ru_{0.1}$	2.8		A2		417 293# 572#
$Nb_{0.8}Ru_{0.2}$	4.8(427)		A2	1.0	417 293 427
$Nb_{0.7}Ru_{0.3}$				1.0	417 293#
$Nb_{0.6}Ru_{0.4}$	1.2		TET		417 293# 572#
$Nb_{0.4}Ru_{0.6}$	2.5				276
$NbRu_3$ (P=100 kbar, Temp. 1200-1300C)	15-16		$L1_2$ plus		667
$NbRu_3$	11-12		HEX		667
NbS				1.28	010
NbS_2	6.0, 6.2	HF	HEX(2H)		1853 1266 1192 1027 778 675
NbS_2	5.0-5.5		HEX(3H)		675 796# 1951# 572# 810#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
NbS ₂ (P=0, 7, 13 kbar)	6.23, 6.20, 6.26	HF			1853
NbS ₂ (See Table 3)					
NbS ₃ Sn	2.85-2.63		TET		1150#
Nb _{0.9-0.7} Sb _{0.1-0.3}	5.8-<0.5		A15		1002
Nb _{0.83} Sb _{0.17}	1.95, 2.0		A15		1002#
Nb ₃ Sb			A15	0.4	801 128 142 370 117
Nb ₃ Sb(Sputter or evaporate)	2.2-1.8		A15		1825
Nb ₅ Sb ₄	8.60		Data given		1582
NbSb ₂			MONO	0.3	1584 1508 711
Nb ₃ Sb _{0-0.3} Sn _{1-0.7}	18.05-14.7		A15		315 299 947 1982
Nb ₃ Sb _{0-0.7} Sn _{1-0.3}	18.0-6.8		A15		311 419
Nb ₃ Sb _{0-0.3} Sn _{1-0.7}	18.2-15.8		A15		1236
Nb ₃ Sb _{0.3-0.8} Sn _{0.7-0.2}	15.8-<4.2		A15's		1236
Nb ₃ Sb _{0.8-1} Sn _{0.2-0}			A15	4.2	1236 311
Nb ₃ Sb _{0.15} Sr _{0.7} Ti _{0.15}	16.04				1982
Nb _{~0.8-0} Sb _{0.2-0.25} Ti _{0-0.75}	5.3-2-3-1.95 (quenched) 6.5-1.8-3.1-2 (annealed)		A15		1002#
Nb _{0.50} Sb _{0.25} Ti _{0.25}	3.05				1002#
Nb _{0.25} Sb _{0.25} Ti _{0.5}	1.95, 2.05		A15		1002#
NbSc		HF			399 289
Nb ₃ Se ₄	1.61		Data given		1582
Nb ₂ Se ₃	2.1		Data given		1584
NbSe ₂	7.3	HF	HEX(2H)		1500 1869 1891 1514 1094
Nb _{0.96-1.06} Se _{2-2.2}	7.0, 5.9-6.3		HEX(4H)		1758 647
NbSe ₂	5.15-6.95		HEX(2H)		1695 1094 636 1885 992
NbSe ₂	7.0-7.38	HF			1505# 1557 1827 1826# 1809 1423 647 1536# 1262 1723 996 1717 1503
NbSe ₂	2.2-7				1809 1317 996 796# 636 647 654

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
NbSe ₂ (P=0-6.5-0 kbar)	7.16-7.77-7.35		HEX(2H)		1891
NbSe ₂ (P=0-60 kbar)	6.4-8.8		HEX(2H)		1283 1758 1321 1266 1853 1869
NbSe ₂ (P=60-100 kbar)	8.9-8.4, 7.35		New modification?		1283 1423
NbSe ₂ (12-30Å)	4.7-7				▽1535
NbSe ₃ Sn	3.09-2.96		TET		1150#
NbSe _{2-1.64} Te _{0-0.36}	7-7.18-3.0				992
NbSe _{1.38-0} Te _{0.62-2}	0.74-2.7				992
Nb _{0.67} Si _{0.33}				1.20	010
Nb ₃ Si	1.5		L1 ₂		409 311 1958
Nb ₅ Si ₃			TET	1.02	270
Nb _{0.63} Si _{0.37}				1.20	042
Nb ₃ Si ₂				1.20	010
NbSi ₂				1.20	010
Nb _{0.79, 0.75} Si _{0.21, 0.25}	9.3, 9.0 Max.		A15		▽1438 ▽1953
Nb ₃ Si _{0.6} Sn _{0.4}	6.5		A15		255
Nb ₃ Si _{0.5} Sn _{0.5}	8.3, 7.0		A15		419 255
Nb ₃ Si _{0.27} Sn _{0.73}	13.9		A15		419
Nb ₃ Si _{0.25} Sn _{0.75}	16.4		A15		419
Nb ₃ Si _{0.06} Sn _{0.94}	17.8		A15		419
Nb ₃ SiSnV ₃	4.0		A15		255
Nb _{0.03} SiV _{2.97}	15.8		A15		1913
Nb _{0.39} SiV _{2.61}				14	1913
Nb _{2.5} Si ₃ Zr _{2.5}			D8 ₈	1.1	262
Nb ₃ Sn	18.07, 18.02	HF	A15		149 196 147 1079 1164
Nb ₃ Sn	18.0-18.3	HF, 5350 (Ref. 1253)	A15		185 181 311 473 787 877 880 1064 1075 1164 1236 1239 1253# 1522 1850
Nb ₃ Sn	16.7-18	HF, 5300 (Ref. 1973)	A15		1742 1346# 1446 1040# 1093 1051 1063 593 572# 434 465# 467 447 419 383 386 316 1982

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H _c (oersted)	Crystal Structure	T _n (K)	Refs.
Nb ₃ Sn(Cont'd)					1973 1982 1834 498 033 034 124 128 242 298 406 365 298 189
Nb ₃ Sn		HF			310 326 365 321 434 485 564 1034 1743 174
Nb _{1-0.975} Sn _{0-0.025}	9.2-7		B2		1522
Nb _{0.94-0.28} Sn _{0.06-0.72}	6-18.1-<4.2				1699 1056 1059 139 242
Nb _{0.75-0.81} Sn _{0.25-0.19}	17.9-18.2-17.82 (18.2 at Nb _{0.77-8})				1742
Nb _{0.83-0.5} Sn _{0.17-0.5}	17.95 Max.				479
Nb _{3+x} Sn _{1-x} (order study)	5.9-18.4		A15		1798
Nb _{0.92} Sn _{0.08}	5.6		CUB		270
Nb _{0.9-0.6} Sn _{0.1-0.4}	17.9 Max.				1066
Nb _{0.84} Sn _{0.16}	5.6, 4.8		A15		311 593
Nb _{0.8} Sn _{0.2}	7.5(long anneal) 5.5 (short anneal)				593
Nb _{0.8} Sn _{0.2} (Various anneals)	5.5-18.5				311 139 242 1064 1982 593
Nb _{0.71} Sn _{0.29} (Weight fractions, vapor deposit)	18.3, 15.5				1849 1847
Nb _{0.8} Sn _{0.2} (Shock wave preparation)	17.3				1591
Nb _{0.76} Sn _{0.74} (Different anneals)	18.1, 17.5				311
Nb _{0.72} Sn _{0.28} (Different anneals)	18.2, 16.0				311
Nb ₃ Sn ₂	17.2, 16.6		TET		355 1695
Nb ₆ Sn ₅	2.07, <2.8		ORTHO	0.3	964 1210 1522
Nb _{0.5} Sn _{0.5}	17.91, 17.63				139 242
Nb _{0.5} Sn _{0.5} (Shock wave preparation)	17.5				1591
Nb ₂ Sn ₃			TET	~5	355
NbSn ₂	2.6, 2.68	620	ORTHO		1522 964 461 407
Nb ₃ Sn (Strain and torsion study)	18-16.1				359
Nb ₃ Sn (0-18 kbar)	17.77-17.5		A15		1603 970 816 1079 1446 977

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Nb_3Sn(0.5 \times 10^{19} n^1/cm^2)$	18-2.6	HF			1660
$Nb_3Sn(Al_2O_3 \text{ Powder})$	17.7-18.1	HF			831
$Nb_3Sn(Fe_2Mn_{0.5}Zn_{0.5}O_4)$	14.7-17.0	HF			831
$Nb_3Sn(\text{rf sputtered, } 3000\text{\AA})$	17.4		A15		∇ 1410 ∇ 1825
$Nb_3Sn(\text{Deposited } 800\text{-}950\text{C, } \sim 10,000\text{\AA})$	18.3-5				∇ 1807 ∇ 1744 ∇ 1848 ∇ 298
$Nb_{0.96-0.33}Sn_{0.044-0.67}$ (300-10,000\AA)	7.2-17.8-10.2				∇ 1751
$Nb_{0.75-0.82}Sn_{0.25-0.18}$ (Vapor deposit)	18.31-8.2	HF			∇ 1167
$Nb_3Sn(\text{Bi, Mo, Si, Ta, Ti, V})$	15.2-16.8	HF			∇ 1437
Nb_3Sn (See Table 3)					
$Nb_{0.69}Sn_{0.25}Ta_{0.06}$	17.8		A15		473 185
$Nb_{0.625}Sn_{0.25}Ta_{0.125}$	17.6		A15		473 185
$Nb_{0.5}Sn_{0.25}Ta_{0.25}$	16.4		A15		473 185
$Nb_{0.25}Sn_{0.25}Ta_{0.5}$	10.8		A15		473 185
$Nb_{(1-x)3}SnTa_{3x}$	17.9-18.1-14.3				1066 242 139
$Nb_{0.5}Sn_{0.25}Ta_{0.125}V_{0.125}$	12.2		A15		185 473
$Nb_{0.25}Sn_{0.25}Ta_{0.25}V_{0.25}$	6.2		A15		185 473
$Nb_{(1-x)3}SnTi_{3x}$	17.9 Max.				1066
$Nb_3Sn_{1-0.7}Tl_{0-0.3}$	18-18.17-18.05				1982 299
$Nb_3Sn_{0.85}Tl_{0.15}$	18.2 Max.				1982
$Nb_{0.625}Sn_{0.25}V_{0.125}$	14.2		A15		473 185
$Nb_{0.5}Sn_{0.25}V_{0.25}$	9.8		A15		473 185
$Nb_{0.375}Sn_{0.25}V_{0.375}$	7.4		A15		255
$Nb_{0.25}Sn_{0.25}V_{0.5}$	5.5		A15		185 473
$Nb_{(1-x)3}SnV_{3x}$	17.9 Max.				1066
$Nb_3Sn_xZn_{1-x}$	\sim 6.9-17.8				420
$Nb_{0.75}Sn_{0.125}Zr_{0.125}$	16.7		A15		427
$Nb_{0.71-0.68}Sn_{0.25}Zr_{0.04-0.075}$	17.98, 18.07	HF	A15		880
$Nb_{(1-x)3}SnZr_{3x}$	17.9 Max.				1066
$Nb_3SnZr_x(10,000\text{\AA})$	15.5-17.9				∇ 1838
$Nb_{1-0}Ta_{0-1}$	9.18-4.33	1880-7 0			1307# 940# 253 1929 911 441 834
$Nb_{1-0.79}Ta_{0-0.21}$	9.15-7.5				1991 1662 833
$Nb_{1-0.6}Ta_{0-0.4}$	9.23-6.56	HF			928#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Nb_{0.9913}Ta_{0.0087}$	8.87	2050, HF			864#
$Nb_{0.9844}Ta_{0.0156}$	8.76	2030, HF			864#
$Nb_{0.9575}Ta_{0.0425}$	8.55	1980, HF	B2		964# 1550 028 1611 911
$Nb_{0.9378}Ta_{0.0622}$	8.42	1890			864#
$Nb_{0.87}Ta_{0.13}$	8.15	1690, HF	B2		911
$Nb_{0.803}Ta_{0.197}$	7.50, 7.85	1750			864# 911 1837
$Nb_{0.64}Ta_{0.36}$	6.8	HF			244 410
$Nb_{0.58-0}Ta_{0.42-1}$	6.54-4.425	1295-815			1781# 455 428 410 911
$Nb_{0.5}Ta_{0.5}$	6.25	1220, HF			722 544 439 455 428 627
$Nb_{0.47}Ta_{0.53}$	6.2				244 410
$Nb_{0.4-0}Ta_{0.6-1.0}$	5.40-4.48	HF	B2		1513 911 1837
$Nb_{0.37}Ta_{0.63}$	5.31	HF	B2		911
$Nb_{0.29}Ta_{0.71}$	4.94		B2		911 244 1576 410
$Nb_{0.2}Ta_{0.8}$	4.64	HF			1103 441
$Nb_{0.17}Ta_{0.83}$	4.65, 4.82	HF			911 1837
$Nb_{0.16-0}Ta_{0.84-1}$	4.67-4.465- 4.480	882-795, HF	B2		1356 244 478 911 410 1103 1330 981 1837
$Nb_{0.025}Ta_{0.975}$	4.465	800, HF			1356
$Nb_{1-0.99}Ta_{0-0.01}$	9.273-9.079	HF			1775
$Nb_xTa_yTi_z$	<5-10.1	HF			1398 1391
$Nb_{0.31}Ta_{0.06}Ti_{0.62}$	~9	HF			1398 1391
$Nb_{0-0.36}Ta_{0.36-0}Ti_{0.64}$	7.5-9.0	HF			1398
$Nb_{0.05-0.65}Ta_{0.04-0.35}Ti_xZr_{0.04-0.1}$	7.7-9.8	HF			1465 1391
$Nb_{0.65-0.73}Na_{0.1-0.02}Zr_{0.25}$	>4.2	HF			225
$Nb_{0.97}Tc_{0.03}$	7.6		A2		1147
$Nb_{0.93}Tc_{0.07}$	7.0		A2		1147
$Nb_{0.69}Tc_{0.31}$			A2	2.0	1147
$Nb_{0.42}Tc_{0.58}$	10.9		A12, A2		1147
$Nb_{0.24}Tc_{0.76}$	12.9, 10.5		A12		1147 202
$Nb_{0.06}Tc_{0.94}$	12.8		A3		1147
$Nb_{0.03}Tc_{0.97}$	12.8		A3		1147

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Nb_3Te ($P > 59$ kbar, temp. 1330-1430C)			A15	2.5	1585
Nb_5Te_4				1.1	1583
Nb_3Te_4	1.49				711 1582
$NbTe_2$	0.6-0.66 0.5-0.74(Vapor transport)		HEX		796# 797 992 675
$NbTe_4$				0.025	1584
$Nb_{1.0-0.25}Ti_{0-0.75}$	9.22-10.02-7.6 9.2-9.7 7.2		CUB		901 253 885 441 1700# 1873 399 289 290 218 439 466 441 522 390
$Nb_{0.95}Ti_{0.05}$	9.41, 9.2	HF			1241 1611 1371# 1216
$Nb_{0.9}Ti_{0.1}$	9.61	HF			1241 1371# 289 1611 1754
$Nb_{0.85-0.25}Ti_{0.15-0.75}$	9.7-9.75-7.6				1745 1391
$Nb_{0.75}Ti_{0.25}$	10.02, 9.93, 9.8	HF			885 1241 1371#
$Nb_{0.7}Ti_{0.3}$	10.1 Max.	HF			1398 310 455
$Nb_{0.6}Ti_{0.4}$	9.2, 9.8 Max.	HF			592 725
$Nb_{0.55}Ti_{0.45}$	9.4	HF			830 818 321
$Nb_{0.5}Ti_{0.5}$	9.5, 10.3	HF			841 253 968
$Nb_{0.44}Ti_{0.56}$	8.99	HF			874 725 830 1391 1409
$Nb_{0.33}Ti_{0.67}$ (Various anneals)	8.4-6.5, 9.3				1803 841 968 991 253
$Nb_{0.36-0.02}Ti_{0.64-0.98}$	7.5-1.7				253
$Nb_{0.25}Ti_{0.75}$	6.3, 5.8-7.4				1800 253 815 999#
$Nb_{0.22}Ti_{0.8}$	6.15-6.6(as cast) 6.5, 6.9-7.8	HF			965 991 993 1414 1575 1442 682
$Nb_{0.15-0}Ti_{0.85-1}$	5.5-0.6(quenched)		A3		301 274 1638 1216 572# 554# 477#
$Nb_{0.025}Ti_{0.975}$	1.5		HEX		499
Nb_xTi_{1-x} (On hot substrate)	9-10.3-~5				∇ 1344
$Nb_xTi_yV_z$	3.8->10	HF	A2(where noted)		1399 1409
$Nb_{0.55}Ti_{0.45}V_{<0.03}$	>10				1399

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Nb _{0.5} Ti _{0.3} V _{0.2}	7.8	HF			1792
Nb _{0.5} Ti _{0.3} V _{0.2} (after 3.7x 10 ¹⁹ n ⁺ /cm ²)	7.5	HF			1792
Nb _{0.5} Ti _{0.2} V _{0.3}	8.5 8.0(Irradiated)				1792
Nb _{0.4} Ti _{0.4} V _{0.2}	7.6 7.35(Irradiated)				1792
Nb _{0.1} Ti _{0.4} V _{0.5}	5.3 5.05(Irradiated)				1792
Nb _{0.35} Ti _{0.64} W _{0.01}		HF			1391
Nb _x Ti _y Zr _z	Data given	HF			830 1876
Nb _{0.8-0.55} Ti _{0.1-0.4} Zr _{0.01-0.13}		HF			1391 1463
Nb _{0.75} Ti _{0.15} Zr _{0.1}	9.7	HF			830
Nb _{0.7-0.2} Ti _{0-0.8} Zr _{0.8-0}	6.2-12				1738
Nb _{0.69-0.52} Ti _{0.14-0.33} Zr _{<0.1-0.32}	9.1-9.8	HF			1391 1438 830
Nb _{0.5} Ti _{0.1} Zr _{0.4}	10.3	HF			1789 1391
Nb _{0.48-0.41} Ti _{0.48-0.15} Zr _{0.05-0.44}	8.6-8.9	HF			830
Nb _{0.35} Ti _{0.15} Zr _{0.5}	8.6, 9.3	HF			830
Nb _{0.35} Ti _{0.6} Zr _{0.05}	8.6	HF			1789 965
Nb _{0.35} Ti _{0.45} Zr _{0.20}		HF			1391
Nb _{0.21} Ti _{0.61} Zr _{0.18}	6.53-7.21				965
Nb _{0.19} Ti _{0.74} Zr _{0.07}	6.75-9.1(as cast)				965 1205
NbTi(Sputtered)			A15(Weak diffraction lines)	9	1825 311
Nb _x U _{1-x} (α)	0.9-1.0				134 027
Nb _{0.18-0.22} U _{0.82-0.78} (γ)	2.009-2.025		CUB		1252 134 027 177 466
Nb _{0.222} U _{0.778}	1.98	HF	A2		349 572#
Nb _{0.26} U _{0.74} (γ)	1.85				177
Nb ₀₋₁ V ₁₋₀	5.19-3.97-9.29	HF	A2		1307 1979 1623# 1875 253 441 027 572#
Nb ₀₋₁ V ₁₋₀	5.17-4.03- 9.18	1336-957- 1890			1307#
Nb _x V _y Zr _z	6-11.5				1889
Nb _{0-0.5} V _{2-1.5} Zr	8.5-9.7-9.2				1323

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Nb_{0.03-0.32}V_{0.64-0.46}$ $Zr_{0.32-0.23}$	9.65-4.34-5.42		C15		1707 1652
$Nb_{0.5}V_{1.5}Zr$	4.30		C14		1707
$Nb_{0-0.31}V_{0.67-0.36}Zr_{0.33}$	9.64-4.36-5.45		C15		1707
$Nb_{1-0.65}W_{0-0.35}$	9.2-1.5				253 441
$Nb_{0.6-0}W_{0.4-1}$				1.0	253 441
$Nb_{1-0.8}W_{0-0.2}$	Data given	HF	A2		441
$Nb_{1-0.98}Y_{0-0.02}$	9.25-9.38	HF			1771
$NbZn_3$			$L1_2$	1.02	270 311
$Nb_{1-0}Zr_{0-1}$ (u and 8)	9.2-10.7-0.5	HF			1806 465# 321 383 455 218 289 399 268 686
$Nb_{0-0.05}Zr_{1-0.95}$ (a)	0.7-4		A3(358)		1806 847 358
$Nb_{1-0.75}Zr_{0-0.25}$	9.2-10.98-8.3				1352# 885 441 253 1984
$Nb_{0.5-0.1}Zr_{0.5-0.9}$	10.2-6.4				1579
$Nb_{0.0125-0.06}Zr_{0.99-0.94}$ (α plus β precipitate)	3.2-10.0				847
$Nb_{0.06-0.88}Zr_{0.94-0.12}$	10-10.5 Max.	HF			847
$Nb_{0.9-0.6}Zr_{0.1-0.4}$ (weight fractions, practical starting elements)	10.2-11				1736
$Nb_{0.85}Zr_{0.15}$	10.8				1352# 572#
$Nb_{0.75}Zr_{0.25}$	10.75, 11.0	HF	A2		1157# 1387 1509 975 253 690 597 572# 429 368 406 310
$Nb_{0.7-0.66}Zr_{0.3-0.34}$	10.55-10.98	HF			1313 885 597 429 1594 1509 037
$Nb_{0.68}Zr_{0.32}$	10.05 10.55(after draw-down)				1313
$Nb_{0.6}Zr_{0.4}$ (Various anneals)	10.58-10.05- 10.75				1333
$Nb_{0.5}Zr_{0.5}$	10.75	HF			1301 1081 1818# 739 572# 429 441
$Nb_{0.5}Zr_{0.5}$ (0-3.8 kbar)	$T_c^!$ (+0.04)				970

N
N

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Nb _{0.38} Zr _{0.62}	8.7				1157# 572#
Nb _{0.25} Zr _{0.75}	10.45 Max.	HF			971 429
Nb _{0.2} Zr _{0.8}	8.0(Quenched) 8.5(Annealed)	HF			1579 971 991
Nb _{0.15} Zr _{0.85} (Various anneals)	6.2-10.2				1806 1579
Nb _{0.13} Zr _{0.87}	6.42(quenched)				1579
Nb _{0.1} Zr _{0.9} (Various anneals)	4-7.6				1806
Nb _{0.04} Zr _{0.96} (Various anneals)	4.9-8				1740
NbZr (Deposit 350, 630C, 3000-4000Å)	1.6-9.3	HF			∇1275
Nb _{0.2} Zr _{0.8}	9.2 Max.				∇1438
Nb _x Zr _{1-x} (Deposit, hot substrate)	9~11.5-6				∇1344
Nb ₁₋₀ Zr ₀₋₁ (Deposit 4.2K, amorphous)	6-3				∇1325
Nd(α)			A3'	0.25	023
Nd ₂ S ₃			CUB	1.68	558
NdSi ₂			C _c	1.0	025
Ni				0.35	270 272 572#
NiO				1.28	011
Ni ₃ P			DO _e	1.01	217 601
Ni ₂ P			C22	1.01	601 217
NiP				1.57	427
Ni _{0.05} Pd _{0.95} Te ₂	1.40		C6		301
Ni _{0.1} Pd _{0.9} Te ₂	1.30		C6		301
Ni _{0.05} Rh _{0.04} Ti _{0.91}	3.5				1060
Ni ₀₋₁ Rh ₁₋₀ Zr ₂	11.3-1.7		C16		1476
Ni _x Ru	0.45-0.2		HEX		1570
NiS				1.28	011 084
NiSb			B8 ₁	0.35	270 037 002
NiSb ₃				1.45	427
Ni _{0.12, 0.16} Sb _{0.88, 0.84} ("Gun" cooled)	1.5, 1.4		CUB, plus		1829
NiSi ₂			C1	1.00	037
NiSi				1.90	119
Ni _{0.93} Sn _{0.07}				1.26	084
NiT _a ₂	0.90		C16		1377
NiTe			B8 ₁	1.0	037

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
NiTe ₂			C6	1.2	301
Ni ₃ Th ₇	1.98		D10 ₂		173
NiTi			A2	1.02	270
NiU ₆	0.86, 0.41, 0.33		D2 _c		1866 920 021
NiU				1.12	021
Ni _{0-0.03} V _{1-0.97}	5.3-2.1		CUB		314 572#
Ni _{0.22} V _{0.78}	0.3, 0.35		A15 (~80%)		707 948
Ni _{0.175-0.225} V _{0.825-0.775}	0.3-0.78		A15, plus		707 948 1023
Ni _{0.5} V _{0.16} Zr _{0.34}	0.43		C15		270
Ni _{0-~400 ppm} Zn	T_c (~0.1)				598
NiZr ₂	1.6		C16		1355 1377 1476 914 1478 032
Ni _{0.1} Zr _{0.9}	1.50		HEX		032
Np			ORTHO	0.4	581 495 226 1669
O ₂ Mo				1.28	011
O ₂ Mo ₅				1.28	119
ONb	1.39		B1		1542#
O ₃ NbSr (See Table 4)					
O ₂ Pb				1.02	181 119
O _{0.105} Pd _{0.285} Zr _{0.61}	2.09		E9 ₃		270
O ₃ Rb _{0.33-0.20} W	2.15-2.9- <1.2-4.35	HF	HEX		1882
O ₃ Rb _{~0.26-~0.33} W	1.6-2.0, 2.9	HF	HEX		1882 1967# 1943# 1942# 1186 1080 500
O ₃ Rb _{0.27-0.29} W	1.98				500
O ₃ Rb _{~0.33} W(acid etched)	2.84-2.36, 4.75, 7.7	HF			1883 1943 1080
O ₂ Re				1.3	1212
OReTi	5.74				181
O ₃ Rh ₂				1.28	011
O _{0.14} Rh _{0.287} Ti _{0.573}	3.37		E9 ₃		270
O _{0.105} Rh _{0.285} Zr _{0.61}	11.8		E9 ₃		270
O ₃ Sn ₂				1.30	119
O ₃ Sn	3.81(?)				084
O ₃ Sn _{0.21, 0.24} W			HEX	1.3	1379

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H _c (oersted)	Crystal Structure	T _n (K)	Refs.
O ₃ Sn _{0.19} W			TET	1.3	1379
O ₃ SrTi (See Table 4)					
O ₃ Sr _{0.08} W	2.0-4.0		HEX		644
O _{0.006-0.028} Ta _{0.944-0.972}	4.185-3.48		A2		248
O Ti	0.60		B1		1542# 481 010
O Ti	1.28, 0.7		MONO		1472
O _{0.86-1.25} Ti	0.66-1.06		B1		1472
O _{0.85-1.25} Ti (Quenched from 50-60 kbar)	<1.3-2.0				1272
O _{0.85-1.20} Ti	0.05-1-0.08				1450# 1272
O _{1.07} Ti	1.0 Max.		B1		1450
O _{1-x} Ti _{1-x} (Vacancies) _x (0-90 kbar)	0.6-2.3		B1		835
O ₃ Ti ₂				1.30	119
O ₃ Tl ₂				1.28	011 084
O ₃ Tl _{0.30} W	2.00-2.14		HEX		644
O ₂ U				1.28	011
O ₃ V ₂				1.28	011
O _{0.8-1.1} V			B1	0.07	010 1450
O _{~0.03} V _{0.97}	1.8-2.4		CUB		248 441
O V ₃ Zr ₃	7.5		E9 ₃		270
O ₃ W				0.3	575
O ₂ W				0.3	575 069 119
O W ₃	3.35, 1.1		A15		∇503
O W ₃				0.012	∇503
Os	0.66		A3		569 239 972# 001 029 132 446 302# 572# 963# 236
OsP				1.1	1583
Os _{0-0.12} Re _{1-0.88}	1.694-1.93-1.79				1257 952
Os _{0-0.12} Re _{1-0.88} (P=0-20 kbar)	T _c (-0.043 Max.)				952
Os _{0.058} Re _{0.942}	1.93 Max.		HEX		1646 952
Os _x Re _{1-2x} W _x	T _c (+0.025)				1046
OsReY	2.00				171 201
Os _{0.97} Rh _{0.03}	0.09		HEX		1368
Os _{0.38-0.33} Rh _{0.62-0.67}	0.095-0.018		A1		1118
Os _{0.2} Rh _{0.8}				0.015	963

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Os _{0.05} Rh _{0.04} Ti _{0.91}	3.5				1060
Os ₁₋₀ Ru ₀₋₁	0.62-0.46-0.48		HEX		1646# 572#
Os ₂ Sc	4.60		C14		127
OsSi			B20	0.60	270
OsTa	1.95		A12		173
Os _{0.3} Ta _{0.7}			D8 _b	1.0	276 182
Os ₂ Th			C15	1.02	270 572#
Os ₃ Th ₇	1.51		D10 ₂		173
OsTi	0.46		B2		270 173
Os ₂ U			C15	0.37	270
Os _{0.55} V _{0.45}	5.04		A15+Os		707
Os _{0.5} V _{0.5}	5.15		A15		948#
Os _{0.29} V _{0.71}			B2	0.37	270 173
Os _{0.9} W _{0.1}			HEX	1.0	266
Os _{0.8} W _{0.2}			HEX	1.0	266
Os _{0.74} W _{0.26}	4.40		D8 _b		182
Os _{0.7-0.52} W _{0.3-0.48}	3.7-0.9		HEX		266
Os _{0.45-0.37} W _{0.55-0.63}	4.1-3.7				266
Os _{0.34} W _{0.66}	3.81		D8 _b		276
Os _{0.33-0.22} W _{0.67-0.78}	3.6-2.5		D8 _b		266
Os _{0.25} W _{0.75}	3.02-2.21				033
Os _{0.15} W _{0.85}	2.2				266
Os _{0.1} W _{0.9}	1.5(Broad)				266
Os _{0.075} W _{0.925}	0.9		CUB		266
Os _{0.05-0.025} W _{0.95-0.975}			CUB	1.0	266
Os ₂ Y	4.7		C14		1478 127 171 201
Os ₂ Zr	3.0		C14		173 1478
Os _{0.33-0.2} Zr _{0.67-0.8}	<2-4.1		CUB's		955
Os ₄ Zr ₁₁			CUB	1.2	955
Os _{0.1-0.01} Zr _{0.9-0.99}	5.20-5.6-1.5		HEX		032
Os _{0.06} Zr _{0.94}	5.6		HEX		032
P (P=170 kbar)(99.999%)	5.8	HF			786 775
P (P=220, 230, 260 kbar)	~5.6, ~5.3, ~3.6	HF			786 775
P Pb	7.8				085 089 111
P ₃ Pd ₅				1.1	262
P ₂ Pd ₅				1.1	262

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
Pd_3	0.75-0.35		DO_{11}		491
P_3Pd_7 (High temp. phase)	1.00		RHOMB		491
P_3Pd_7 (Low temp. phase)	0.70				491
$P_{0.26}Pt_{0.74}$				0.35	491
P_4Re_3			MONO	1.1	1583
PRe_2			C23	1.13	1582
PRh_2	1.3		C1	1.03	491 035
$P_{0.44}Rh_{0.56}$ (P_3Rh_4)	1.22 (2.5)		(ORTHO)		035 (1995)
PRu				0.35	491
PRu_2				0.35	491 262
PTa (Prepared P-65 kbar, 1100-1300C)			ORTHO	1.25	892
$P_{0.4}S_{0.6}Y$			B1	0.36	1219
$P_{0.2}Si_{0.8}V_3$	16.6		A15		1976
$P_{0.3}Si_{0.7}V_3$	14.75		A15		1976
PSn	2.8-4.0		B1		1382
PSn			TET	1.25	1382
PSn (See Table 4)					
P_2Ta (PTa_3)	(0.4)		MONO(TET)	0.035	1508 1583 (1995)
PTi			B_1	1.13	1582
P_2Ti			C23	1.1	1583
PV			$B8_1$	1.01	601 217
P_2V			MONO	0.035	1508 1583
PV_3				1.0	128 117
P_2W	<0.3(?)		MONO	0.33	1508
PW			B31	1.01	601 217
PW_3	2.76		DO_e		601 217
P_2Zr (PZr_3)	(4.5)		C23 (TET)	1.1	1583 (1995)
$P_{0.95}Zr$ (α , high temp. form)	~4.6		B1		1915#
Pa	1.4		TET		504 1936
Pa			A1	0.4	1936
$Pa_{0.75}Zr_{0.25}$	1.54				1936
Pb (RRR=15,000)	7.195	803.4	A1		1709# 1907 1802# 001# 150 1639 1423 380 476# 024 653 1710 1267 1250# 1906 1287

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Pb(RRR= 5,000) (Cont'd)					666 586 430 357 322 906 1781
Pb(I)(P=0-110 kbar)	7.2-4.2				904 926 1906
Pb(II)(P=160 kbar)	3.55				780 904
Pb(II)(P=135-200 kbar)	3.6-2.9				1702
Pb(In porous media, 32Å, 58Å)	7.049, 7.150	96, 55			1642
Pb(~15-110Å)	~2-7.5				▽1259 ▽1927 ▽1894 ▽941
Pb(Deposited 10K, ~50-3000Å)	6.4-7.2, 7.26	HF			▽1680 ▽1268
Pb(Deposited 4.2K, 300K; 20-1000Å)	5.3-7.2	HF			▽1762 ▽1218 ▽672 ▽1648 ▽1403 ▽385 ▽602 ▽735 ▽752 ▽837 ▽985 ▽1124 ▽1644 ▽1739
Pb(<100Å, deposited 105K)	7.22 7.09(oxidized)				▽1062
Pb(with Mn, Gd, CuFe, CuMn, CuCo, CeAl ₂ etc.)					▽296 ▽733 ▽821 ▽598
Pb(Deposited 3K, with 10% SiO)	6.5				▽1218
Pb(Quench condensed at 0.4K)	7.03 7.16(Annealed)				▽1491 ▽1548
PbMo ₈ S ₇	11.1				1193#
Pb ₂ Pd	3.01			C16	1377 229 426
PbPd ₃			L1 ₂	0.10	1372 412
Pb ₂ Pd ₀₋₁ Rh ₁₋₀	1.4-2.0-1.7-3.0		C16		1377
Pb ₂₋₀ PdTi ₀₋₂	3.0-1.3		C16		1377
Pb _{0.8} Pt _{0.2}	2.8				229 398
PbPt	7.2-~1.5				▽756
Pb ₂ Rh	2.66		C16		229
Pb _{1.9} Rh	1.32		C16		1377
PbRh ₂				0.32	489
PbS				1.0	064 065 011 307 423
PbS ₃ Ta	3.07.3.11		TET		778#
PbS ₃ Ti			TET	0.05	778 795#
Pb _{1-0.99} Sb _{0-0.01}	T_c (+0.10)				1165
Pb _{1-0.95} Sb _{0-0.05}	T_c (+0.62)				1133 861

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$PbSb_x$		HF			689 458
PbSb(Eutectoid)	6.6				109 085
$Pb_{0.9}Sb_{0.1}$ (Quench condensed 0.4K)	6.28 7.27(Annealed)				∇1491
PbSe				1.26	084 002 064
$Pb_{1-0.97}Sn_{0-0.03}$	$T'_c(+0.04)$				1165 861
$Pb_{1-0.95}Sn_{0-0.05}$	$T'_c(+0.07)$				1133 861
$Pb_{0.96-0.87}Sn_{0.04-0.13}$		HF			322 457
$Pb_{0.57}Sn_{0.43}$	7.45	HF			1917
$Pb_{0.36}Sn_{0.64}$	7.75	HF			1917
$Pb_{0.28}Sn_{0.72}$	7.05	HF			1917
$Pb_{0.1-0.18}Sn_{0.9-0.82}$ (30 kbar, 280°C, to 78K, 0 kbar)	~5.6		(SnII?)		900
$Pb_{0.01}Sn_{0.99}$	3.752				1153
$Pb_{0-0.01}Sn_{1-0.99}$	3.731-3.734		TET		318#
$Pb_{0.9}Sn_{0.1}$ (Quench condensed at 0.4K)	6.77 7.17(Annealed)				∇1491
PbSnTe (See Table 4)					
Pb_3Sr	1.85		TET		715 1245
PbTe(Plus 0.1 weight % Pb)	5.19			0.020	669 1988
PbTe(plus <0.1 weight % Pb)	5.3-5.34	HF		0.020	669 1988
PbTe(plus 0.1 weight % Tl)	5.24-5.27			0.020	669 1988
PbTe (See Table 4)					
PbTe				1.28	011 064 119 423 1988
Pb_xTe_{1-x}	~20			0.020	1884 1341 1988
$Pb_{0.9}Te_{0.1}$ (Quench condensed at 0.4K)	5.35 6.92(Annealed)				∇1491
PbTe				2.4	∇1927
Pb_3Th	5.55		$L1_2$		715
$Pb_{1-0.98}Tl_{0-0.02}$	$T'_c(-0.07)$				1165
$Pb_{1-0.89}Tl_{0-0.11}$	$T'_c(-0.28)$				1133 861
$Pb_{1-0}Tl_{0-1}$	7.22-<1.24- 2.67	HF			736 1348 083 356 080 401 649
$Pb_{0.975-0.5}Tl_{0.025-0.5}$	540-555-185				356 401 080
$Pb_{0.99}Tl_{0.01}$	823.1, HF				979 1724# 586

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H (oersted)	Crystal Structure	T _n (K)	Refs.	
Pb _{0.96} Tl _{0.04}	7.06	864, HF			653# 1 641 322 586	d _{0.0} d _x Ru
Pb _{0.95} Tl _{0.05}		945			1724#	d _{0.3}
Pb _{0.93} Tl _{0.075}	6.98	880, HF			653#	d _{0.0}
Pb _{0.89} Tl _{0.11}	6.88	849, HF			653# 586	d ₄ S
Pb _{0.85} Tl _{0.15}	6.73	796, HF			653# 586	d _{2.6}
Pb _{0.79} Tl _{0.21}	6.43	756, HF			653# 586	d _{2.1}
Pb _{0.73} Tl _{0.27}	6.43	760, HF			1200 322	d ₂ S
Pb _{~0.6} Tl _{~0.4}	~5.8	HF			403 1434	d _{0.}
Pb _{0.53-0.47} Tl _{0.47-0.53} (No Brillouin zone effect)	5.637-5.312				1297	PdSb
Pb _{0.35} Tl _{0.65}	~3.8				074 080 082 098	Pd _{0.} PdSi
PbTl ₂	3.75, 4.10				082 071 080 098	Pd _{0.} Pd _{0.}
Pb _{0-0.003} Tl _{1-0.997}	T _c (+0.45)				209 1108	T N
Pb _x Tl _{1-x}	Data given				∇1126 ∇798	PdS
PbV ₃			A15	4.2	825	PdS
PbW				Data given	106	PdS
Pb ₃ Y	4.72		L1 ₂		715	Pd _{0.}
Pb ₃ Yb	0.23(broad)		L1 ₂		715	Pd _{0.}
Pb _{0.9} Zn _{0.1} (Quenched condensed at 0.4K)	6.37 7.12(Annealed)				∇1491	Pd _{0.} Pd
Pb ₃ Zr ₅	4.60		D8 _g		270	Pd
PbZr ₃	0.76		A15		270	
Pd			A1	0.10	023 572# 637 963#	
Pd(0.1-1% Xe)			A1	1.1	∇1526	
Pd _{0.4} Pt _{0.1} Rh _{0.5}				0.015	963	
Pd _{0.25} Pt _{0.25} Rh _{0.5}				0.015	963	
Pd _{0.9} Pt _{0.1} Te ₂	1.65		C6		301	
Pd _{0.95} Pt _{0.05} Te ₂	1.71		C6		301	
Pd _{0.75} Rh _{0.25}				0.015	963# 572#	
Pd _{0.5} Rh _{0.5}				0.015	963# 572#	
Pd _{0.95} Rh _{0.05} Te ₂	1.65		C6		301	
Pd _{0.05} Rh _{0.04} Ti _{0.91}	3.7				1060	
Pd _x Rh _{1-x} Zr ₂	8.8-11.3		C16		1476	
Pd _{0.04} Rh _{0.29} Zr _{0.67}	8.56		C16		1372	

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₂ (oersted)	Crystal Structure	T _n (K)	Refs.
Pd _{0.02} Rh _{0.31} Zr _{0.67}	9.85		C16		1372
Pd _x Ru	0.4		HEX		1570
Pd _{0.375} Ru _{0.375} Ta _{0.25}			L1 ₂	0.10	1372
Pd _{0.05} Ru _{0.05} Zr _{0.9}	~9				032
Pd ₄ S			TET	0.32	552
Pd _{2.8} S				0.35	491
Pd _{2.2} S(Quenched)	1.63		CUB		491
PdS				0.35	491
Pd _{0.63} Sb _{0.37}				0.35	491
PdSb	1.66		B8 ₁		1296# 037
Pd _{0.49-0.52} Sb _{0.51-0.48}	1.66, 1.67-1.42		Data given		1296# 950#
PdSb ₂	1.25		C2	0.35	270 491
Pd _{0.165} Sb _{0.835} (Rapid quench)	4.9		CUB		1116
Pd _{0.51} Sb _{0.49} (with ≤0.01 Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Nb, Mo or Ru)	1.67-<0.3				950# 1296
PdSbSe	1.0		C2		413 414
PdSbTe	1.2		C2		413 414
PdSc ₂			E9 ₃	0.32	469
Pd _{6.7} Se	0.66				552
Pd ₄ Se	0.42		TET		552 140
Pd ₅ Se ₂	2.3				140
Pd _{0.67} Se _{0.33}	2.2				140
Pd ₁₇ Se ₁₅			CUB	0.32	552 140 285 238
PdSe			CUB	1.00	140
PdSe			B34	0.32	552
PdSe ₂				1.5	140
Pd _{1.2-1.7} Se	2.5				140
PdSeTe			C6	1.2	301
PdSi	0.93		B31		270
Pd ₂ Sn	0.41		C37		491
Pd ₃ Sn ₂	0.47-0.64		B8 ₂		491 262
PdSn	0.41		B31		491
PdSn ₂	3.34				426
PdSn ₄			ORTHO	1.35	229 222
Pd ₂ Sr			C15	1.02	028
Pd ₄ Te			CUB	0.32	552

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
Pd_3Te	0.76				552
$PdTe$	3.85, 2.3		$B8_1$		552 039 037 572#
$Pd_{1.02-1.1}Te$	2.56-1.88- 4.07		$B8_1$		552 1587
$Pd_{1.75}Te_2$	2.25(Annealed) 1.93		C6		301
$Pd_{1.5}Te_2$	2.21(Annealed) 1.87		C6		301
$Pd_{1.25}Te_2$	2.20(Annealed) 1.90		C6		301
$PdTe_2$	1.45, 1.69		C6		1027 552 301
$Pd_{1.05}Te_2$	1.77		C6		301
$Pd_{0.95}Te_2$	1.89		C6		552
$Pd_{0.87}Te_2$	1.85		C6		552
$PdTe$ (See Table 3)					
Pd_5Th				0.32	469 572#
Pd_4Th			$L1_2$	0.10	1372
Pd_3Th				1.3	456
Pd_5Th_3				1.3	456
$PdTh$				1.5	711
$PdTh_2$	0.85, 0.75		C16		1377 469
$PdTh_2$	1.32		C16		1377
PdV_3	0.082		A15		707 948# 1023 980
$Pd_{1-0.75}W_{0-0.25}$			A1	0.2	846
$Pd_{0.74-0.56}W_{0.26-0.44}$	0.1-1.6		A1		846
$PdXe_x$				1.1	∇1441
Pd_3Y			$L1_2$	0.32	469 412
$Pd_{0.1}Zr_{0.9}$	7.5		HEX		032
Po				1.6	208
$Pr(\alpha)$			HEX	0.25	023
Pr_2S_3			CUB	1.68	558
$Pr_{0-0.3}Th_{1-0.7}$	1.37-0.3		CUB		768
Pt			A1	0.10	023 574 572# 637 963#
Pt				0.3	∇503 ∇756
$Pt_{0.2}Rh_{0.8}$				0.015	963

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Pt _{0.05} Rh _{0.04} Ti _{0.91}	4.3				1060
Pt _x Rh _{1-x} Zr ₂	6.8-11.3		C16		1476
Pt _x Ru	0.43-0.21		HEX		1570
PtSb	2.1		B8 ₁		037 396
PtSb (See Table 4)					
PtSbSe			C2	1.2	413 414
PtSbTe			C2	1.2	413 414
Pt ₃ Sc			L1 ₂	0.32	469
PtSc			B2	0.32	469 173
PtSc ₄				0.32	469
PtSi	0.88		B31		270
Pt ₃ Sn			L1 ₂	1.2	412
PtSn	0.37		B8 ₁		486
PtSn ₂			C1	0.34	486
PtSn ₄			ORTHO	1.3	229 222
Pt ₂ Sr			C15	1.02	028
Pt ₂ Ta			ORTHO	1.6	1299
PtTa	1.0		D8 _b		182
Pt _{0.3} Ta _{0.7}	1.45-<1.2 (Annealed) 1.4-<1.2 (Quenched)		D8 _b		276
Pt _{0.2} Ta _{0.8}			D8 _b	1.2	276
Pt _{0.15} Ta _{0.85}	0.400		A15		707 1023
PtTe	0.59		ORTHO		552
PtTe ₂			C6	1.2	301
Pt ₅ Th	3.13				469
Pt ₄ Th				0.32	469
Pt ₃ Th				0.32	469
Pt ₂ Th				0.32	469
Pt ₅ Th ₃				1.3	456
PtTh	0.44		B _f		469
Pt ₃ Th ₇	0.98		D10 ₂		469 270
Pt ₃ Ti				1.15	711
PtTi ₃	0.486, 0.58	HF	A15		707 270 010
PtTi ₂	1.58		C16		1377
Pt _{0.02} U _{0.98} (β)	0.87			1.2 (9.5 kbar)	698
Pt _{0.0175} U _{0.9825} (β)	0.85				700

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Pt ₃ V			L1 ₂	0.07	1372
Pt _{0.33} V _{0.67}				1.02	173
PtV ₃ (Various order states and anneals)	3.62-2.53		A15		707 1446 498 173 578
PtV ₃	3.20		A15		948# 645 707
PtV ₃	2.91(Quenched) 3.62(Annealed)		A15		1177
PtV ₃	2.53(As cast)		A15		707
Pt _{0.19-0.33} V _{0.81-0.67}	2.35-3.015- 0.199(Quenched) 2.4-3.62- 0.225(Annealed)		A15		1177 707 498 948#
Pt _{0.22} V _{0.78}	1.26, 1.76, 0.98		A15		707 498 948#
Pt _{1-0.73} W _{0-0.27}			A1	0.2	846
Pt _{0.98-0.95} W _{0.02-0.05}	1.1-2.2		CUB		239
Pt _{0.9-0.63} W _{0.10-0.37}	2.55-2.7		CUB's		239
Pt _{0.72-0.33} W _{0.28-0.67}	0.2-3.0		CUB		846
Pt _{0.6-0.3} W _{0.4-0.7}	0.4-2.15		CUB		239
Pt _{0.5} W _{0.5}	1.45				239
Pt _{0.25-0.1} W _{0.75-0.9}				0.3	239
Pt ₅ Y				0.32	469
Pt ₃ Y			L1 ₂	0.32	469 412
Pt _{2.2} Y	1.70		C15		469
Pt ₂ Y	1.57		C15		127 201
PtY				0.32	469
Pt ₂ Y ₃	0.9				469
Pt ₃ Y ₇	0.82		D10 ₂		469
Pt _{0.42} Y _{0.58}	0.76				469
PtZr	3.0		A3		032
Pu			MONO	0.4	1581 226 495 669
Rb			A2	0.011	494 245
Rb (P=0~150 kbar)				1.2	781
Re(RRR ~1000)	1.696	201			1636 029 221 382 1257 1243# 1220 972# 952 680 1254 045 362 147 161 1765 572# 465# 1470

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Re(0-100% elongation)	1.7~2.5 (at room temp.) 1.7~1.77~1.74 (at 1293 K)				1765
Re(125-4600Å)	2.5-4.9(high vacuum) 4.6-5.5(in N ₂)				∇1274 ∇1881
Re(Ar, Ze) _x	5.55, 5.9				∇1526
Re	1.9~7				∇503
Re('plastic' compression)	2.3 Max.				1881
Re ₁₋₀ Os ₀₋₁	1.7-1.93-0.7				1646#
Re _{0.94} Os _{0.06}	1.93				1646#
Re _{1-0.98} Rh _{0-0.02}	1.7-2.01				1646
Re _{0.05} Rh _{0.04} Ti _{0.91}	2.3				1060
Re ₁₋₀ Ru ₀₋₁	1.7-2.23-0.5				1646
Re _{0.83} Ru _{0.17}	2.23		HEX		1646
ReSe ₂				1.15	711
ReSi ₂				1.15	712
Re _{0.18} SiV _{2.82}			A15	14	1913
Re _{0.75} Ta _{0.25}	6.78		A12		182
Re _{0.65} Ta _{0.35}	1.58		A12		276 173
ReTa	1.3		D8 _b		182
Re _{0.4-0.25} Ta _{0.6-0.75}				0.006	713#
Re _{0.2-0.025} Ta _{0.8-0.975}	0.21-3.45	232-613			713#
Re _x Ta _{1-x} (Deposited 4.2K, amorphous)	3.8-7				∇1325
Re _{0.75} Ta _{0.25}	4.7 Max.				∇1438
Re ₁₋₀ Tc ₀₋₁	1.699-2.75-8.35		HEX		1303
Re ₂ Th	5.05		C14		711 1149
Re _{0.83} Ti _{0.17}	6.6, 5.1		A12		173 276
Re _{0.1-0.02} Ti _{0.9-0.98}	2.7 Max.				093 171 522
Re _{0.83} Ti _{0.17}	9.0 Max.				∇1438
Re ₂ U			ORTHO	1.02	270
Re _{0.92} V _{0.08}	6.8		A3		572#
Re _{0.9} V _{0.1}	9.4				270
Re _{0.76} V _{0.24}	4.52		D8 _b		412 295 557
Re _{0.6} V _{0.4}	2.2		A2		412
Re _{1-0.99} W _{0-0.01}	1.69-1.725				1257

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Re _{1-0.88} W _{0-0.12}	1.7-7.5				1646# 572#
Re _{1-0.84} W _{0-0.16}	1.6-8.0		HEX		266
Re ₃ W	9.0		A12		182
Re _{0.5-0.7} W _{0.5-0.3}	4.8-5.2		D8 _b		253
Re _{0.6} W _{0.4}	6.0, 4.9		D8 _b		266 136
Re _{0.5-0.52} W _{0.5-0.48}	5.03-5.2		D8 _b		266 557# 276 182 572#
Re _{0.4-0.15} W _{0.6-0.85}	5.1, 4.0-2.3		CUB		253 266
Re _{0.25} W _{0.75}	4.6	HF	CUB		266 289 572#
Re _{0.15} W _{0.85}	2.4		CUB		266
Re _{0.1} W _{0.9}			CUB	1.02	266
ReW _{0-0.002}	1.7-1.73				1646
Re ₀₋₁ W ₁₋₀	<2-11.41-8, 9-6 (Chem. vapor deposited) <0.5-5, 8.5-1.7 (Arc melted)				1854
Re ₁₋₀ W ₀₋₁ (Deposit 4.2K, amorphous)	7.5-3.5				∇1325
Re _{0.73} W _{0.27}	8.3 Max.				∇1438
Re _{0.6} W _{0.4}	9.7 Max.				∇1438
Re _{0.5} W _{0.5}	8.1 Max.				∇1438
Re _{0.67} Y _{0.33}	1.83		C15		127
Re _{0.67} Zr _{0.33}	6.0, 6.8		C14		133 270 427 1149 1478
Re _{0.86} Zr _{0.14}	7.4		A12		173 202
Re ₂₄ Zr ₅	3.0				427
Rh			A1	0.086	103 574 5 637 963# 1118
Rh				0.3	∇503
Rh _x Ru	0.37-0.11		HEX		1570
Rh _{1-0.55} Ru _{0-0.45} Se ₄	4.3-<0.05		C2		1185# 714#
Rh _{0.55-0} Ru _{0.45-0} Se ₄				0.05	1185
Rh _{0.04} Ru _{0.05} Ti _{0.91}	3.5				1060
Rh _{1-x} Ru _x Zr ₂	10.3-11.3		C16		1476
Rh _{0.97-0.875} Ru _{0.03-0.125} Zr ₂	10.8-10.1		C16		1372
Rh ₁₇ S ₁₅	5.8		CUB		035 238
RhSb			B31	0.35	270
Rh ₃ Sc			L1 ₂	0.32	469
RhSc			B2	1.02	279

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Rh_{0.32}Sc_{0.68}$				0.32	469
$Rh_{0.24}Sc_{0.76}$	0.88, 0.92 (Portion of sample)				469
$RhSc_4$				0.32	469
$Rh_{0.04}Sc_{0.05}Ti_{0.91}$	1.3				1060
$Rh_{0.53}Se_{0.47}$	6.0		C2		033
$Rh_{0.39-0.29}Se_{0.61-0.71}$	6 Max.				033 035
$Rh_{0.36}Se_{0.64}$	6.0		C2		035
$Rh_{0.29}Se_{0.71}$				1.04	035
$RhSi$			B20	0.35	270
$RhSn_2$	0.60		C16		1377
Rh_2Sr	6.2		C15		028 041
Rh_2Ta			C37	1.39	1299
$RhTa$	2.0		$D8_b$		182
$Rh_{0.4}Ta_{0.6}$	2.35		$D8_b$		276
$Rh_{0.33}Ta_{0.66}$	7.0 Max.				∇ 1438
$Rh_{0.04}Ta_{0.05}Ti_{0.91}$	2.3				1060
$RhTe_2$	1.51		C2		033 035 058
$RhTe_2$ (High temp. form)			C6	1.06	088
$RhTe$			$B8_1$	1.06	280 058
$Rh_{0.67}Te_{0.33}$	0.49				552
Rh_5Th	1.07				469
Rh_3Th			$L1_2$	0.32	469
Rh_2Th				0.32	469
$RhTh$	0.36		B_f		469
Rh_3Th_7	2.15		$D10_2$		270
$Rh_{0.91}Ti_{0.09}$	2.0				1060 522 440
$Rh_{0.88}Ti_{0.12}$	4.0		CUB		766
Rh_3Ti			$L1_2$	1.2	412
$RhTi_2$				1.2	1071
$Rh_{0.15-0.05}Ti_{0.85-0.95}$	3.95-2.25				093 171
$Rh_{0.135-0}Ti_{0.865-1}$	4.3 Max.				717
$Rh_{0.12, 0.1}Ti_{0.88, 0.9}$	4.0		CUB		717 1071#
$Rh_{0.08}Ti_{0.92}$	3.5		CUB		1071#
$Rh_{0.06}Ti_{0.94}$	2.6		CUB		1071#
$Rh_{0.04}Ti_{0.96}$	2.0		CUB		1060 766 717
$Rh_{0.03-0}Ti_{0.97-1}$	1.34-1.79-0.79		A3		1109# 766 1071#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Rh _{0.91} Ti _{0.4} V _{0.05}	2.9				1060
Rh _{0.91} Ti _{0.4} W _{0.05}	3.4				1060
Rh _{0.91} Ti _{0.04} Y _{0.05}	1.4				1060
Rh _{0.91} Ti _{0.04} Zr _{0.05}	1.8				1060
Rh ₃ U			L1 ₂	1.2	412
Rh _{0.02} U _{0.98}	0.96				698
RhV ₃			A15	0.015	707 1001 948 1496 270
Rh _{0.35} V _{0.65}	1.075 1.036(Long anneal)				1496
Rh ₃ V			L1 ₂	1.2	412
RhW	3.37-2.64.1.9		HEX		033
Rh _{0.3} W _{0.7}	7.3 Max.				▽1438
Rh ₁₋₀ Y ₀₋₁	1.45-0.4				454
Rh ₅ Y	0.56				469
Rh ₃ Y	1.07		C15		469
Rh ₂ Y			C15	0.32	270 469 127
RhY			B2	0.32	469
RhY ₂				0.32	469
Rh ₃ Y ₇			D10 ₂	0.32	658 469
Rh ₂ Y ₃	1.48				469
RhY ₃	0.65				469
RhZr	2.7			1.7	648 033
Rh _{0.45-0.10} Zr _{0.55-0.9}	~10.8				648
Rh _{0.4} Zr _{0.6}	5.9-7				033
RhZr ₂	11.36(Long anneal)		C16		1476 1478 1377 648 033
Rh _{0.33} Zr _{0.67}	11.25(As cast)				1858
Rh _{0.25-0.36} Zr _{0.75-0.64}	11.5-11.1(As cast)				1476
Rh _{0.027-0.005} Zr _{0.973-0.995}	4.8-3.5		A3		766 033
RhZr ₃	11.0		E9 ₃		766
Rh _{0.23-0.2} Zr _{0.77-0.8}	9.0				033
Rh _{0.17} Zr _{0.83}	9.6				033
Rh _{0.14} Zr _{0.86}	9.5		HEX		033
Rh _{0.15-0.1} Zr _{0.85-0.9}	12.2-11.6				459
Rh _{0.15-0} Zr _{0.85-1}	10.2-9.8(Annealed)				459
Rh _{0.14} Zr _{0.86}	11.1	HF			1858 033
Rh _{0.12} Zr _{0.88}	11.0		CUB		766

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Rh _{0.09-0.035} Zr _{0.9-0.965}	11.0-5.0		CUB		766 032 648 033
Rh _{0.08-0.03} Zr _{0.92-0.97}	6.1-3.1				1061# 572#
Rh _{0.08-0} Zr _{0.92-1}	6.4-6 (Unannealed)				459
Rh _{0.07-0.005} Zr	10.4-7.8				648 033
Rh _{0.04-0.02} Zr _{0.96-0.98} (m)	3.9-2.7				648
Rh _{0.03} Zr _{0.97}	3.1 10.4, 5.5 (As cast)				1061# 1858 033 1061
Rh _{0.02-0.001} Zr _{0.98-0.999}	4.3-2.1, 5.8, 1.5			1.7	648 033
Rh _{0.33} Zr _{0.66}	11.2 Max.				∇1438
Rh _{0.25} Zr _{0.75}	11.4 Max.				∇1438
Ru	0.493		A3		816 731# 920 132# 99 104 101 249 236 184 029 972# 569 001 572#
Ru(0.1-1% Xe)			A3	0.08	∇1526
RuS ₂			C2	0.32	552
RuSb			B31	0.35	491 1582 711
Ru ₂ Sb				0.35	491
Ru ₂ Sc	2.24		C14		1026 127 115
RuSe ₂			C2	0.32	552
RuTe ₂			C2	0.32	552
Ru ₂ Th	3.56		C15		173 572
RuTi	1.07		B2		270
Ru _{0.05-0.1} Ti _{0.95-0.9}	3.5, 2.5				093 171 522
Ru _{0.02-0.06} Ti _{0.6} V _{0.4}	6.6 Max.				171
Ru ₃ U			L1 ₂	1.2	412
Ru _{0.54-0.45} V _{0.46-0.55}	3.5-<0.4- 5.0-4.0				1930#
Ru _{0.5} V _{0.5}				0.4	1930 1119
Ru _{0.475-0.42} V _{0.525-0.48}	3-5, 7-3, 8-5- 2.1 (Annealed) 1.5-5.4-3.8- 4-3.5 (As cast)		TET, CUB		1757
Ru _{0.465} V _{0.535} (0-24 kbar)	5.8 Max.				1757
Ru _{0.46} V _{0.54}	5.0		B2		1930# 1706
Ru _{0.46} V _{0.54} (0-20 kbar)	4.85-5.05				1706
Ru _{0.452} V _{0.548}	3.8-4.2				1119
Ru _{0.45} V _{0.55}	4.0		B2		572

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Ru_{0.4}V_{0.6}$	~1				119 572#
$Ru_{0.58}W_{0.42}$	5.2		$D8_b$		182
RuW	7.5				033
$Ru_{0.4}W_{0.6}$	4.67		$D8_b$		276
$Ru_{0.5}W_{0.5}$	5.7 Max.				∇1438
$Ru_{0.4}W_{0.6}$	5.0 Max.				∇1438
$RuXe_x$				0.08	∇1441
Ru_2Y	2.42		C14		1026 127 115
RuY_3				4.2	1989
Ru_2Zr	2.4, 1.84		C14		1478 173
$Ru_{0.1}Zr_{0.9}$	5.7		HEX		032
S_3Sb				1.28	011
$S_{~1-1.1}Sc$	4.5-<1.5		B1		1915# 1219
SSc			R1	0.33	1210
$S_{2-0}Se_{0-2}Ta$	0.8-2.7-2.1, 3.8-4.1-<1		HEX's		1910
$S_{1.2}Se_{0.8}Ta$	3.9	HF			1262
$SSeTa$	3.7	HF			1262
$S_{0.8}Se_{1.2}Ta$	3.9	HF			1262
$SSeTa$ (See Table 3)					
SSn				1.28	011
S_2SnTa	2.96-2.84		TET		1150#
S_2Ta	0.8		HEX		1918 1192 1128 1027 797 675
S_2Ta	1.6, 1.99-1.82, ≈3.6		HEX		796# 778 1871 1128
S_2Ta	0.6-0.80 1.3-2.1 (Vapor transport)				797
S_2Ta (See Table 3)					
$S_2Ta_{1-0}Ti_{0-1}$					1992#
S_2TaW (See Table 3)					
STi				1.0	1191
S_2Ti (See Table 3)					
STi_2				1.3	084
SV_3 (Room temp. phase)				1.13	1582 711
S_2W			HEX	1.25	1918
SW_2				1.3	084

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
S_2W (See Table 3)					
SY	1.9-1.3		B1		1219
$S_4Zr_{3.6-4.5}$	4.5-2.5(Max.)		B1		1659
$S_{1.1}Zr$	4.5-2.5(Max.) 3.3(Annealed)		B1		1659
$S_{1.1}Zr(20-160 \text{ kbar})$	4-6.9				1659
S_2Zr (See Table 3)					
Sb			A7	0.152	103
Sb(III)(85, 93, 100, ~150 kbar)	3.55, 3.52, 3.53, 3.40				774 902
Sb(Prepared at 120 kbar, held at 77K)	2.6-2.7	HF			520
$Sb_{0.7}Sn_{0.3}$ ("Gun" Cooled)	2.85		CUB		1829
SbSn	1.56		B1		1542# 470
$Sb_{0.4}Sn_{0.6}$	3.8	Data given			085
$Sb_{0-0.08}Sn_{1-0.92}$	2.64-3.96 -3.89	304-345			036# 265
$Sb_{0.05}Sn_{0.95}$ (Weight fraction)	3.75	HF			1917
$Sb_{0-0.005}Sn_{1-0.995}$	$T_c^1(-0.034)$				817
Sb_xSn_{1-x}	$T_c^1(-0.040$ $-0.018)$	Data given			1618 318# 320
$Sb_{0.011}Sn_{0.989}$	3.642	301.7			1724#
SbSn(See Table 4)					
$Sb_{1-0.1}SnTe_{0-0.9}$	1.6-~1				1605
SbSnTe(See Table 4)					
$SbTa_3$	0.72-0.59		A15		1015
Sb_2Ta			MONO	0.30	1508 1584
SbTe (See Table 4)					
$SbTe_2Ti$			RHOMB	0.015	1139
Sb_2Ti			C16	0.07	1377 1583
$SbTi_3$	5.47, 5.8, 6.5		A15		1002# 173 1446
$Sb_{0.25}Ti_{0.75}$	7.2 Max.				∇1438
$Sb_{0.12-0.31}Ti_{0.88-0.69}$	2.3-5.3-4.4 (Quenched) 2.0-6.5-5.8 (Annealed)		A15		1002
$SbTi_{0-3}V_{3-0}$	6.5-0.8(Quenched) 5.3-0.8(Annealed)		A15		1002

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Sb_{0.66}Tl_{0.33}$	5.2				085 087
$Sb_{0.28}Tl_{0.72}$	5.2				111 089
$Sb_{0-0.004}Tl$	$T_c (-0.02+0.015)$				591
Sb_xTl_{1-x}	$T_c (+0.21)$		Data given		858 1878
Sb_2V			C16	0.06	1377
SbV_3	0.80		A15	1.0	578 117 142 128 1002# 270
$Sb_{0.03}V_{0.97}$	2.63		A2		514# 572#
$Sb_{0.01-0.03}V_{0.99-0.97}$	3.76-2.63		A2		514#
SbY			B1	1.02	270 411
Sb_2Zr				0.30	1504
Sb_2Zr_3	1.74				270
Sb_3Zr_5			$D8_8$	1.13	1582
Sc (P=0-160 kbar)				0.014	1994
Sc			A3	0.032	744# 660 132 234 572#
ScSe			B1	0.33	1219
ScSi ₂				1.0	025
$Sc_{0.01-0.6}V_{0.99-0.4}$	5.5-7.04-6.8	HF			1698
$Sc_{0.8}Zr_{0.2}$				Data given	744# 572#
$Sc_{0.5}Zr_{0.5}$				0.022	744# 572#
$Sc_{0.4}Zr_{0.6}$				0.04	744#
$Sc_{0.25}Zr_{0.75}$				Data given	744# 572#
$Sc_{0.2-0.1}Zr_{0.8-0.9}$				0.036	744# 572#
$Sc_{0.07}Zr_{0.93}$	0.08-0.04				744#
$Sc_{0.05}Zr_{0.95}$	0.11-0.08				744# 572#
$Sc_{0.01}Zr_{0.99}$	0.32-0.25, 0.17-0.12				744
Se			A8	1.26	273
Se(II)(P= \sim 130 kbar)	6.75, 6.95				547
Se_4Nb_3	1.61				711
Se_2Ta (2s type)	0.13-0.15, 0.2				797 796# 1027
Se_2Ta (3s type)	0.16-0.22				797
Se_2Ta (See Table 3)					
SeTh			B1	1.13	1582

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Se_{1.05}Ti$			$B8_1$	1.13	1582
Se_8Ti_5			Data given	1.13	1582
Se_2V				1.0	675
Se_2V_{1+x}				0.05	797
Se_2W (See Table 3)					
Se_4Y_3			ORTHO	0.35	1965# 1370#
SeY	2.5-2.3		$B1$		1219
Se_4Zr_3			RHOMB	1.13	1582
Si			$A4$	0.073	103 333
Si			CUB	0.33	303 305
Si (P-120-130 kbar)	0.7, 7.1				540 1068#
$Si_{1-0}Sn_{0-1}V_3$	16.5-<3.8-3.8 17.1-6		$A15$		1369 1914
$Si_{1-0.75}Sn_{0-0.25}V_3$	17-11		$A15$		1983
Si_3Sr_2	~ 0.55		C_c		961
Si_2Sr			CUB	0.32	961
Si_2Ta				1.20	010 333 042
$Si_{0.4}Ta_{0.6}$				1.20	010
$Si_{0.28}Ta_{0.72}$				1.20	010
$Si_{0.16}Ta_{0.84}$				1.20	010
$Si_{0.35}Ta_{0.65}$			$C16$	010	1377
$SiTa_3$			TET		1958
$Si_2Th(\alpha)$	3.16		C_c		010 042 474
$Si_2Th(\beta)$	2.41		$C32$		010 474
Si_2Th_3			TET	0.1	927 010
Si_2Ti			$C54$	1.20	010 042 522
$SiTi$				1.20	010 042
Si_3Ti_5			$D8_8$	1.20	010 042 522
$SiTi_{0.15}V_{2.85}$	14.55				1976
Si_3U			$L1_2$	1.3	1677#
Si_2U_3			TET	0.1	927
Si_2U			C_c	0.35	270
SiU_3			TET	1.10	021
Si_2V				1.20	010
$Si_{0.4}V_{0.6}$				1.20	010
Si_2V_5			TET	0.35	270

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Si}_{0.38-0}\text{V}_{0.62-1}$	12.5-16.3-5, 16.7 Max. (As cast) 14-16.6-7, 16.95 Max. (Annealed)				479 1466 1059
$\text{Si}_{0.3}\text{V}_{0.7}$	16.95		A15		707
$\text{Si}_{0.279-0.0036}\text{V}_{0.721-0.996}$	17.2-5.04		A15		1521 1469#
$\text{Si}_{0.263}\text{V}_{0.737}$	15.8		A15		32
$\text{Si}_{0.25}\text{V}_{0.75}$	17.1		A15		010 042 447 474 578 1945
$\text{Si}_{0.25}\text{V}_{0.75}$	17.0		A15		707 323 010
$\text{Si}_{0.25}\text{V}_{0.75}$	16.95-16.9	HF	A15		1073 645 1064 1164 310 1110 1075 877
$\text{Si}_{0.25}\text{V}_{0.75}$	16.86-16.8	HF	A15		880# 1013 1446 1013 1446 787 1101 010 1315# 316
$\text{Si}_{0.25}\text{V}_{0.75}$	16.65-14.5		A15		707 1369 890 1217# 1066 572# 545 465# 447 317 128 042
$\text{Si}_{0.25}\text{V}_{0.75}$ (P=0-~18 kbar)	16.6-17.3		A15		1933 1342 094 1945 1013 1079
$\text{Si}_{0.25}\text{V}_{0.75}$ (1000- 10^5 Å)	14.85-16.95	HF	A15		∇716 ∇460 ∇1410
$\text{Si}_{\sim 0.2}\text{V}_{\sim 0.7}$ (with Al, B, Be, C, Ce, Cr, La, Mn, O, or Re)	16.6-<14		A15		323
$\text{Si}_{0.25}\text{V}_{0.65}$ (Ti, Zr, Nb, Mo, Cr or Ru) _{0.1}					042 010
$\text{Si}_{0.15}\text{V}_{0.75}$ (Al, B, C or Ge) _{0.1}					042 010
$\text{Si}_{0.206}\text{V}_{0.794}$	14.5		A15		323
$\text{Si}_{0.2}\text{V}_{0.8}$	7.51		A15		707
$\text{Si}_{0.245-0.205}\text{V}_{0.755-0.795}$	16-8.5		A15		1286
$\text{Si}_{0.22}\text{V}_{0.78}$	14.38		A15		144
$\text{Si}_{0.05-0}\text{V}_{0.95-1}$	2.95-5.2				1890#
Si_2W				1.20	010 042
$\text{Si}_{0.4}\text{W}_{0.6}$	2.84				010 042 474
Si_2Y			C32	0.35	025 270
$\text{Si}_{0.665}\text{Y}_{0.335}$			C_c	0.1	808# 676# 572#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
SiY				1.15	711
Si ₂ Zr			C49	1.02	270 010 042
SiZr				1.20	010
Si _{0.45} Zr _{0.55}				1.20	010
Si ₂ Zr ₃			TET	0.1	927 010
Si ₃ Zr ₅			D8 _g	1.1	262
SiZr ₂			C16	0.06	1377
Si _{0.2} Zr _{0.8}				1.20	010
Sm			RHOMB	0.37	291
Sn			A4	0.1	363 104 108
Sn	3.722	305.5	A5		579# 580 785 749# 814 804 1153 1724# 539 206 267 318 024 001# 180 320 345 580# 1267 1043 329 205 180 104 108 318 361 405
Sn(II)(P=125, 160 kbar)	5.2, 4.85				785
Sn II		400(240 kbar) 375 (270 kbar)			785
Sr (III)(P=113 kbar)	5.30				780
Sn(P=0-32 kbar)	Data given	306-200			829
Sn(In porous media, 31Å, 39Å)	4.936, 4.248	HF			1642
Sn(Whiskers, 10,000-30,000Å)	3.562-3.765				1448 1546
Sn(Whiskers, 1% elastic strain)	3.5-4.0	350-390			1335
Sn(Whiskers, 1.7% strain)	T_c (+0.45)				974
Sn(650-2000Å), grain size, 100-600Å)	2.84-4.66	HF			▽1967 ▽596 ▽1062 ▽723 ▽1645 ▽1229
Sn(850, 1580, 3420Å)	3.794, 3.847, 3.840				▽862
Sn(Deposited at 4.2K)	3.7-4.44	HF			▽1877
Sn(Deposited at 2K)	4.5 3.6(Annealed)				▽1218
Sn(<~200Å)	~0 Max.				▽837
Sn(~15-40Å)	4.2-5.9-4.5				▽1259
Sn(5400 and 8700A, 10.400Å)	3.88, 3.90				▽1268

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Sn(Other thin film studies)					▽296 ▽373 ▽379 ▽371 ▽516 ▽532 ▽734 ▽602 ▽757 ▽750 ▽1069 ▽366 ▽392 ▽294 ▽1516 ▽347 ▽332 ▽294
SnTa ₃ (highly ordered)	8.35, 7	HF	A15		581 1462
SnTa ₃ (low order)	6.2	HF	A15		581
SnTa ₃	5.6-6.4	HF	A15		1446 1362 473 185 139 124 034
Sn _{0.26-0.1} Ta _{0.74-0.9}	7.2-<4.2				581
Sn _{0.174-0.104} Ta _{0.826-0.896}	6.5-<4.2				581
Sn _{0.25} Ta _{0.25} V _{0.5}	2.8		A15		185 473
Sn _{0.25} Ta _{0.5} V _{0.25}	3.7		A15		473 185
Sn _{0.35} Te _{0.65} ("Gun" cooled)	1.9		CUB		1829 813#
Sn _{0.25} Te _{0.75} ("Gun" cooled)	1.7		CUB		1829
SnTe(See Table 4)					
Sn ₃ Th	3.33		L1 ₂		715
SnTi ₃			DO ₁₉	1.02	270
Sn _{1-0.997} Tl _{0-0.003}	T _c ' (-0.052)				1032
Sn ₁₋₀ Tl ₀₋₁	3.72-5.6-3.61- 5.2-2.37				088 089 1108
Sn _{0.65} Tl _{0.35} (Prepared at 15 kbar, 170-305C)	6-7.1	HF			900
Sn _{0.1} Tl _{0.9} (Deposited 0.3K)	3.50 2.77(Annealed)				▽1900
Sn ₃ U			L1 ₂	1.3	1677#
Sn ₃ V ₂				1.15	711
SnV ₃	3.8, 3.050		A15		1369 1446 473 185
SnV ₃	7.0		A15		128 117 124
Sn _{0.057-0.02} V _{0.943-0.98}	~1.6-2.87				514# 572#
Sn _{0.025-0} V _{0.975-1}	5.20-3.16				1890#
Sn ₃ Y ₅				1.4	863 711
SnY ₂				1.15	711
Sn _{1-x} Zn	T _c ' (-0.037)	Data given			1618 318#
Sn _{0.91} Zn _{0.09} (Laminar period study)	3.668-3.722				726

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Sn}_{1-0}\text{Zn}_{0-1}$	Data given				081 105 070
SnZr_4	0.92-0.79		A15		1015 572#
Sr			A1	0.017	270 1214
Sr(P=0~150 kbar)				1.2	781
Sr(Deposited 4.2K, 100Å)	3.6	HF			∇710
Ta	4.463	931	A2		713# 188# 176# 180 324 342 1513 1209 505 169 1781 244 180 001 024 1816 911 324 525 572# 1267 1248 342 1230 465# 371 375
Ta(99.95%)		HF			519 1393
Ta(215-110, 000Å)	<1.7-4.25	HF			∇1249 ∇719 ∇529 ∇505 ∇1787 ∇393
Ta(9000A, 1, 000A)	4.45, 4.51				∇1199
Ta(200A, annealed 325C)	3.06		A1		∇1787
Ta(0.1-1% Xe)	1.48		A2		∇1526
TaTe_2				0.05	797 796# 675
$\text{Ta}_{1-0.3}\text{Ti}_{0-0.7}$	4.48-8.8-7.2	HF	A2		1209 1797 441 522 466 299
$\text{Ta}_{1-0.7}\text{Ti}_{0-0.3}$	4.3-6.5	HF			252
$\text{Ta}_{0.9-0.7}\text{Ti}_{0.1-0.3}$		HF			289 299 321 429
$\text{Ta}_{0.68-0.46}\text{Ti}_{0.32-0.54}$	8.02-8.26 (Annealed) 8.28-9.05 (Cold worked)				1209 252
$\text{Ta}_{0.52}\text{Ti}_{0.48}$	7.86	HF			874 1391 1797
$\text{Ta}_{0.05, 0.025}\text{Ti}_{0.95, 0.975}$	2.9-1.3		HEX		499
$\text{Ta}_{0.63}\text{Ti}_{0.30}\text{Zr}_{0.07}$		HF			1391
$\text{Ta}_{1-0}\text{V}_{0-1}$	4.33-2.73- 5.17	769-573- 1336			1307# 441
$\text{Ta}_{0.75}\text{V}_{0.25}$	2.65		A2		572#
$\text{Ta}_{0.5}\text{V}_{0.5}$	2.35		A2		572#
TaV_2				1.5	1400#
$\text{Ta}_{0.25}\text{V}_{0.75}$	2.80		A2		572#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Ta _{0.06-0} V _{0.94-1}	4.46-5.24				1704# 587# 572#
Ta _{0.5-0} V _{1.5-2} Zr	8.8-9.3-8.5				1323
Ta _{0.05} V ₂ Zr _{0.95}	8.9				1652
Ta _{1-0.8} W _{0-0.2}	4.4-1.2		CUB		253 441 572#
Ta _{0.96-0.78} W _{0.04-0.22}	3.30-1.36				1816
Ta ₁₋₀ W ₀₋₁ (Deposited 4.2K, amorphous)	1.6-3.5				∇1325
TaXe _x	1.48				∇1441
Ta _{0.96} Zr _{0.04} (Various anneals)	5.7-5.0				1790
Ta _{0.2-0} Zr _{0.8-1}	5.6-0.8 (Discontinuity at Ta _{0.15})				1969
Ta _{0.15} Zr _{0.85}	4.3 (quenched) 3.25 (Annealed)				1969
Ta _{1-0.9} Zr _{0-0.1}		HF			441
Tb			A3	0.37	291
Tc (RRR~100)	7.73, 7.77	1410, HF	A3		1161# 1138 1147 1537 1161 712 1656 556
Tc	7.46-9.3 11.2	HF			1180# 633 230 202 001 1336 615 102 163
Tc (0-15 kbar)	8.0-7.8				836
Tc (>150-1600 Å)	4.6-7.70		A3		∇1685
Tc (<150 Å)	4.8-7		A1		∇1685
Tc _{0.44} Th _{0.56}	5.3		C14		1149
Tc _{0.95} V _{0.05}	10.99	HF			1138
Tc _{0.9} V _{0.1}	11.32	HF			1138
Tc _{0.8} V _{0.2}	11.24	HF			1138
Tc _{0.75} V _{0.25}	11.07	HF			1138
Tc _{0.7} V _{0.3} (Annealing variations)	7-8.3 7-6.6	HF			1791 1138
Tc _{0.7} V _{0.3} (Quick cool)	6.41	HF			1138
Tc _{0.65} V _{0.35}	4.49	HF			1138
Tc _{0.6} V _{0.4}	4.17				1138
Tc _{0.5-0.2} V _{0.5-0.8}				1.39	1138
Tc _{0.1} V _{0.9}	1.50				1138
Tc _{1-0.15} W _{0-0.85}	8.35-10.4-3.3				1337

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Tc_{\sim 0.9}W_{\sim 0.1}$	10.4				1337
$Tc_{0.6,0.5}W_{0.4,0.5}$	7.88, 7.52	HF			524
$Tc_{0.4-0.1}W_{0.6-0.9}$	7.18-1.25	HF	CUB		524
$Tc_{0.05}W_{0.95}$			CUB	~ 0.8	524
Tc_6Zr	9.7		A12		202
Tc_2Zr	7.6		C14		1149
Te			A8	0.05	1277 273
Te(II)(P=40-70 kbar)	2.5-3.9				1688
Te(II)	2.05(43 kbar) 3.4(50 kbar)	HF			909 1172 510
Te(III)(P=68-80 kbar)	4.28-4.15				909 1638
Te(IV)(P=80-100 kbar)	4.3-3.3				1688 909
Te(P=100-260 kbar)	3.3-2.8				1688
Te (See Table 4)					
TeTh			B2	1.13	1582
Te_2Ti				1.1	1583
Te_4Ti_3				1.13	1582
$TeTi$			$B8_1$	1.13	1582
Te_4Ti_5				1.13	1582
Te_3Ti_5	2.078, 2.14- 2.23	HF			848 1440# 849
$Te_{0.1}Ti_{0.9}$ (Deposited 4K, $\sim 6000\text{\AA}$)	4.2 ~ 2.5 (after anneal)				∇ 1932
Te_3Ti_5 (See Table 4)					
Te_2V_{1+x}				0.05	797 675
Te_3V_2 (Room temp. phase)			MONO	1.13	1582
Te_2W (Room temp. phase)				0.3	1584
TeY	1.5-2.05		B1	1.02	1219 270
Te_3Zr				1.13	1582
Th(RRR=1200)	1.390	159.1 (Ref. 1291)	A1		1123# 1571# 1561 1563 1488 1291 802# 001 151 135 504 1267 791 1182# 1361#
Th(P=60- \sim 160 kbar)	0.7-0.64				1488
$ThTi_3$	0.87		$L1_2$		715
$Th_{1-0.7}Tm_{0-0.3}$	1.37-0.67				768
$Th_{1-x}U_x$	1.36-0.07				951 1559

TABLE 2 (Cont'd). Properties of Superconductive Materials

TAB

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.	
$\text{Th}_{1-0.998}\text{U}_{0-0.002}$	1.360-0.304	137.1-77.0			1563# 1226	Ti_0
$\text{ThU}_{0.00075}$	0.785				1227#	Ti_0
$\text{ThU}_{0-0.0012}$ (P=0-~22 kbar)	1.36-0.55 (Lowers T_c)				1519 1227#	Ti_Δ
$\text{Th}_{1-0.65}\text{Y}_{0-0.35}$	1.28-1.64-1.53		A1		1182# 1361#	Ti_c
$\text{Th}_{0.55-0}\text{Y}_{0.45-1}$	1.2-1.8				234	Ti_c
$\text{Th}_{0.5}\text{Y}_{0.5}$	1.25				234	Ti_c
$\text{Th}_{0.4-0}\text{Y}_{0.6-1}$			HEX	1.2	1361 1182#	Ti_c
Th_2Zn	0.67		C16		1377	Ti_i
Ti	0.40	56	A3		253 490# 001 192 166 167 168 1002# 759# 1691 1071# 1061# 572# 554# 477# 130	Ti_i
Ti	2-3		A2		1691	
Ti(w)(120 kbar, 300K, low oxygen)			HEX	0.06	1691 097 1712	
Ti(99.92%)	0.14	HF			523 688	
Ti(Deposited 100-400°C, 100-7000Å)	1.3 Max.			1.3	∇1273 619	
Ti(0.1-1% Xe)	2.52		A3		∇1526	
Ti_4Tl			A15	0.35	980	
TiU_2			C32	1.06	021 522	
$\text{Ti}_{1-0.85}\text{V}_{0-0.15}$	0.6-4.4 0.6-6.6(Annealed)		HEX		301 274	
$\text{Ti}_{0.975}\text{V}_{0.025}$	1.4		HEX		499	
$\text{Ti}_{0.96}\text{V}_{0.04}$	2.7				477# 554# 572#	
$\text{Ti}_{0.9}\text{V}_{0.1}$	6.3				253	
$\text{Ti}_{0.85-0}\text{V}_{0.15-1}$	7.5-2.3	HF	CUB		253 572# 130 330# 838 218 289 399	
$\text{Ti}_{0.775}\text{V}_{0.225}$	4.7	1100, HF			584 616	
$\text{Ti}_{0.76}\text{V}_{0.24}$	4.382 (Quenched) 3.875 (Annealed) 5.089(Annealed)				1861	
$\text{Ti}_{0.75}\text{V}_{0.25}$	5.3	1940, HF			584 616	
$\text{Ti}_{0.7}\text{V}_{0.3}$	6.14				514#	
$\text{Ti}_{0.615}\text{V}_{0.385}$	7.07	HF			600	

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Ti_{0.6}V_{0.4}$	7.0	HF			878
$Ti_{0.516}V_{0.484}$	7.20	HF			600
TiV	6.09	HF			466 455 522 195 130
$Ti_{0.5-0}V_{0.5-1}$	6.7-5.3	1250-1050			314
$Ti_{0.42}V_{0.58}$	7.52, 7.49	HF			874 600
$Ti_{0.4-0}V_{0.6-1}$	7.5-5.2	HF	A2		441#
$Ti_{0.12}V_{0.88}$		HF			688
$Ti_{0.09-0.03}V_{0.91-0.97}$		HF			688
$Ti_{0.013}V_{0.987}$	12.8				∇ 1956
$Ti_{0-0.8}V_{1-0.2}$ ($\sim 3000\text{\AA}$)	5.3-12.8--6				∇ 1956
$Ti_{0.33}V_{0.33}Zr_{0.33}$	6.6 Max.				∇ 1438
$Ti_{0.17}V_{0.5}Zr_{0.33}$	7.6 Max.				∇ 1438
$TiXe_x$	2.52				∇ 1441
$TiZn_2$			C14	1.02	270
$Ti_{0.8}Zr_{0.2}$			HEX	1.0	253 572#
$Ti_{0.66}Zr_{0.33}$	1.36		HEX		253
$Ti_{0.5}Zr_{0.5}$	1.23(Annealed) 2.0(quenched)				477
$Ti_{0.5}Zr_{0.5}$	1.65, 1.60, 1.57				1061# 759# 253 572#
$Ti_{0.33}Zr_{0.66}$	1.35		HEX		253
$Ti_{0.25}Zr_{0.75}$					572#
$Ti_{0.18}Zr_{0.82}$	1.03		HEX		253
$Ti_{0.1}Zr_{0.9}$			HEX	1.0	253
Tl(α)	2.38	176.5	A3		527# 1378 1145 760 001# 024 1155 1267 1308 1923# 1156
Tl(β)	2.332	181	A2		1378
Tl(In porous media, ~ 100 - ~ 32 - $\sim 22\text{\AA}$ pores)	$T_c(0, +0.21, +$ 0.17				1614
Tl(In porous media, 32, 58 \AA)	2.649, 2.612	HF			1642
Tl(P=0-27 kbar)	$T_c(+0.02-0.25)$				998
Tl(35 kbar)	1.95		A3		641#
Tl(35 kbar)	1.45		A1		641#
Tl(25-48 kbar)	1.38-1.5				641 ∇ 1900

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	T_n (K)	Refs.
Tl(Deposited 0.3K, 100-500Å)	2.96 2.40 (after 300-330K)			∇1900
Tl(Deposited 4K, 2900Å)	2.33-2.9	HF		∇1925 ∇1932 ∇1877 ∇220 ∇376 ∇1069
Tl(In Ne, Xe, 150Å, deposited ~80K)	2.6			∇1069 ∇1229
Tl(<100Å at 105K)	2.64 2.72(Oxidized)			∇1062
Tl _{1-0.7} Sb _{0-0.3}	2.905-~5.3- 4.198	HF		1378
TlV ₃			A15	4.2 825
Tl ₃ Y	1.52		L1 ₂	715
Tl _{0.9988} Zn _{0.0012}	T_c (+~0.002)	Data given		1095 1108
Tl _{0.9} Zn _{0.1} (Deposited 0.3K)	3.63 2.60(after 300-330K)			∇1900
TlZr ₄			A15	0.35 980
Tm			A3	0.35 270
U(α)			A20	0.1 1487 802# 1152 724 701 703 702 698 504 177# 027 157 001 021 1252 1779 629
U(10 kbar)	2.1, 2.4			1487 1495 1416 879 724 570
U(10, 40, 70, 85 kbar)	2.1, 1.3, 0.8, 0.4			1487 879
U(90-160 kbar)			0.35	1487
U(2, 12, 24 kbar)(α)	1, 2.4, 1.5			1495
U(1, 9 kbar)	0.2, 2.0	HF		1416
U _{0.37-0.14} Zr _{0.63-0.86}			1.00	134 021
V(RRR=430)	5.43	1408, HF	A2	1162 1719 742# 788 572# 1935 1549
V(RRR=140, 150)	5.37, 5.38	HF	A2	1639 742# 572# 525
V(RRR=33, -)	5.1-5.31	1020, HF	A2	548 1979 578 366 917# 617 001 1515 1002#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
V	4.59-5.06	1310, HF	A2		917# 024# 016 130 572# 001# 1106 548 157
V(5000Å, 11,000Å)	5.14, 6.02	HF			∇1199 ∇1444
V	1.8-4.8				∇297 ∇313
V (See Table 3)					
V(0.1-1% Xe)				1.1	∇1526 ∇1441
V(P=0-24 kbar)	5.47-~5.6				1248 727
V(RRR=285, P=0-250 kbar)	5.5-7.15				1690
VZr ₃			L1 ₂	1.02	270
V _{0.1-0.9} Zr _{0.9-0.1}	6.5-8.3-7.0	HF			889 1981
V _{0.7} Zr _{0.3}	8.6		C15		1189
V ₂ Zr	8.5, 8.2		ORTHO		1323 1400# 1306
V ₂ Zr	8.8, 9	HF	C15		173 1189 1981
V _{0.6} Zr _{0.4}	8.3				889
V _{0.4} Zr _{0.6}	~7.8	HF			889 678
V _{0.09-0.06} Zr _{0.91-0.94}	7.0-<4.2	HF			1306
W(RRR=57,000)	0.0154	1.15	A2		887# 1494# 840# 1830 882# 493# 526 572# 179# 103 033
W(~2000Å, ~20-310Å) (Function of oxygen content)	3.1-3.3 1.7-4.1 <1.0-3.2	HF	A15		∇671 ∇1397 ∇1042 ∇921 ∇541 ∇503
W(with 0.1-1% Ne, Ar, Kr, Xe)	3.02, 3.7, 4.2, 5.5		A2		∇1526 ∇1441
W ₂ Zr			C15	0.033	1988 1586 956 173 956
W _{0.04-0.8} Zr _{0.96-0.2}	2.9-3.9-2.0 (Sharp dip of T_c at W _{0.669})		CUB		956
Xe _x Y				1.1	∇1441
Xe _x Zr	4.0				∇1441
Y			A3	0.005	1367 1361# 1350# 1182# 781 660 472 023 132 234 972 812# 808# 676# 572# 465# 234 179

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Nb_3Te ($P > 59$ kbar, temp. 1330-1430C)			A15	2.5	1585
Nb_5Te_4				1.1	1583
Nb_3Te_4	1.49				711 1582
$NbTe_2$	0.6-0.66 0.5-0.74(Vapor transport)		HEX		796# 797 992 675
$NbTe_4$				0.025	1584
$Nb_{1.0-0.25}Ti_{0-0.75}$	9.22-10.02-7.6 9.2-9.7 7.2		CUB		901 253 885 441 1700# 1873 399 289 290 218 439 466 441 522 390
$Nb_{0.95}Ti_{0.05}$	9.41, 9.2	HF			1241 1611 1371# 1216
$Nb_{0.9}Ti_{0.1}$	9.61	HF			1241 1371# 289 1611 1754
$Nb_{0.85-0.25}Ti_{0.15-0.75}$	9.7-9.75-7.6				1745 1391
$Nb_{0.75}Ti_{0.25}$	10.02, 9.93, 9.8	HF			885 1241 1371#
$Nb_{0.7}Ti_{0.3}$	10.1 Max.	HF			1398 310 455
$Nb_{0.6}Ti_{0.4}$	9.2, 9.8 Max.	HF			592 725
$Nb_{0.55}Ti_{0.45}$	9.4	HF			830 818 321
$Nb_{0.5}Ti_{0.5}$	9.5, 10.3	HF			841 253 968
$Nb_{0.44}Ti_{0.56}$	8.99	HF			874 725 830 1391 1409
$Nb_{0.33}Ti_{0.67}$ (Various anneals)	8.4-6.5, 9.3				1803 841 968 991 253
$Nb_{0.36-0.02}Ti_{0.64-0.98}$	7.5-1.7				253
$Nb_{0.25}Ti_{0.75}$	6.3, 5.8-7.4				1800 253 815 999#
$Nb_{0.22}Ti_{0.8}$	6.15-6.6(as cast) 6.5, 6.9-7.8	HF			965 991 993 1414 1575 1442 682
$Nb_{0.15-0}Ti_{0.85-1}$	5.5-0.6(quenched)		A3		301 274 1638 1216 572# 554# 477#
$Nb_{0.025}Ti_{0.975}$	1.5		HEX		499
Nb_xTi_{1-x} (On hot substrate)	9-10.3-~5				∇ 1344
$Nb_xTi_yV_z$	3.8->10	HF	A2(where noted)		1399 1409
$Nb_{0.55}Ti_{0.45}V_{<0.03}$	>10				1399

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Nb _{0.5} Ti _{0.3} V _{0.2}	7.8	HF			1792
Nb _{0.5} Ti _{0.3} V _{0.2} (after 3.7x 10 ¹⁹ n ⁺ /cm ²)	7.5	HF			1792
Nb _{0.5} Ti _{0.2} V _{0.3}	8.5 8.0(Irradiated)				1792
Nb _{0.4} Ti _{0.4} V _{0.2}	7.6 7.35(Irradiated)				1792
Nb _{0.1} Ti _{0.4} V _{0.5}	5.3 5.05(Irradiated)				1792
Nb _{0.35} Ti _{0.64} W _{0.01}		HF			1391
Nb _x Ti _y Zr _z	Data given	HF			830 1876
Nb _{0.8-0.55} Ti _{0.1-0.4} Zr _{0.01-0.13}		HF			1391 1463
Nb _{0.75} Ti _{0.15} Zr _{0.1}	9.7	HF			830
Nb _{0.7-0.2} Ti _{0-0.8} Zr _{0.8-0}	6.2-12				1738
Nb _{0.69-0.52} Ti _{0.14-0.33} Zr _{<0.1-0.32}	9.1-9.8	HF			1391 1438 830
Nb _{0.5} Ti _{0.1} Zr _{0.4}	10.3	HF			1789 1391
Nb _{0.48-0.41} Ti _{0.48-0.15} Zr _{0.05-0.44}	8.6-8.9	HF			830
Nb _{0.35} Ti _{0.15} Zr _{0.5}	8.6, 9.3	HF			830
Nb _{0.35} Ti _{0.6} Zr _{0.05}	8.6	HF			1789 965
Nb _{0.35} Ti _{0.45} Zr _{0.20}		HF			1391
Nb _{0.21} Ti _{0.61} Zr _{0.18}	6.53-7.21				965
Nb _{0.19} Ti _{0.74} Zr _{0.07}	6.75-9.1(as cast)				965 1205
NbTi(Sputtered)			A15(Weak diffraction lines)	9	1825 311
Nb _x U _{1-x} (α)	0.9-1.0				134 027
Nb _{0.18-0.22} U _{0.82-0.78} (γ)	2.009-2.025		CUB		1252 134 027 177 466
Nb _{0.222} U _{0.778}	1.98	HF	A2		349 572#
Nb _{0.26} U _{0.74} (γ)	1.85				177
Nb ₀₋₁ V ₁₋₀	5.19-3.97-9.29	HF	A2		1307 1979 1623# 1875 253 441 027 572#
Nb ₀₋₁ V ₁₋₀	5.17-4.03- 9.18	1336-957- 1890			1307#
Nb _x V _y Zr _z	6-11.5				1889
Nb _{0-0.5} V _{2-1.5} Zr	8.5-9.7-9.2				1323

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Nb_{0.03-0.32}V_{0.64-0.46}$ $Zr_{0.32-0.23}$	9.65-4.34-5.42		C15		1707 1652
$Nb_{0.5}V_{1.5}Zr$	4.30		C14		1707
$Nb_{0-0.31}V_{0.67-0.36}Zr_{0.33}$	9.64-4.36-5.45		C15		1707
$Nb_{1-0.65}W_{0-0.35}$	9.2-1.5				253 441
$Nb_{0.6-0}W_{0.4-1}$				1.0	253 441
$Nb_{1-0.8}W_{0-0.2}$	Data given	HF	A2		441
$Nb_{1-0.98}Y_{0-0.02}$	9.25-9.38	HF			1771
$NbZn_3$			$L1_2$	1.02	270 311
$Nb_{1-0}Zr_{0-1}$ (u and 8)	9.2-10.7-0.5	HF			1806 465# 321 383 455 218 289 399 268 686
$Nb_{0-0.05}Zr_{1-0.95}$ (a)	0.7-4		A3(358)		1806 847 358
$Nb_{1-0.75}Zr_{0-0.25}$	9.2-10.98-8.3				1352# 885 441 253 1984
$Nb_{0.5-0.1}Zr_{0.5-0.9}$	10.2-6.4				1579
$Nb_{0.0125-0.06}Zr_{0.99-0.94}$ (α plus β precipitate)	3.2-10.0				847
$Nb_{0.06-0.88}Zr_{0.94-0.12}$	10-10.5 Max.	HF			847
$Nb_{0.9-0.6}Zr_{0.1-0.4}$ (weight fractions, practical starting elements)	10.2-11				1736
$Nb_{0.85}Zr_{0.15}$	10.8				1352# 572#
$Nb_{0.75}Zr_{0.25}$	10.75, 11.0	HF	A2		1157# 1387 1509 975 253 690 597 572# 429 368 406 310
$Nb_{0.7-0.66}Zr_{0.3-0.34}$	10.55-10.98	HF			1313 885 597 429 1594 1509 037
$Nb_{0.68}Zr_{0.32}$	10.05 10.55(after draw-down)				1313
$Nb_{0.6}Zr_{0.4}$ (Various anneals)	10.58-10.05- 10.75				1333
$Nb_{0.5}Zr_{0.5}$	10.75	HF			1301 1081 1818# 739 572# 429 441
$Nb_{0.5}Zr_{0.5}$ (0-3.8 kbar)	$T_c^!$ (+0.04)				970

N
N

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Nb _{0.38} Zr _{0.62}	8.7				1157# 572#
Nb _{0.25} Zr _{0.75}	10.45 Max.	HF			971 429
Nb _{0.2} Zr _{0.8}	8.0(Quenched) 8.5(Annealed)	HF			1579 971 991
Nb _{0.15} Zr _{0.85} (Various anneals)	6.2-10.2				1806 1579
Nb _{0.13} Zr _{0.87}	6.42(quenched)				1579
Nb _{0.1} Zr _{0.9} (Various anneals)	4-7.6				1806
Nb _{0.04} Zr _{0.96} (Various anneals)	4.9-8				1740
NbZr(Deposit 350, 630C, 3000-4000Å)	1.6-9.3	HF			∇1275
Nb _{0.2} Zr _{0.8}	9.2 Max.				∇1438
Nb _x Zr _{1-x} (Deposit, hot substrate)	9~11.5-6				∇1344
Nb ₁₋₀ Zr ₀₋₁ (Deposit 4.2K, amorphous)	6-3				∇1325
Nd(α)			A3'	0.25	023
Nd ₂ S ₃			CUB	1.68	558
NdSi ₂			C _c	1.0	025
Ni				0.35	270 272 572#
NiO				1.28	011
Ni ₃ P			DO _e	1.01	217 601
Ni ₂ P			C22	1.01	601 217
NiP				1.57	427
Ni _{0.05} Pd _{0.95} Te ₂	1.40		C6		301
Ni _{0.1} Pd _{0.9} Te ₂	1.30		C6		301
Ni _{0.05} Rh _{0.04} Ti _{0.91}	3.5				1060
Ni ₀₋₁ Rh ₁₋₀ Zr ₂	11.3-1.7		C16		1476
Ni _x Ru	0.45-0.2		HEX		1570
NiS				1.28	011 084
NiSb			B8 ₁	0.35	270 037 002
NiSb ₃				1.45	427
Ni _{0.12, 0.16} Sb _{0.88, 0.84} ("Gun" cooled)	1.5, 1.4		CUB, plus		1829
NiSi ₂			C1	1.00	037
NiSi				1.90	119
Ni _{0.93} Sn _{0.07}				1.26	084
NiT _a ₂	0.90		C16		1377
NiTe			B8 ₁	1.0	037

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
NiTe ₂			C6	1.2	301
Ni ₃ Th ₇	1.98		D10 ₂		173
NiTi			A2	1.02	270
NiU ₆	0.86, 0.41, 0.33		D2 _c		1866 920 021
NiU				1.12	021
Ni _{0-0.03} V _{1-0.97}	5.3-2.1		CUB		314 572#
Ni _{0.22} V _{0.78}	0.3, 0.35		A15 (~80%)		707 948
Ni _{0.175-0.225} V _{0.825-0.775}	0.3-0.78		A15, plus		707 948 1023
Ni _{0.5} V _{0.16} Zr _{0.34}	0.43		C15		270
Ni _{0-~400 ppm} Zn	T_c (~0.1)				598
NiZr ₂	1.6		C16		1355 1377 1476 914 1478 032
Ni _{0.1} Zr _{0.9}	1.50		HEX		032
Np			ORTHO	0.4	581 495 226 1669
O ₂ Mo				1.28	011
O ₂ Mo ₅				1.28	119
ONb	1.39		B1		1542#
O ₃ NbSr (See Table 4)					
O ₂ Pb				1.02	181 119
O _{0.105} Pd _{0.285} Zr _{0.61}	2.09		E9 ₃		270
O ₃ Rb _{0.33-0.20} W	2.15-2.9- <1.2-4.35	HF	HEX		1882
O ₃ Rb _{~0.26-~0.33} W	1.6-2.0, 2.9	HF	HEX		1882 1967# 1943# 1942# 1186 1080 500
O ₃ Rb _{0.27-0.29} W	1.98				500
O ₃ Rb _{~0.33} W(acid etched)	2.84-2.36, 4.75, 7.7	HF			1883 1943 1080
O ₂ Re				1.3	1212
OReTi	5.74				181
O ₃ Rh ₂				1.28	011
O _{0.14} Rh _{0.287} Ti _{0.573}	3.37		E9 ₃		270
O _{0.105} Rh _{0.285} Zr _{0.61}	11.8		E9 ₃		270
O ₃ Sn ₂				1.30	119
O ₃ Sn	3.81(?)				084
O ₃ Sn _{0.21, 0.24} W			HEX	1.3	1379

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$O_3Sn_{0.19}W$			TET	1.3	1379
O_3SrTi (See Table 4)					
$O_3Sr_{0.08}W$	2.0-4.0		HEX		644
$O_{0.006-0.028}Ta_{0.944-0.972}$	4.185-3.48		A2		248
$O Ti$	0.60		B1		1542# 481 010
$O Ti$	1.28, 0.7		MONO		1472
$O_{0.86-1.25}Ti$	0.66-1.06		B1		1472
$O_{0.85-1.25}Ti$ (Quenched from 50-60 kbar)	<1.3-2.0				1272
$O_{0.85-1.20}Ti$	0.05-1-0.08				1450# 1272
$O_{1.07}Ti$	1.0 Max.		B1		1450
$O_{1-x}Ti_{1-x}$ (Vacancies) _x (0-90 kbar)	0.6-2.3		B1		835
O_3Ti_2				1.30	119
O_3Ti_2				1.28	011 084
$O_3Ti_{0.30}W$	2.00-2.14		HEX		644
O_2U				1.28	011
O_3V_2				1.28	011
$O_{0.8-1.1}V$			B1	0.07	010 1450
$O_{0.03}V_{0.97}$	1.8-2.4		CUB		248 441
$O V_3Zr_3$	7.5		$E9_3$		270
O_3W				0.3	575
O_2W				0.3	575 069 119
$O W_3$	3.35, 1.1		A15		∇ 503
$O W_3$				0.012	∇ 503
Os	0.66		A3		569 239 972# 001 029 132 446 302# 572# 963# 236
OsP				1.1	1583
$Os_{0-0.12}Re_{1-0.88}$	1.694-1.93-1.79				1257 952
$Os_{0-0.12}Re_{1-0.88}$ (P=0-20 kbar)	T_c (-0.043 Max.)				952
$Os_{0.058}Re_{0.942}$	1.93 Max.		HEX		1646 952
$Os_xRe_{1-2x}W_x$	T_c (+0.025)				1046
$OsReY$	2.00				171 201
$Os_{0.97}Rh_{0.03}$	0.09		HEX		1368
$Os_{0.38-0.33}Rh_{0.62-0.67}$	0.095-0.018		A1		1118
$Os_{0.2}Rh_{0.8}$				0.015	963

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Os _{0.05} Rh _{0.04} Ti _{0.91}	3.5				1060
Os ₁₋₀ Ru ₀₋₁	0.62-0.46-0.48		HEX		1646# 572#
Os ₂ Sc	4.60		C14		127
OsSi			B20	0.60	270
OsTa	1.95		A12		173
Os _{0.3} Ta _{0.7}			D8 _b	1.0	276 182
Os ₂ Th			C15	1.02	270 572#
Os ₃ Th ₇	1.51		D10 ₂		173
OsTi	0.46		B2		270 173
Os ₂ U			C15	0.37	270
Os _{0.55} V _{0.45}	5.04		A15+Os		707
Os _{0.5} V _{0.5}	5.15		A15		948#
Os _{0.29} V _{0.71}			B2	0.37	270 173
Os _{0.9} W _{0.1}			HEX	1.0	266
Os _{0.8} W _{0.2}			HEX	1.0	266
Os _{0.74} W _{0.26}	4.40		D8 _b		182
Os _{0.7-0.52} W _{0.3-0.48}	3.7-0.9		HEX		266
Os _{0.45-0.37} W _{0.55-0.63}	4.1-3.7				266
Os _{0.34} W _{0.66}	3.81		D8 _b		276
Os _{0.33-0.22} W _{0.67-0.78}	3.6-2.5		D8 _b		266
Os _{0.25} W _{0.75}	3.02-2.21				033
Os _{0.15} W _{0.85}	2.2				266
Os _{0.1} W _{0.9}	1.5(Broad)				266
Os _{0.075} W _{0.925}	0.9		CUB		266
Os _{0.05-0.025} W _{0.95-0.975}			CUB	1.0	266
Os ₂ Y	4.7		C14		1478 127 171 201
Os ₂ Zr	3.0		C14		173 1478
Os _{0.33-0.2} Zr _{0.67-0.8}	<2-4.1		CUB's		955
Os ₄ Zr ₁₁			CUB	1.2	955
Os _{0.1-0.01} Zr _{0.9-0.99}	5.20-5.6-1.5		HEX		032
Os _{0.06} Zr _{0.94}	5.6		HEX		032
P (P=170 kbar)(99.999%)	5.8	HF			786 775
P (P=220, 230, 260 kbar)	~5.6, ~5.3, ~3.6	HF			786 775
P Pb	7.8				085 089 111
P ₃ Pd ₅				1.1	262
P ₂ Pd ₅				1.1	262

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H _c (oersted)	Crystal Structure	T _n (K)	Refs.
P ₃ Pd _{3,0-3.2}	0.75-<0.35		DO ₁₁		491
P ₃ Pd ₇ (High temp. phase)	1.00		RHOMB		491
P ₃ Pd ₇ (Low temp. phase)	0.70				491
P _{0.26} Pt _{0.74}				0.35	491
P ₄ Re ₃			MONO	1.1	1583
PRe ₂			C23	1.13	1582
PRh ₂	1.3		C1	1.03	491 035
P _{0.44} Rh _{0.56} (P ₃ Rh ₄)	1.22 (2.5)		(ORTHO)		035 (1995)
PRu				0.35	491
PRu ₂				0.35	491 262
PS ₂ Ta(Prepared P=65 kbar, 1100-1300C)			ORTHO	1.25	892
P _{0.4} S _{0.6} Y			B1	0.36	1219
P _{0.2} Si _{0.8} V ₃	16.6		A15		1976
P _{0.3} Si _{0.7} V ₃	14.75		A15		1976
PSn	2.8-4.0		B1		1382
PSn			TET	1.25	1382
PSn (See Table 4)					
P ₂ Ta(PTa ₃)	(0.4)		MONO(TET)	0.035	1508 1583 (1995)
PTi			B ₁	1.13	1582
P ₂ Ti			C23	1.1	1583
PV			B8 ₁	1.01	601 217
P ₂ V			MONO	0.035	1508 1583
PV ₃				1.0	128 117
P ₂ W	<0.3(?)		MONO	0.33	1508
PW			B31	1.01	601 217
PW ₃	2.76		DO _e		601 217
P ₂ Zr(PZr ₃)	(4.5)		C23(TET)	1.1	1583 (1995)
P _{0.95} Zr(α, high temp. form)	~4.6		B1		1915#
Pa	1.4		TET		504 1936
Pa			A1	0.4	1936
Pa _{0.75} Zr _{0.25}	1.54				1936
Pb(RRR=15,000)	7.195	803.4	A1		1709# 1907 1802# 001# 150 1639 1423 380 476# 024 653 1710 1267 1250# 1906 1287

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
Pb(RRR= 5,000) (Cont'd)					666 586 430 357 322 906 1781
Pb(I)(P=0-110 kbar)	7.2-4.2				904 926 1906
Pb(II)(P=160 kbar)	3.55				780 904
Pb(II)(P=135-200 kbar)	3.6-2.9				1702
Pb(In porous media, 32Å, 58Å)	7.049, 7.150	96, 55			1642
Pb(~15-110Å)	~2-7.5				▽1259 ▽1927 ▽1894 ▽941
Pb(Deposited 10K, ~50-3000Å)	6.4-7.2, 7.26	HF			▽1680 ▽1268
Pb(Deposited 4.2K, 300K; 20-1000Å)	5.3-7.2	HF			▽1762 ▽1218 ▽672 ▽1648 ▽1403 ▽385 ▽602 ▽735 ▽752 ▽837 ▽985 ▽1124 ▽1644 ▽1739
Pb(<100Å, deposited 105K)	7.22 7.09(oxidized)				▽1062
Pb(with Mn, Gd, CuFe, CuMn, CuCo, CeAl ₂ etc.)					▽296 ▽733 ▽821 ▽598
Pb(Deposited 3K, with 10% SiO)	6.5				▽1218
Pb(Quench condensed at 0.4K)	7.03 7.16(Annealed)				▽1491 ▽1548
PbMo ₈ S ₇	11.1				1193#
Pb ₂ Pd	3.01			C16	1377 229 426
PbPd ₃			L1 ₂	0.10	1372 412
Pb ₂ Pd ₀₋₁ Rh ₁₋₀	1.4-2.0-1.7-3.0		C16		1377
Pb ₂₋₀ PdTi ₀₋₂	3.0-1.3		C16		1377
Pb _{0.8} Pt _{0.2}	2.8				229 398
PbPt	7.2-~1.5				▽756
Pb ₂ Rh	2.66		C16		229
Pb _{1.9} Rh	1.32		C16		1377
PbRh ₂				0.32	489
PbS				1.0	064 065 011 307 423
PbS ₃ Ta	3.07.3.11		TET		778#
PbS ₃ Ti			TET	0.05	778 795#
Pb _{1-0.99} Sb _{0-0.01}	T_c (+0.10)				1165
Pb _{1-0.95} Sb _{0-0.05}	T_c (+0.62)				1133 861

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$PbSb_x$		HF			689 458
PbSb(Eutectoid)	6.6				109 085
$Pb_{0.9}Sb_{0.1}$ (Quench condensed 0.4K)	6.28 7.27(Annealed)				∇1491
PbSe				1.26	084 002 064
$Pb_{1-0.97}Sn_{0-0.03}$	$T'_c(+0.04)$				1165 861
$Pb_{1-0.95}Sn_{0-0.05}$	$T'_c(+0.07)$				1133 861
$Pb_{0.96-0.87}Sn_{0.04-0.13}$		HF			322 457
$Pb_{0.57}Sn_{0.43}$	7.45	HF			1917
$Pb_{0.36}Sn_{0.64}$	7.75	HF			1917
$Pb_{0.28}Sn_{0.72}$	7.05	HF			1917
$Pb_{0.1-0.18}Sn_{0.9-0.82}$ (30 kbar, 280°C, to 78K, 0 kbar)	~5.6		(SnII?)		900
$Pb_{0.01}Sn_{0.99}$	3.752				1153
$Pb_{0-0.01}Sn_{1-0.99}$	3.731-3.734		TET		318#
$Pb_{0.9}Sn_{0.1}$ (Quench condensed at 0.4K)	6.77 7.17(Annealed)				∇1491
PbSnTe (See Table 4)					
Pb_3Sr	1.85		TET		715 1245
PbTe(Plus 0.1 weight % Pb)	5.19			0.020	669 1988
PbTe(plus <0.1 weight % Pb)	5.3-5.34	HF		0.020	669 1988
PbTe(plus 0.1 weight % Tl)	5.24-5.27			0.020	669 1988
PbTe (See Table 4)					
PbTe				1.28	011 064 119 423 1988
Pb_xTe_{1-x}	~20			0.020	1884 1341 1988
$Pb_{0.9}Te_{0.1}$ (Quench condensed at 0.4K)	5.35 6.92(Annealed)				∇1491
PbTe				2.4	∇1927
Pb_3Th	5.55		$L1_2$		715
$Pb_{1-0.98}Tl_{0-0.02}$	$T'_c(-0.07)$				1165
$Pb_{1-0.89}Tl_{0-0.11}$	$T'_c(-0.28)$				1133 861
$Pb_{1-0}Tl_{0-1}$	7.22-<1.24- 2.67	HF			736 1348 083 356 080 401 649
$Pb_{0.975-0.5}Tl_{0.025-0.5}$	540-555-185				356 401 080
$Pb_{0.99}Tl_{0.01}$	823.1, HF				979 1724# 586

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H (oersted)	Crystal Structure	T _n (K)	Refs.	
Pb _{0.96} Tl _{0.04}	7.06	864, HF			653# 1 641 322 586	d _{0.0} d _x Ru
Pb _{0.95} Tl _{0.05}		945			1724#	d _{0.3}
Pb _{0.93} Tl _{0.075}	6.98	880, HF			653#	d _{0.0}
Pb _{0.89} Tl _{0.11}	6.88	849, HF			653# 586	d ₄ S
Pb _{0.85} Tl _{0.15}	6.73	796, HF			653# 586	d _{2.6}
Pb _{0.79} Tl _{0.21}	6.43	756, HF			653# 586	d _{2.1}
Pb _{0.73} Tl _{0.27}	6.43	760, HF			1200 322	d ₂ S
Pb _{~0.6} Tl _{~0.4}	~5.8	HF			403 1434	d _{0.}
Pb _{0.53-0.47} Tl _{0.47-0.53} (No Brillouin zone effect)	5.637-5.312				1297	PdSb
Pb _{0.35} Tl _{0.65}	~3.8				074 080 082 098	Pd _{0.} PdSi
PbTl ₂	3.75, 4.10				082 071 080 098	Pd _{0.} Pd _{0.}
Pb _{0-0.003} Tl _{1-0.997}	T _c (+0.45)				209 1108	T N
Pb _x Tl _{1-x}	Data given				∇1126 ∇798	PdS
PbV ₃			A15	4.2	825	PdS
PbW				Data given	106	PdS
Pb ₃ Y	4.72		L1 ₂		715	Pd _{0.}
Pb ₃ Yb	0.23(broad)		L1 ₂		715	Pd _{0.}
Pb _{0.9} Zn _{0.1} (Quenched condensed at 0.4K)	6.37 7.12(Annealed)				∇1491	Pd Pd
Pb ₃ Zr ₅	4.60		D8 _g		270	Pd
PbZr ₃	0.76		A15		270	
Pd			A1	0.10	023 572# 637 963#	
Pd(0.1-1% Xe)			A1	1.1	∇1526	
Pd _{0.4} Pt _{0.1} Rh _{0.5}				0.015	963	
Pd _{0.25} Pt _{0.25} Rh _{0.5}				0.015	963	
Pd _{0.9} Pt _{0.1} Te ₂	1.65		C6		301	
Pd _{0.95} Pt _{0.05} Te ₂	1.71		C6		301	
Pd _{0.75} Rh _{0.25}				0.015	963# 572#	
Pd _{0.5} Rh _{0.5}				0.015	963# 572#	
Pd _{0.95} Rh _{0.05} Te ₂	1.65		C6		301	
Pd _{0.05} Rh _{0.04} Ti _{0.91}	3.7				1060	
Pd _x Rh _{1-x} Zr ₂	8.8-11.3		C16		1476	
Pd _{0.04} Rh _{0.29} Zr _{0.67}	8.56		C16		1372	

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
Pd_3Te	0.76				552
$PdTe$	3.85, 2.3		$B8_1$		552 039 037 572#
$Pd_{1.02-1.1}Te$	2.56-1.88- 4.07		$B8_1$		552 1587
$Pd_{1.75}Te_2$	2.25(Annealed) 1.93		C6		301
$Pd_{1.5}Te_2$	2.21(Annealed) 1.87		C6		301
$Pd_{1.25}Te_2$	2.20(Annealed) 1.90		C6		301
$PdTe_2$	1.45, 1.69		C6		1027 552 301
$Pd_{1.05}Te_2$	1.77		C6		301
$Pd_{0.95}Te_2$	1.89		C6		552
$Pd_{0.87}Te_2$	1.85		C6		552
$PdTe$ (See Table 3)					
Pd_5Th				0.32	469 572#
Pd_4Th			$L1_2$	0.10	1372
Pd_3Th				1.3	456
Pd_5Th_3				1.3	456
$PdTh$				1.5	711
$PdTh_2$	0.85, 0.75		C16		1377 469
$PdTh_2$	1.32		C16		1377
PdV_3	0.082		A15		707 948# 1023 980
$Pd_{1-0.75}W_{0-0.25}$			A1	0.2	846
$Pd_{0.74-0.56}W_{0.26-0.44}$	0.1-1.6		A1		846
$PdXe_x$				1.1	∇1441
Pd_3Y			$L1_2$	0.32	469 412
$Pd_{0.1}Zr_{0.9}$	7.5		HEX		032
Po				1.6	208
$Pr(\alpha)$			HEX	0.25	023
Pr_2S_3			CUB	1.68	558
$Pr_{0-0.3}Th_{1-0.7}$	1.37-0.3		CUB		768
Pt			A1	0.10	023 574 572# 637 963#
Pt				0.3	∇503 ∇756
$Pt_{0.2}Rh_{0.8}$				0.015	963

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Pt _{0.05} Rh _{0.04} Ti _{0.91}	4.3				1060
Pt _x Rh _{1-x} Zr ₂	6.8-11.3		C16		1476
Pt _x Ru	0.43-0.21		HEX		1570
PtSb	2.1		B8 ₁		037 396
PtSb (See Table 4)					
PtSbSe			C2	1.2	413 414
PtSbTe			C2	1.2	413 414
Pt ₃ Sc			L1 ₂	0.32	469
PtSc			B2	0.32	469 173
PtSc ₄				0.32	469
PtSi	0.88		B31		270
Pt ₃ Sn			L1 ₂	1.2	412
PtSn	0.37		B8 ₁		486
PtSn ₂			C1	0.34	486
PtSn ₄			ORTHO	1.3	229 222
Pt ₂ Sr			C15	1.02	028
Pt ₂ Ta			ORTHO	1.6	1299
PtTa	1.0		D8 _b		182
Pt _{0.3} Ta _{0.7}	1.45-<1.2 (Annealed) 1.4-<1.2 (Quenched)		D8 _b		276
Pt _{0.2} Ta _{0.8}			D8 _b	1.2	276
Pt _{0.15} Ta _{0.85}	0.400		A15		707 1023
PtTe	0.59		ORTHO		552
PtTe ₂			C6	1.2	301
Pt ₅ Th	3.13				469
Pt ₄ Th				0.32	469
Pt ₃ Th				0.32	469
Pt ₂ Th				0.32	469
Pt ₅ Th ₃				1.3	456
PtTh	0.44		B _f		469
Pt ₃ Th ₇	0.98		D10 ₂		469 270
Pt ₃ Ti				1.15	711
PtTi ₃	0.486, 0.58	HF	A15		707 270 010
PtTi ₂	1.58		C16		1377
Pt _{0.02} U _{0.98} (β)	0.87			1.2 (9.5 kbar)	698
Pt _{0.0175} U _{0.9825} (β)	0.85				700

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Pt ₃ V			L1 ₂	0.07	1372
Pt _{0.33} V _{0.67}				1.02	173
PtV ₃ (Various order states and anneals)	3.62-2.53		A15		707 1446 498 173 578
PtV ₃	3.20		A15		948# 645 707
PtV ₃	2.91(Quenched) 3.62(Annealed)		A15		1177
PtV ₃	2.53(As cast)		A15		707
Pt _{0.19-0.33} V _{0.81-0.67}	2.35-3.015- 0.199(Quenched) 2.4-3.62- 0.225(Annealed)		A15		1177 707 498 948#
Pt _{0.22} V _{0.78}	1.26, 1.76, 0.98		A15		707 498 948#
Pt _{1-0.73} W _{0-0.27}			A1	0.2	846
Pt _{0.98-0.95} W _{0.02-0.05}	1.1-2.2		CUB		239
Pt _{0.9-0.63} W _{0.10-0.37}	2.55-2.7		CUB's		239
Pt _{0.72-0.33} W _{0.28-0.67}	0.2-3.0		CUB		846
Pt _{0.6-0.3} W _{0.4-0.7}	0.4-2.15		CUB		239
Pt _{0.5} W _{0.5}	1.45				239
Pt _{0.25-0.1} W _{0.75-0.9}				0.3	239
Pt ₅ Y				0.32	469
Pt ₃ Y			L1 ₂	0.32	469 412
Pt _{2.2} Y	1.70		C15		469
Pt ₂ Y	1.57		C15		127 201
PtY				0.32	469
Pt ₂ Y ₃	0.9				469
Pt ₃ Y ₇	0.82		D10 ₂		469
Pt _{0.42} Y _{0.58}	0.76				469
PtZr	3.0		A3		032
Pu			MONO	0.4	1581 226 495 669
Rb			A2	0.011	494 245
Rb (P=0~150 kbar)				1.2	781
Re(RRR ~1000)	1.696	201			1636 029 221 382 1257 1243# 1220 972# 952 680 1254 045 362 147 161 1765 572# 465# 1470

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Re _{1-0.88} W _{0-0.12}	1.7-7.5				1646# 572#
Re _{1-0.84} W _{0-0.16}	1.6-8.0		HEX		266
Re ₃ W	9.0		A12		182
Re _{0.5-0.7} W _{0.5-0.3}	4.8-5.2		D8 _b		253
Re _{0.6} W _{0.4}	6.0, 4.9		D8 _b		266 136
Re _{0.5-0.52} W _{0.5-0.48}	5.03-5.2		D8 _b		266 557# 276 182 572#
Re _{0.4-0.15} W _{0.6-0.85}	5.1, 4.0-2.3		CUB		253 266
Re _{0.25} W _{0.75}	4.6	HF	CUB		266 289 572#
Re _{0.15} W _{0.85}	2.4		CUB		266
Re _{0.1} W _{0.9}			CUB	1.02	266
ReW _{0-0.002}	1.7-1.73				1646
Re ₀₋₁ W ₁₋₀	<2-11.41-8, 9-6 (Chem. vapor deposited) <0.5-5, 8.5-1.7 (Arc melted)				1854
Re ₁₋₀ W ₀₋₁ (Deposit 4.2K, amorphous)	7.5-3.5				∇1325
Re _{0.73} W _{0.27}	8.3 Max.				∇1438
Re _{0.6} W _{0.4}	9.7 Max.				∇1438
Re _{0.5} W _{0.5}	8.1 Max.				∇1438
Re _{0.67} Y _{0.33}	1.83		C15		127
Re _{0.67} Zr _{0.33}	6.0, 6.8		C14		133 270 427 1149 1478
Re _{0.86} Zr _{0.14}	7.4		A12		173 202
Re ₂₄ Zr ₅	3.0				427
Rh			A1	0.086	103 574 5 637 963# 1118
Rh				0.3	∇503
Rh _x Ru	0.37-0.11		HEX		1570
Rh _{1-0.55} Ru _{0-0.45} Se ₄	4.3-<0.05		C2		1185# 714#
Rh _{0.55-0} Ru _{0.45-0} Se ₄				0.05	1185
Rh _{0.04} Ru _{0.05} Ti _{0.91}	3.5				1060
Rh _{1-x} Ru _x Zr ₂	10.3-11.3		C16		1476
Rh _{0.97-0.875} Ru _{0.03-0.125} Zr ₂	10.8-10.1		C16		1372
Rh ₁₇ S ₁₅	5.8		CUB		035 238
RhSb			B31	0.35	270
Rh ₃ Sc			L1 ₂	0.32	469
RhSc			B2	1.02	279

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Rh_{0.32}Sc_{0.68}$				0.32	469
$Rh_{0.24}Sc_{0.76}$	0.88, 0.92 (Portion of sample)				469
$RhSc_4$				0.32	469
$Rh_{0.04}Sc_{0.05}Ti_{0.91}$	1.3				1060
$Rh_{0.53}Se_{0.47}$	6.0		C2		033
$Rh_{0.39-0.29}Se_{0.61-0.71}$	6 Max.				033 035
$Rh_{0.36}Se_{0.64}$	6.0		C2		035
$Rh_{0.29}Se_{0.71}$				1.04	035
$RhSi$			B20	0.35	270
$RhSn_2$	0.60		C16		1377
Rh_2Sr	6.2		C15		028 041
Rh_2Ta			C37	1.39	1299
$RhTa$	2.0		$D8_b$		182
$Rh_{0.4}Ta_{0.6}$	2.35		$D8_b$		276
$Rh_{0.33}Ta_{0.66}$	7.0 Max.				∇ 1438
$Rh_{0.04}Ta_{0.05}Ti_{0.91}$	2.3				1060
$RhTe_2$	1.51		C2		033 035 058
$RhTe_2$ (High temp. form)			C6	1.06	088
$RhTe$			$B8_1$	1.06	280 058
$Rh_{0.67}Te_{0.33}$	0.49				552
Rh_5Th	1.07				469
Rh_3Th			$L1_2$	0.32	469
Rh_2Th				0.32	469
$RhTh$	0.36		B_f		469
Rh_3Th_7	2.15		$D10_2$		270
$Rh_{0.91}Ti_{0.09}$	2.0				1060 522 440
$Rh_{0.88}Ti_{0.12}$	4.0		CUB		766
Rh_3Ti			$L1_2$	1.2	412
$RhTi_2$				1.2	1071
$Rh_{0.15-0.05}Ti_{0.85-0.95}$	3.95-2.25				093 171
$Rh_{0.135-0}Ti_{0.865-1}$	4.3 Max.				717
$Rh_{0.12, 0.1}Ti_{0.88, 0.9}$	4.0		CUB		717 1071#
$Rh_{0.08}Ti_{0.92}$	3.5		CUB		1071#
$Rh_{0.06}Ti_{0.94}$	2.6		CUB		1071#
$Rh_{0.04}Ti_{0.96}$	2.0		CUB		1060 766 717
$Rh_{0.03-0}Ti_{0.97-1}$	1.34-1.79-0.79		A3		1109# 766 1071#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Rh_{0.91}Ti_{0.4}V_{0.05}$	2.9				1060
$Rh_{0.91}Ti_{0.4}W_{0.05}$	3.4				1060
$Rh_{0.91}Ti_{0.04}Y_{0.05}$	1.4				1060
$Rh_{0.91}Ti_{0.04}Zr_{0.05}$	1.8				1060
Rh_3U			L1 ₂	1.2	412
$Rh_{0.02}U_{0.98}$	0.96				698
RhV_3			A15	0.015	707 1001 948 1496 270
$Rh_{0.35}V_{0.65}$	1.075 1.036(Long anneal)				1496
Rh_3V			L1 ₂	1.2	412
RhW	3.37-2.64.1.9		HEX		033
$Rh_{0.3}W_{0.7}$	7.3 Max.				▽1438
$Rh_{1-0}Y_{0-1}$	1.45-0.4				454
Rh_5Y	0.56				469
Rh_3Y	1.07		C15		469
Rh_2Y			C15	0.32	270 469 127
RhY			B2	0.32	469
RhY_2				0.32	469
Rh_3Y_7			D10 ₂	0.32	658 469
Rh_2Y_3	1.48				469
RhY_3	0.65				469
$RhZr$	2.7			1.7	648 033
$Rh_{0.45-0.10}Zr_{0.55-0.9}$	~10.8				648
$Rh_{0.4}Zr_{0.6}$	5.9-7				033
$RhZr_2$	11.36(Long anneal)		C16		1476 1478 1377 648 033
$Rh_{0.33}Zr_{0.67}$	11.25(As cast)				1858
$Rh_{0.25-0.36}Zr_{0.75-0.64}$	11.5-11.1(As cast)				1476
$Rh_{0.027-0.005}Zr_{0.973-0.995}$	4.8-3.5		A3		766 033
$RhZr_3$	11.0		E9 ₃		766
$Rh_{0.23-0.2}Zr_{0.77-0.8}$	9.0				033
$Rh_{0.17}Zr_{0.83}$	9.6				033
$Rh_{0.14}Zr_{0.86}$	9.5		HEX		033
$Rh_{0.15-0.1}Zr_{0.85-0.9}$	12.2-11.6				459
$Rh_{0.15-0}Zr_{0.85-1}$	10.2-9.8(Annealed)				459
$Rh_{0.14}Zr_{0.86}$	11.1	HF			1858 033
$Rh_{0.12}Zr_{0.88}$	11.0		CUB		766

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Rh _{0.09-0.035} Zr _{0.9-0.965}	11.0-5.0		CUB		766 032 648 033
Rh _{0.08-0.03} Zr _{0.92-0.97}	6.1-3.1				1061# 572#
Rh _{0.08-0} Zr _{0.92-1}	6.4-6 (Unannealed)				459
Rh _{0.07-0.005} Zr	10.4-7.8				648 033
Rh _{0.04-0.02} Zr _{0.96-0.98} (m)	3.9-2.7				648
Rh _{0.03} Zr _{0.97}	3.1 10.4, 5.5 (As cast)				1061# 1858 033 1061
Rh _{0.02-0.001} Zr _{0.98-0.999}	4.3-2.1, 5.8, 1.5			1.7	648 033
Rh _{0.33} Zr _{0.66}	11.2 Max.				∇1438
Rh _{0.25} Zr _{0.75}	11.4 Max.				∇1438
Ru	0.493		A3		816 731# 920 132# 99 104 101 249 236 184 029 972# 569 001 572#
Ru(0.1-1% Xe)			A3	0.08	∇1526
RuS ₂			C2	0.32	552
RuSb			B31	0.35	491 1582 711
Ru ₂ Sb				0.35	491
Ru ₂ Sc	2.24		C14		1026 127 115
RuSe ₂			C2	0.32	552
RuTe ₂			C2	0.32	552
Ru ₂ Th	3.56		C15		173 572
RuTi	1.07		B2		270
Ru _{0.05-0.1} Ti _{0.95-0.9}	3.5, 2.5				093 171 522
Ru _{0.02-0.06} Ti _{0.6} V _{0.4}	6.6 Max.				171
Ru ₃ U			L1 ₂	1.2	412
Ru _{0.54-0.45} V _{0.46-0.55}	3.5-<0.4- 5.0-4.0				1930#
Ru _{0.5} V _{0.5}				0.4	1930 1119
Ru _{0.475-0.42} V _{0.525-0.48}	3-5, 7-3, 8-5- 2.1 (Annealed) 1.5-5.4-3.8- 4-3.5 (As cast)		TET, CUB		1757
Ru _{0.465} V _{0.535} (0-24 kbar)	5.8 Max.				1757
Ru _{0.46} V _{0.54}	5.0		B2		1930# 1706
Ru _{0.46} V _{0.54} (0-20 kbar)	4.85-5.05				1706
Ru _{0.452} V _{0.548}	3.8-4.2				1119
Ru _{0.45} V _{0.55}	4.0		B2		572

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Ru_{0.4}V_{0.6}$	~1				119 572#
$Ru_{0.58}W_{0.42}$	5.2		$D8_b$		182
RuW	7.5				033
$Ru_{0.4}W_{0.6}$	4.67		$D8_b$		276
$Ru_{0.5}W_{0.5}$	5.7 Max.				∇1438
$Ru_{0.4}W_{0.6}$	5.0 Max.				∇1438
$RuXe_x$				0.08	∇1441
Ru_2Y	2.42		C14		1026 127 115
RuY_3				4.2	1989
Ru_2Zr	2.4, 1.84		C14		1478 173
$Ru_{0.1}Zr_{0.9}$	5.7		HEX		032
S_3Sb				1.28	011
$S_{~1-1.1}Sc$	4.5-<1.5		B1		1915# 1219
SSc			R1	0.33	1210
$S_{2-0}Se_{0-2}Ta$	0.8-2.7-2.1, 3.8-4.1-<1		HEX's		1910
$S_{1.2}Se_{0.8}Ta$	3.9	HF			1262
$SSeTa$	3.7	HF			1262
$S_{0.8}Se_{1.2}Ta$	3.9	HF			1262
$SSeTa$ (See Table 3)					
SSn				1.28	011
S_2SnTa	2.96-2.84		TET		1150#
S_2Ta	0.8		HEX		1918 1192 1128 1027 797 675
S_2Ta	1.6, 1.99-1.82, ≈3.6		HEX		796# 778 1871 1128
S_2Ta	0.6-0.80 1.3-2.1 (Vapor transport)				797
S_2Ta (See Table 3)					
$S_2Ta_{1-0}Ti_{0-1}$					1992#
S_2TaW (See Table 3)					
STi				1.0	1191
S_2Ti (See Table 3)					
STi_2				1.3	084
SV_3 (Room temp. phase)				1.13	1582 711
S_2W			HEX	1.25	1918
SW_2				1.3	084

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
S_2W (See Table 3)					
SY	1.9-1.3		B1		1219
$S_4Zr_{3.6-4.5}$	4.5-2.5(Max.)		B1		1659
$S_{1.1}Zr$	4.5-2.5(Max.) 3.3(Annealed)		B1		1659
$S_{1.1}Zr(20-160 \text{ kbar})$	4-6.9				1659
S_2Zr (See Table 3)					
Sb			A7	0.152	103
Sb(III)(85, 93, 100, ~150 kbar)	3.55, 3.52, 3.53, 3.40				774 902
Sb(Prepared at 120 kbar, held at 77K)	2.6-2.7	HF			520
$Sb_{0.7}Sn_{0.3}$ ("Gun" Cooled)	2.85		CUB		1829
SbSn	1.56		B1		1542# 470
$Sb_{0.4}Sn_{0.6}$	3.8	Data given			085
$Sb_{0-0.08}Sn_{1-0.92}$	2.64-3.96 -3.89	304-345			036# 265
$Sb_{0.05}Sn_{0.95}$ (Weight fraction)	3.75	HF			1917
$Sb_{0-0.005}Sn_{1-0.995}$	$T_c^1(-0.034)$				817
Sb_xSn_{1-x}	$T_c^1(-0.040)$ -0.018)	Data given			1618 318# 320
$Sb_{0.011}Sn_{0.989}$	3.642	301.7			1724#
SbSn(See Table 4)					
$Sb_{1-0.1}SnTe_{0-0.9}$	1.6-~1				1605
SbSnTe(See Table 4)					
$SbTa_3$	0.72-0.59		A15		1015
Sb_2Ta			MONO	0.30	1508 1584
SbTe (See Table 4)					
$SbTe_2Ti$			RHOMB	0.015	1139
Sb_2Ti			C16	0.07	1377 1583
$SbTi_3$	5.47, 5.8, 6.5		A15		1002# 173 1446
$Sb_{0.25}Ti_{0.75}$	7.2 Max.				∇1438
$Sb_{0.12-0.31}Ti_{0.88-0.69}$	2.3-5.3-4.4 (Quenched) 2.0-6.5-5.8 (Annealed)		A15		1002
$SbTi_{0-3}V_{3-0}$	6.5-0.8(Quenched) 5.3-0.8(Annealed)		A15		1002

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Sb_{0.66}Tl_{0.33}$	5.2				085 087
$Sb_{0.28}Tl_{0.72}$	5.2				111 089
$Sb_{0-0.004}Tl$	$T_c (-0.02+0.015)$				591
Sb_xTl_{1-x}	$T_c (+0.21)$		Data given		858 1878
Sb_2V			C16	0.06	1377
SbV_3	0.80		A15	1.0	578 117 142 128 1002# 270
$Sb_{0.03}V_{0.97}$	2.63		A2		514# 572#
$Sb_{0.01-0.03}V_{0.99-0.97}$	3.76-2.63		A2		514#
SbY			B1	1.02	270 411
Sb_2Zr				0.30	1504
Sb_2Zr_3	1.74				270
Sb_3Zr_5			$D8_8$	1.13	1582
Sc (P=0-160 kbar)				0.014	1994
Sc			A3	0.032	744# 660 132 234 572#
ScSe			B1	0.33	1219
ScSi ₂				1.0	025
$Sc_{0.01-0.6}V_{0.99-0.4}$	5.5-7.04-6.8	HF			1698
$Sc_{0.8}Zr_{0.2}$				Data given	744# 572#
$Sc_{0.5}Zr_{0.5}$				0.022	744# 572#
$Sc_{0.4}Zr_{0.6}$				0.04	744#
$Sc_{0.25}Zr_{0.75}$				Data given	744# 572#
$Sc_{0.2-0.1}Zr_{0.8-0.9}$				0.036	744# 572#
$Sc_{0.07}Zr_{0.93}$	0.08-0.04				744#
$Sc_{0.05}Zr_{0.95}$	0.11-0.08				744# 572#
$Sc_{0.01}Zr_{0.99}$	0.32-0.25, 0.17-0.12				744
Se			A8	1.26	273
Se(II)(P= \sim 130 kbar)	6.75, 6.95				547
Se_4Nb_3	1.61				711
Se_2Ta (2s type)	0.13-0.15, 0.2				797 796# 1027
Se_2Ta (3s type)	0.16-0.22				797
Se_2Ta (See Table 3)					
SeTh			B1	1.13	1582

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Se_{1.05}Ti$			$B8_1$	1.13	1582
Se_8Ti_5			Data given	1.13	1582
Se_2V				1.0	675
Se_2V_{1+x}				0.05	797
Se_2W (See Table 3)					
Se_4Y_3			ORTHO	0.35	1965# 1370#
SeY	2.5-2.3		$B1$		1219
Se_4Zr_3			RHOMB	1.13	1582
Si			$A4$	0.073	103 333
Si			CUB	0.33	303 305
Si (P-120-130 kbar)	0.7, 7.1				540 1068#
$Si_{1-0}Sn_{0-1}V_3$	16.5-<3.8-3.8 17.1-6		$A15$		1369 1914
$Si_{1-0.75}Sn_{0-0.25}V_3$	17-11		$A15$		1983
Si_3Sr_2	~ 0.55		C_c		961
Si_2Sr			CUB	0.32	961
Si_2Ta				1.20	010 333 042
$Si_{0.4}Ta_{0.6}$				1.20	010
$Si_{0.28}Ta_{0.72}$				1.20	010
$Si_{0.16}Ta_{0.84}$				1.20	010
$Si_{0.35}Ta_{0.65}$			$C16$	010	1377
$SiTa_3$			TET		1958
$Si_2Th(\alpha)$	3.16		C_c		010 042 474
$Si_2Th(\beta)$	2.41		$C32$		010 474
Si_2Th_3			TET	0.1	927 010
Si_2Ti			$C54$	1.20	010 042 522
$SiTi$				1.20	010 042
Si_3Ti_5			$D8_8$	1.20	010 042 522
$SiTi_{0.15}V_{2.85}$	14.55				1976
Si_3U			$L1_2$	1.3	1677#
Si_2U_3			TET	0.1	927
Si_2U			C_c	0.35	270
SiU_3			TET	1.10	021
Si_2V				1.20	010
$Si_{0.4}V_{0.6}$				1.20	010
Si_2V_5			TET	0.35	270

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Si _{0.38-0} V _{0.62-1}	12.5-16.3-5, 16.7 Max. (As cast) 14-16.6-7, 16.95 Max. (Annealed)				479 1466 1059
Si _{0.3} V _{0.7}	16.95		A15		707
Si _{0.279-0.0036} V _{0.721-0.996}	17.2-5.04		A15		1521 1469#
Si _{0.263} V _{0.737}	15.8		A15		32
Si _{0.25} V _{0.75}	17.1		A15		010 042 447 474 578 1945
Si _{0.25} V _{0.75}	17.0		A15		707 323 010
Si _{0.25} V _{0.75}	16.95-16.9	HF	A15		1073 645 1064 1164 310 1110 1075 877
Si _{0.25} V _{0.75}	16.86-16.8	HF	A15		880# 1013 1446 1013 1446 787 1101 010 1315# 316
Si _{0.25} V _{0.75}	16.65-14.5		A15		707 1369 890 1217# 1066 572# 545 465# 447 317 128 042
Si _{0.25} V _{0.75} (P=0-~18 kbar)	16.6-17.3		A15		1933 1342 094 1945 1013 1079
Si _{0.25} V _{0.75} (1000- 10 ⁵ Å)	14.85-16.95	HF	A15		∇716 ∇460 ∇1410
Si _{~0.2} V _{~0.7} (with Al, B, Be, C, Ce, Cr, La, Mn, O, or Re)	16.6-<14		A15		323
Si _{0.25} V _{0.65} (Ti, Zr, Nb, Mo, Cr or Ru) _{0.1}					042 010
Si _{0.15} V _{0.75} (Al, B, C or Ge) _{0.1}					042 010
Si _{0.206} V _{0.794}	14.5		A15		323
Si _{0.2} V _{0.8}	7.51		A15		707
Si _{0.245-0.205} V _{0.755-0.795}	16-8.5		A15		1286
Si _{0.22} V _{0.78}	14.38		A15		144
Si _{0.05-0} V _{0.95-1}	2.95-5.2				1890#
Si ₂ W				1.20	010 042
Si _{0.4} W _{0.6}	2.84				010 042 474
Si ₂ Y			C32	0.35	025 270
Si _{0.665} Y _{0.335}			C _c	0.1	808# 676# 572#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
SiY				1.15	711
Si_2Zr			C49	1.02	270 010 042
SiZr				1.20	010
$Si_{0.45}Zr_{0.55}$				1.20	010
Si_2Zr_3			TET	0.1	927 010
Si_3Zr_5			$D8_8$	1.1	262
$SiZr_2$			C16	0.06	1377
$Si_{0.2}Zr_{0.8}$				1.20	010
Sm			RHOMB	0.37	291
Sn			A4	0.1	363 104 108
Sn	3.722	305.5	A5		579# 580 785 749# 814 804 1153 1724# 539 206 267 318 024 001# 180 320 345 580# 1267 1043 329 205 180 104 108 318 361 405
Sn(II)(P=125, 160 kbar)	5.2, 4.85				785
Sn II		400(240 kbar) 375 (270 kbar)			785
Sr (III)(P=113 kbar)	5.30				780
Sn(P=0-32 kbar)	Data given	306-200			829
Sn(In porous media, 31\AA , 39\AA)	4.936, 4.248	HF			1642
Sn(Whiskers, 10,000-30,000 \AA)	3.562-3.765				1448 1546
Sn(Whiskers, 1% elastic strain)	3.5-4.0	350-390			1335
Sn(Whiskers, 1.7% strain)	T_c (+0.45)				974
Sn(650-2000 \AA), grain size, 100-600 \AA)	2.84-4.66	HF			∇ 1967 ∇ 596 ∇ 1062 ∇ 723 ∇ 1645 ∇ 1229
Sn(850, 1580, 3420 \AA)	3.794, 3.847, 3.840				∇ 862
Sn(Deposited at 4.2K)	3.7-4.44	HF			∇ 1877
Sn(Deposited at 2K)	4.5 3.6(Annealed)				∇ 1218
Sn(\sim 200 \AA)	\sim 6 Max.				∇ 837
Sn(\sim 15-40 \AA)	4.2-5.9-4.5				∇ 1259
Sn(5400 and 8700 \AA , 10.400 \AA)	3.88, 3.90				∇ 1268

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Sn(Other thin film studies)					▽296 ▽373 ▽379 ▽371 ▽516 ▽532 ▽734 ▽602 ▽757 ▽750 ▽1069 ▽366 ▽392 ▽294 ▽1516 ▽347 ▽332 ▽294
SnTa ₃ (highly ordered)	8.35, 7	HF	A15		581 1462
SnTa ₃ (low order)	6.2	HF	A15		581
SnTa ₃	5.6-6.4	HF	A15		1446 1362 473 185 139 124 034
Sn _{0.26-0.1} Ta _{0.74-0.9}	7.2-<4.2				581
Sn _{0.174-0.104} Ta _{0.826-0.896}	6.5-<4.2				581
Sn _{0.25} Ta _{0.25} V _{0.5}	2.8		A15		185 473
Sn _{0.25} Ta _{0.5} V _{0.25}	3.7		A15		473 185
Sn _{0.35} Te _{0.65} ("Gun" cooled)	1.9		CUB		1829 813#
Sn _{0.25} Te _{0.75} ("Gun" cooled)	1.7		CUB		1829
SnTe(See Table 4)					
Sn ₃ Th	3.33		L1 ₂		715
SnTi ₃			DO ₁₉	1.02	270
Sn _{1-0.997} Tl _{0-0.003}	T _c ' (-0.052)				1032
Sn ₁₋₀ Tl ₀₋₁	3.72-5.6-3.61- 5.2-2.37				088 089 1108
Sn _{0.65} Tl _{0.35} (Prepared at 15 kbar, 170-305C)	6-7.1	HF			900
Sn _{0.1} Tl _{0.9} (Deposited 0.3K)	3.50 2.77(Annealed)				▽1900
Sn ₃ U			L1 ₂	1.3	1677#
Sn ₃ V ₂				1.15	711
SnV ₃	3.8, 3.050		A15		1369 1446 473 185
SnV ₃	7.0		A15		128 117 124
Sn _{0.057-0.02} V _{0.943-0.98}	~1.6-2.87				514# 572#
Sn _{0.025-0} V _{0.975-1}	5.20-3.16				1890#
Sn ₃ Y ₅				1.4	863 711
SnY ₂				1.15	711
Sn _{1-x} Zn	T _c ' (-0.037)	Data given			1618 318#
Sn _{0.91} Zn _{0.09} (Laminar period study)	3.668-3.722				726

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$\text{Sn}_{1-0}\text{Zn}_{0-1}$	Data given				081 105 070
SnZr_4	0.92-0.79		A15		1015 572#
Sr			A1	0.017	270 1214
Sr(P=0~150 kbar)				1.2	781
Sr(Deposited 4.2K, 100Å)	3.6	HF			∇710
Ta	4.463	931	A2		713# 188# 176# 180 324 342 1513 1209 505 169 1781 244 180 001 024 1816 911 324 525 572# 1267 1248 342 1230 465# 371 375
Ta(99.95%)		HF			519 1393
Ta(215-110, 000Å)	<1.7-4.25	HF			∇1249 ∇719 ∇529 ∇505 ∇1787 ∇393
Ta(9000A, 1, 000A)	4.45, 4.51				∇1199
Ta(200A, annealed 325C)	3.06		A1		∇1787
Ta(0.1-1% Xe)	1.48		A2		∇1526
TaTe_2				0.05	797 796# 675
$\text{Ta}_{1-0.3}\text{Ti}_{0-0.7}$	4.48-8.8-7.2	HF	A2		1209 1797 441 522 466 299
$\text{Ta}_{1-0.7}\text{Ti}_{0-0.3}$	4.3-6.5	HF			252
$\text{Ta}_{0.9-0.7}\text{Ti}_{0.1-0.3}$		HF			289 299 321 429
$\text{Ta}_{0.68-0.46}\text{Ti}_{0.32-0.54}$	8.02-8.26 (Annealed) 8.28-9.05 (Cold worked)				1209 252
$\text{Ta}_{0.52}\text{Ti}_{0.48}$	7.86	HF			874 1391 1797
$\text{Ta}_{0.05, 0.025}\text{Ti}_{0.95, 0.975}$	2.9-1.3		HEX		499
$\text{Ta}_{0.63}\text{Ti}_{0.30}\text{Zr}_{0.07}$		HF			1391
$\text{Ta}_{1-0}\text{V}_{0-1}$	4.33-2.73- 5.17	769-573- 1336			1307# 441
$\text{Ta}_{0.75}\text{V}_{0.25}$	2.65		A2		572#
$\text{Ta}_{0.5}\text{V}_{0.5}$	2.35		A2		572#
TaV_2				1.5	1400#
$\text{Ta}_{0.25}\text{V}_{0.75}$	2.80		A2		572#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.
Ta _{0.06-0} V _{0.94-1}	4.46-5.24				1704# 587# 572#
Ta _{0.5-0} V _{1.5-2} Zr	8.8-9.3-8.5				1323
Ta _{0.05} V ₂ Zr _{0.95}	8.9				1652
Ta _{1-0.8} W _{0-0.2}	4.4-1.2		CUB		253 441 572#
Ta _{0.96-0.78} W _{0.04-0.22}	3.30-1.36				1816
Ta ₁₋₀ W ₀₋₁ (Deposited 4.2K, amorphous)	1.6-3.5				∇1325
TaXe _x	1.48				∇1441
Ta _{0.96} Zr _{0.04} (Various anneals)	5.7-5.0				1790
Ta _{0.2-0} Zr _{0.8-1}	5.6-0.8 (Discontinuity at Ta _{0.15})				1969
Ta _{0.15} Zr _{0.85}	4.3 (quenched) 3.25 (Annealed)				1969
Ta _{1-0.9} Zr _{0-0.1}		HF			441
Tb			A3	0.37	291
Tc (RRR~100)	7.73, 7.77	1410, HF	A3		1161# 1138 1147 1537 1161 712 1656 556
Tc	7.46-9.3 11.2	HF			1180# 633 230 202 001 1336 615 102 163
Tc (0-15 kbar)	8.0-7.8				836
Tc (>150-1600 Å)	4.6-7.70		A3		∇1685
Tc (<150 Å)	4.8-7		A1		∇1685
Tc _{0.44} Th _{0.56}	5.3		C14		1149
Tc _{0.95} V _{0.05}	10.99	HF			1138
Tc _{0.9} V _{0.1}	11.32	HF			1138
Tc _{0.8} V _{0.2}	11.24	HF			1138
Tc _{0.75} V _{0.25}	11.07	HF			1138
Tc _{0.7} V _{0.3} (Annealing variations)	7-8.3 7-6.6	HF			1791 1138
Tc _{0.7} V _{0.3} (Quick cool)	6.41	HF			1138
Tc _{0.65} V _{0.35}	4.49	HF			1138
Tc _{0.6} V _{0.4}	4.17				1138
Tc _{0.5-0.2} V _{0.5-0.8}				1.39	1138
Tc _{0.1} V _{0.9}	1.50				1138
Tc _{1-0.15} W _{0-0.85}	8.35-10.4-3.3				1337

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_c (oersted)	Crystal Structure	T_n (K)	Refs.
$Tc_{\sim 0.9}W_{\sim 0.1}$	10.4				1337
$Tc_{0.6,0.5}W_{0.4,0.5}$	7.88, 7.52	HF			524
$Tc_{0.4-0.1}W_{0.6-0.9}$	7.18-1.25	HF	CUB		524
$Tc_{0.05}W_{0.95}$			CUB	~ 0.8	524
Tc_6Zr	9.7		A12		202
Tc_2Zr	7.6		C14		1149
Te			A8	0.05	1277 273
Te(II)(P=40-70 kbar)	2.5-3.9				1688
Te(II)	2.05(43 kbar) 3.4(50 kbar)	HF			909 1172 510
Te(III)(P=68-80 kbar)	4.28-4.15				909 1638
Te(IV)(P=80-100 kbar)	4.3-3.3				1688 909
Te(P=100-260 kbar)	3.3-2.8				1688
Te (See Table 4)					
TeTh			B2	1.13	1582
Te_2Ti				1.1	1583
Te_4Ti_3				1.13	1582
$TeTi$			$B8_1$	1.13	1582
Te_4Ti_5				1.13	1582
Te_3Ti_5	2.078, 2.14- 2.23	HF			848 1440# 849
$Te_{0.1}Ti_{0.9}$ (Deposited 4K, $\sim 6000\text{\AA}$)	4.2 ~ 2.5 (after anneal)				∇ 1932
Te_3Ti_5 (See Table 4)					
Te_2V_{1+x}				0.05	797 675
Te_3V_2 (Room temp. phase)			MONO	1.13	1582
Te_2W (Room temp. phase)				0.3	1584
TeY	1.5-2.05		B1	1.02	1219 270
Te_3Zr				1.13	1582
Th(RRR=1200)	1.390	159.1 (Ref. 1291)	A1		1123# 1571# 1561 1563 1488 1291 802# 001 151 135 504 1267 791 1182# 1361#
Th(P=60-~160 kbar)	0.7-0.64				1488
$ThTi_3$	0.87		$L1_2$		715
$Th_{1-0.7}Tm_{0-0.3}$	1.37-0.67				768
$Th_{1-x}U_x$	1.36-0.07				951 1559

TABLE 2 (Cont'd). Properties of Superconductive Materials

TAB

Material	T _c (K)	H ₀ (oersted)	Crystal Structure	T _n (K)	Refs.	
Th _{1-0.998} U _{0-0.002}	1.360-0.304	137.1-77.0			1563# 1226	Ti ₀
ThU _{0.00075}	0.785				1227#	Ti ₀
ThU _{0-0.0012} (P=0-~22 kbar)	1.36-0.55 (Lowers T _c)				1519 1227#	Ti _v
Th _{1-0.65} Y _{0-0.35}	1.28-1.64-1.53		A1		1182# 1361#	Ti _c
Th _{0.55-0} Y _{0.45-1}	1.2-1.8				234	Ti _c
Th _{0.5} Y _{0.5}	1.25				234	Ti _c
Th _{0.4-0} Y _{0.6-1}			HEX	1.2	1361 1182#	Ti _c
Th ₂ Zn	0.67		C16		1377	Ti _i
Ti	0.40	56	A3		253 490# 001 192 166 167 168 1002# 759# 1691 1071# 1061# 572# 554# 477# 130	Ti
Ti	2-3		A2		1691	
Ti(w)(120 kbar, 300K, low oxygen)			HEX	0.06	1691 097 1712	
Ti(99.92%)	0.14	HF			523 688	
Ti(Deposited 100-400°C, 100-7000Å)	1.3 Max.			1.3	∇1273 619	
Ti(0.1-1% Xe)	2.52		A3		∇1526	
Ti ₄ Tl			A15	0.35	980	
TiU ₂			C32	1.06	021 522	
Ti _{1-0.85} V _{0-0.15}	0.6-4.4 0.6-6.6(Annealed)		HEX		301 274	
Ti _{0.975} V _{0.025}	1.4		HEX		499	
Ti _{0.96} V _{0.04}	2.7				477# 554# 572#	
Ti _{0.9} V _{0.1}	6.3				253	
Ti _{0.85-0} V _{0.15-1}	7.5-2.3	HF	CUB		253 572# 130 330# 838 218 289 399	
Ti _{0.775} V _{0.225}	4.7	1100, HF			584 616	
Ti _{0.76} V _{0.24}	4.382 (Quenched) 3.875 (Annealed) 5.089(Annealed)				1861	
Ti _{0.75} V _{0.25}	5.3	1940, HF			584 616	
Ti _{0.7} V _{0.3}	6.14				514#	
Ti _{0.615} V _{0.385}	7.07	HF			600	

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
$Ti_{0.6}V_{0.4}$	7.0	HF			878
$Ti_{0.516}V_{0.484}$	7.20	HF			600
TiV	6.09	HF			466 455 522 195 130
$Ti_{0.5-0}V_{0.5-1}$	6.7-5.3	1250-1050			314
$Ti_{0.42}V_{0.58}$	7.52, 7.49	HF			874 600
$Ti_{0.4-0}V_{0.6-1}$	7.5-5.2	HF	A2		441#
$Ti_{0.12}V_{0.88}$		HF			688
$Ti_{0.09-0.03}V_{0.91-0.97}$		HF			688
$Ti_{0.013}V_{0.987}$	12.8				∇ 1956
$Ti_{0-0.8}V_{1-0.2}$ ($\sim 3000\text{\AA}$)	5.3-12.8--6				∇ 1956
$Ti_{0.33}V_{0.33}Zr_{0.33}$	6.6 Max.				∇ 1438
$Ti_{0.17}V_{0.5}Zr_{0.33}$	7.6 Max.				∇ 1438
$TiXe_x$	2.52				∇ 1441
$TiZn_2$			C14	1.02	270
$Ti_{0.8}Zr_{0.2}$			HEX	1.0	253 572#
$Ti_{0.66}Zr_{0.33}$	1.36		HEX		253
$Ti_{0.5}Zr_{0.5}$	1.23(Annealed) 2.0(quenched)				477
$Ti_{0.5}Zr_{0.5}$	1.65, 1.60, 1.57				1061# 759# 253 572#
$Ti_{0.33}Zr_{0.66}$	1.35		HEX		253
$Ti_{0.25}Zr_{0.75}$					572#
$Ti_{0.18}Zr_{0.82}$	1.03		HEX		253
$Ti_{0.1}Zr_{0.9}$			HEX	1.0	253
Tl(α)	2.38	176.5	A3		527# 1378 1145 760 001# 024 1155 1267 1308 1923# 1156
Tl(β)	2.332	181	A2		1378
Tl(In porous media, ~ 100 - ~ 32 - $\sim 22\text{\AA}$ pores)	$T_c(0, +0.21, +$ 0.17				1614
Tl(In porous media, 32, 58 \AA)	2.649, 2.612	HF			1642
Tl(P=0-27 kbar)	$T_c(+0.02-0.25)$				998
Tl(35 kbar)	1.95		A3		641#
Tl(35 kbar)	1.45		A1		641#
Tl(25-48 kbar)	1.38-1.5				641 ∇ 1900

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	T_n (K)	Refs.
Tl(Deposited 0.3K, 100-500Å)	2.96 2.40 (after 300-330K)			∇1900
Tl(Deposited 4K, 2900Å)	2.33-2.9	HF		∇1925 ∇1932 ∇1877 ∇220 ∇376 ∇1069
Tl(In Ne, Xe, 150Å, deposited ~80K)	2.6			∇1069 ∇1229
Tl(<100Å at 105K)	2.64 2.72(Oxidized)			∇1062
Tl _{1-0.7} Sb _{0-0.3}	2.905-~5.3- 4.198	HF		1378
TlV ₃			A15	4.2 825
Tl ₃ Y	1.52		L1 ₂	715
Tl _{0.9988} Zn _{0.0012}	T_c (+~0.002)	Data given		1095 1108
Tl _{0.9} Zn _{0.1} (Deposited 0.3K)	3.63 2.60(after 300-330K)			∇1900
TlZr ₄			A15	0.35 980
Tm			A3	0.35 270
U(α)			A20	0.1 1487 802# 1152 724 701 703 702 698 504 177# 027 157 001 021 1252 1779 629
U(10 kbar)	2.1, 2.4			1487 1495 1416 879 724 570
U(10, 40, 70, 85 kbar)	2.1, 1.3, 0.8, 0.4			1487 879
U(90-160 kbar)			0.35	1487
U(2, 12, 24 kbar)(α)	1, 2.4, 1.5			1495
U(1, 9 kbar)	0.2, 2.0	HF		1416
U _{0.37-0.14} Zr _{0.63-0.86} V(RRR=430)	5.43	1408, HF	A2	1.00 134 021 1162 1719 742# 788 572# 1935 1549
V(RRR=140, 150)	5.37, 5.38	HF	A2	1639 742# 572# 525
V(RRR=33, -)	5.1-5.31	1020, HF	A2	548 1979 578 366 917# 617 001 1515 1002#

TABLE 2 (Cont'd). Properties of Superconductive Materials

Material	T_c (K)	H_0 (oersted)	Crystal Structure	T_n (K)	Refs.
V	4.59-5.06	1310, HF	A2		917# 024# 016 130 572# 001# 1106 548 157
V(5000Å, 11,000Å)	5.14, 6.02	HF			∇1199 ∇1444
V	1.8-4.8				∇297 ∇313
V (See Table 3)					
V(0.1-1% Xe)				1.1	∇1526 ∇1441
V(P=0-24 kbar)	5.47-~5.6				1248 727
V(RRR=285, P=0-250 kbar)	5.5-7.15				1690
VZr ₃			L1 ₂	1.02	270
V _{0.1-0.9} Zr _{0.9-0.1}	6.5-8.3-7.0	HF			889 1981
V _{0.7} Zr _{0.3}	8.6		C15		1189
V ₂ Zr	8.5, 8.2		ORTHO		1323 1400# 1306
V ₂ Zr	8.8, 9	HF	C15		173 1189 1981
V _{0.6} Zr _{0.4}	8.3				889
V _{0.4} Zr _{0.6}	~7.8	HF			889 678
V _{0.09-0.06} Zr _{0.91-0.94}	7.0-<4.2	HF			1306
W(RRR=57,000)	0.0154	1.15	A2		887# 1494# 840# 1830 882# 493# 526 572# 179# 103 033
W(~2000Å, ~20-310Å) (Function of oxygen content)	3.1-3.3 1.7-4.1 <1.0-3.2	HF	A15		∇671 ∇1397 ∇1042 ∇921 ∇541 ∇503
W(with 0.1-1% Ne, Ar, Kr, Xe)	3.02, 3.7, 4.2, 5.5		A2		∇1526 ∇1441
W ₂ Zr			C15	0.033	1988 1586 956 173 956
W _{0.04-0.8} Zr _{0.96-0.2}	2.9-3.9-2.0 (Sharp dip of T_c at W _{0.669})		CUB		956
Xe _x Y				1.1	∇1441
Xe _x Zr	4.0				∇1441
Y			A3	0.005	1367 1361# 1350# 1182# 781 660 472 023 132 234 972 812# 808# 676# 572# 465# 234 179

TABLE 5. (Cont'd). Critical Magnetic Fields H_{c1} , H_{c2} and H_{c3} of Superconductive Materials
 (Mainly Type II) NOTE: Magnetic fields in kilooersteds.

Material	T_c (K)	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs} (K)	Refs.
Nb _{0.22-0.15} Ti _{0.74-0.25} Zr _{0.53-0.07}	10.05, 9.1			Data given			1205 965
Nb _{0.222} U _{0.778}	1.98			>25			349 466
Nb _x V _{1-x}	5.19-3.97- 9.29			10.1- 19.9- 10.4		0	1979
Nb _{1-x} W _x				Data given			441
Nb _{1-0.98} Y _{0-0.02}	9.38-9.25			4.91- 2.91		4.2	1771
Nb _x Zr _{1-x}				35- 125			218 289 399 268 847 465 321 383 455
Nb _{0.9-0.15} Zr _{0.1-0.85}				123- 44		0	686
Nb _{0.75} Zr _{0.25}	10.6, 11.1			81.9, 83.4		0	975 420 600 597 368 406 310
Nb _{0.66} Zr _{0.33}				>83		4.2	597 429
Nb _{0.5} Zr _{0.5}	10.8			92		0	739 429 1301 466 441
Nb _{~0.4} Zr _{~0.6}				123		0	686
Nb _{0.25} Zr _{0.75}				>87		4.2	429 441
Nb _{0.2} Zr _{0.8}		1.12	3.57	80		4.2	991 441
NbZr (Deposited 350, 360C, 3000-4000Å)	1.6-9.3			Data given			∇ 1275
O ₃ Rb _{0.33-0.20} W	2.15-2.90- <1.20-4.35			0.643- 1.290 -0.950		0	1882 1942# 1080
O ₃ Rb _{0.33} W	2.15			0.643		0	1882
O ₃ Rb _{0.30} W	2.90			1.290		0	1882
O ₃ SrTi ($n \sim 10^{20}$)	0.43 0.33	0.0049 0.00195		0.504 0.420		0 0	594 1005 611 770
O ₃ SrTi ($n \sim 10^{20}$)	0.43	0.0044		0.300		0.15	594#
O ₃ SrTi ($n \sim 10^{20}$)	0.33	0.0012		0.180		0.19	594#
O ₃ SrTi ($n \sim 10^{20}$)	0.43	0.0013		0.070		0.39	594#
O ₃ SrTi ($n \sim 10^{20}$)	0.33	0.00045		0.004		0.315	594# 1005
P (P=170-220 kbar)	5.8~5.6			~4.8- >10		0	786

TABLE 5. (Cont'd). Critical Magnetic Fields H_{c1} , H_{c2} and H_{c3} of Superconductive Materials
(Mainly Type II) NOTE: Magnetic fields in kilooersteds.

Material	T_c (K)	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs} (K)	Refs.
Pb				Data given	Data given		430 322 666 1287 586 357
Pb (In porous media, 32, 58 Å)	7.049, 7.150			96, 55		0	1642
Pb (800 Å) (3700 Å)				4.5, 12.2 1.28, 10.80		1.6	▽752 ▽985 ▽1124 ▽1268
Pb (1070 Å) (7000 Å)				1.43, 0.64		4.2	▽1644 ▽672
Pb (Deposited 4.2K, 300-450 Å)				5-22		0	▽1739
$Pb_{1-x}Sb_x$				>0.7-19		4.2	458 589
$Pb_{0.965}Sn_{0.035}$		0.53		~0.56			322 457
$Pb_{0.871}Sn_{0.129}$		0.45		~1.1			322
$Pb_{0.57}Sn_{0.43}$	7.45			1.5		1.3	1917
$Pb_{0.36}Sn_{0.64}$	7.75			2.036		1.3	1917
$Pb_{0.28}Sn_{0.72}$	7.05			0.832		1.3	1917
PbTe	5.3-5.34			Data given			669
$Pb_{0.5-1}Tl_{0.5-0.008}$		0.15- 0.55		2.1- 0.7		4.22	080 356 401
$Pb_{1-0.26}Tl_{0-0.74}$	7.20-3.68			2-6.96		0	649
$Pb_{0.99}Tl_{0.01}$			0.82 (0K)		1.6 0.906	1.6 4.2	586 979 666
$Pb_{0.97}Tl_{0.03}$					1.415	4.2	586 866
$Pb_{0.965}Tl_{0.035}$		0.8	1.2	1.5		0	919
$Pb_{0.96}Tl_{0.04}$	7.10	0.586 0.029		1.00 0.039		3.50 6.98	1710 653#
$Pb_{0.95}Tl_{0.05}$			0.35	1.048, 1.02	1.844	4.2	586 322 653#
$Pb_{0.91}Tl_{0.09}$				1.691	2.974	4.2	586
$Pb_{0.85}Tl_{0.15}$	6.73			4.5		0	653#
$Pb_{0.83}Tl_{0.17}$				2.58	4.404	4.2	586
$Pb_{0.77}Tl_{0.23}$				2.927	4.751	4.2	586
$Pb_{0.73}Tl_{0.27}$	6.43		0.76	~6 5.2 (1.7K)		0	1200

TABLE 5. (Cont'd). Critical Magnetic Fields H_{c1} , H_{c2} and H_{c3} of Superconductive Materials
 (Mainly Type II) NOTE: Magnetic fields in kilooersteds.

Material	T_c (K)	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs} (K)	Refs.
$Pb_{0.696}Tl_{0.304}$		0.145		~2.9			322
$Pb_{0.6}Tl_{0.4}$		0.0964	0.33	2.884		4.2	1434 403
$PtTi_3$	0.486			3.45		0	707
Re (Deposited 78K, 500-600K)	1.7-2.2			Data given			∇1881
$Re_{0.26}W_{0.74}$				>30			289
$Rh_{0.14}Zr_{0.86}$	11.1			80		4.2	1858
$S_{1.2}Se_{0.8}Ta$	3.9			112, 13 75, 92		2.34	1262
$SSeTa$	3.7			19, 11 54, 74		2.2	1262
$S_{0.8}Se_{1.2}Ta$	3.9			16.7 110.4 45		2.9 2.34 2.9	1262
$SSeTa$ (pyridine)	1.5			12.6 14.0 19.1		1.1 0.9 1.1	1262
S_2Ta (pyridine)	3.25			14.9 >150 11.4 >66		1.4 2.0	1262 1027 1027 1262
Sb (Prepared 120 kbar; and below 77K)	2.6-2.7			4.4		1.55	520
$Sb_{0.05}Sn_{0.95}$ (weight fraction)	3.75			0.358		1.3	1917
$Sc_{0.01-0.6}V_{0.99-0.4}$	5.5-7.04- 6.8			Data given			1698
SiV_3		0.55					316 317
SiV_3				250 228		0 4.2	787
SiV_3 (Diffusion layers, wires)	16.9, 16.86			235, 230		0	877 880# 1075 310 406
SiV_3 (1000 to 100,000Å)	14.85- ~16.61			~105		10	∇716 ∇1645
Sn (In porous media, 31Å, 39Å)	4.936, 4.248			54, 39		0	1642
Sn (Deposited 4.2K)	3.7-4.44 (Deformed)			40-50		4.2	∇1877 405
Sn (650-2000Å, 100-600Å grain size)	3.84-4.66			~5 Max.		3	∇1967 ∇723 ∇1268 ∇1645

TABLE 5. (Cont'd). Critical Magnetic Fields H_{c1} , H_{c2} and H_{c3} of Superconductive Materials (Mainly Type II) NOTE: Magnetic fields in kilooersteds.

Material	T_c (K)	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs} (K)	Refs.
SnTa ₃	8.35 (High order)			72.5		4.2	581
	6.2 (Low order)			15.5		4.2	
SnTa ₃	7.0 Max.			50 Max.		4.2	1462 1362
SnTe (n=7.5-20x10 ²⁰)	0.034- 0.214	0.0005- 0.0019	0.001- 0.0105	~0.005- 0.09		0	1022
SnTe (n=20x10 ²⁰)				0.0775		0.079 0.043	687
SnTe (n=16.5x10 ²⁰)				0.052		0.063 0.020	687
SnTe (n=12.5x10 ²⁰)		0.00043		0.005		0.068	687
SnTe (n=10.5x10 ²⁰)				0.0052		0.015 0.012	687
Sn _{0.65} Ti _{0.35} (Pressure preparation)	6-7.1			3.46		4.2	900
Sr (Deposited 4.2K, 100Å)	3.7			5.77		0	7710
Ta (99.95%)		0.425 0.325 0.275 0.090		1.850 1.425 1.175 0.375	Data given (1393)	1.30 2.27 2.66 3.72	519 1393
Ta (300Å)	3.16			26		1.3	7719
Ta _{1-0.3} Ti _{0-0.7}				1-93- 65		4.2	1797 252 289 321 299 429
Ta _{0.65-0} Ti _{0.35-1}	4.4-7.8			14-138			252
Ta _{0.53} Ti _{0.47}				93, 86		4.2	1797 1391 874 466
Ta _{0.63} Ti _{0.30} Zr _{0.07}				77		4.2	1391
Ta ₁₋₀ V ₀₋₁	4.33-2.73- 5.7		0.769- 0.573- 1.336			0	1307
Ta _{1-0.9} Zr _{0-0.1}				Data given			441
Tc (Monocrystal)	7.46	1.16	1.55	3.12		0	1130; 1161; 1133
Tc	7.32			3.47 3.71		0	1537
Tc _{0.95} V _{0.05}	10.99			3.5		0	1133
Tc _{0.90} V _{0.10}	11.32			3.5		0	1133

TABLE 5. (Cont'd). Critical Magnetic Fields H_{c1} , H_{c2} and H_{c3} of Superconductive Materials
 (Mainly Type II) NOTE: Magnetic fields in kilooersteds.

Material	T_c (K)	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs} (K)	Refs.
$Tc_{0.80V_{0.20}}$	11.24			42.3		0	1138
$Tc_{0.75V_{0.25}}$	11.24, ~7.6 11.07			34.8 23.7		0	1138
$Tc_{0.7V_{0.3}}$	8.82 6.41			14.0 31.7		0	1138
$Tc_{0.65V_{0.35}}$	4.49			21.4		0	1138
$Tc_{0.7V_{0.3}}$	7.0-8.3 (Precipitate) 7.0-6.6			6-11 37-4	Data given	0	1791
$Tc_{0.6-0.3W_{0.4-0.7}}$	7.88-5.75			43.5- 7.5		4.2	524
Te (99.999%) (~57 kbar)	~3.3	0.25				0	510
Te_3Tl_5 ($n > 2 \times 10^{21}$)	2.19-2.23			~1.7		1.2	848
Ti					2.7	4.2	688
$Ti_{0.775V_{0.225}}$	4.7	0.024		~22 (arc cast) 172		4.2 0	616 838 584 218
$Ti_{0.75V_{0.25}}$				~34 (arc cast) ~36 (cold rolled)		4.2 4.2	616 289 616 399
		0.029		199		0	584
$Ti_{0.6V_{0.4}}$	7.0			110 109 86		1.18 2.18 4.2	878 600
$Ti_{0.516V_{0.484}}$	7.20	0.062		~28		4.2	600 466 455 874
$Ti_{0.415V_{0.585}}$	7.49	0.078		~25		4.2	600 441#
$Ti_{0.12V_{0.88}}$				17.3	28.1	4.2	688
$Ti_{0.09V_{0.91}}$				14.3	16.4	4.2	688
$Ti_{0.06V_{0.94}}$				8.2	12.7	4.2	688
$Ti_{0.03V_{0.97}}$				3.8	6.8	4.2	688
Tl (In porous media, 32Å, 58Å)	2.649, 2.612			48, 21		0	1642
Tl (Deposited 4.2K) (Deformed)	2.42-3.15			~45 Max.		4.2	∇1877
$Tl_{1-0.7Sb_{0-0.3}}$	2.905-~5.3- 4.198	0.18- 0.46- 0.29		0.86- ~7.3- 3.9		0	1378

TABLE 5. (Cont'd). Critical Magnetic Fields H_{c1} , H_{c2} and H_{c3} of Superconductive Materials
(Mainly Type II) NOTE: Magnetic fields in kilooersteds.

Material	T_c (K)	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs} (K)	Refs.
U (1-9 kbar)				0.25- 1.0			1416
V (RRR=430)	5.43		1.408	2.68		0	1719 1162
V	5.17	0.72	1.34	0.745(4.2K) 4.58		0	1935 917 1106 548 1515
V	5.06	0.70	1.33	5.5		0	917# 617
V	4.68	0.36	1.16	8.0		0	917# 1979
V (RRR=720)		0.26		0.40	0.595	4.726	1549
V (RRR=140)	5.385			[111]3.17 [110]2.99 [001]2.86		0	1639
V(100-20,400Å)				Data given			∇1444
V_2Zr				103		4.2	1189
$V_{0.1-0.9}Zr_{0.9-0.1}$	6.5-8.3- 7.6			28-100- 62		4.2	889
$V_{0.4}Zr_{0.6}$	~7.8			~110		4.2	889
$V_{0.39}Zr_{0.61}$	≈5.9	0.238 0.165				1.05 3.5	678
$V_{0.06-0.09}Zr_{0.94-0.91}$	7.0-<4.2			~18- ~25		4.2	1306
W (~2000Å)	1.7-4.1			>34		1	∇671

7. Bibliography

- [1] Eisenstein, J., *Rev. Mod. Phys.* **26**, 277 (1954).
- [2] Alekseevskii, N. E., *Zh. Eksp. Teor. Fiz.* **18**, 101 (1948).
- [3] Alekseevskii, N. E., *Zh. Eksp. Teor. Fiz.* **20**, 863 (1950).
- [4] Alekseevskii, N. E., *Zh. Eksp. Teor. Fiz.* **19**, 671 (1949).
- [5] Alekseevskii, N. E., *Zh. Eksp. Teor. Fiz.* **23**, 484 (1952).
- [6] Alekseevskii, N. E., *Zh. Eksp. Teor. Fiz.* **27**, 125 (1954).
- [7] Alekseevskii, N. E., *Zh. Eksp. Teor. Fiz.* **23**, 610 (1952).
- [8] Alekseevskii, N. E., Brandt, N. B., and Kostina, T. I., *Izv. Akad. Nauk SSSR Ser. Fiz.* **16**, 233 (1952).
- [9] Ziegler, W. T., Young, R. A., and Floyd, A. L., *J. Amer. Chem. Soc.* **75**, 1215 (1953).
- [10] Hardy, G. F., and Hulm, J. K., *Phys. Rev.* **93**, 1004 (1954).
- [11] Matthias, B. T., and Hulm, J. K., *Phys. Rev.* **87**, 799 (1952).
- [12] Kurti, N., and Simon, F., *Proc. Roy. Soc. (London)* **A151**, 610 (1935).
- [13] Guttman, L., and Stout, J. W., *Proc. of Low Temp. Conf.*, NBS, March (1951), p. 65.
- [14] Reynolds, J. M., and Lane, C. T., *Phys. Rev.* **79**, 405 (1950).
- [15] DeHaas, W. J., Van Aubel, E., and Voogd, J., *Commun. Kamerlingh Onnes Lab.* **18**, 197a, 197c, (1929).
- [16] Wexler, A., Corak, W. S., *Phys. Rev.* **85**, 85 (1952).
- [17] Mendoza, E., and Thomas, J. G., *Proc. of Inter. Low Temp. Phys. Conf. Oxford, England (August 1951)*, and *Phil. Mag.* **42**, 291 (1951).
- [18] Ziegler, W. T., and Young, R. A., *Proc. of Inter. Low Temp. Phys. Conf. Oxford, England (August 1951)*, pp. 124-125.
- [19] Matthias, B. T., *Phys. Rev.* **87**, 380 (1952).
- [20] Meissner, W., Franz, H., and Westerhoff, H., *Z. Phys.* **75**, 521 (1932).
- [21] Chandrasekar, B. S., and Hulm, J. K., *J. Phys. Chem. Solids* **7**, 259 (1958).
- [22] Anderson, G. S., Legvold, S., and Spedding, F. H., *Phys. Rev.* **109**, 243 (1958).
- [23] Goodman, B. B., *Nature.* **167**, 111 (1951).
- [24] Seidel, G., and Keesom, P. H., *Phys. Rev.* **112**, 1083 (1958).
- [25] Matthias, B. T., Corenzwit, E., and Zachariassen, W. H., *Phys. Rev.* **112**, 89 (1958).
- [26] Meissner, W., *Phys. Rev.* **109**, 686 (1958).
- [27] Hein, R. A., Henry, W. E., and Wolcott, N. M., *Phys. Rev.* **107**, 1517 (1957).
- [28] Matthias, B. T., and Corenzwit, E., *Phys. Rev.* **107**, 1558 (1957).
- [29] Hulm, J. K., and Goodman, B. B., *Phys. Rev.* **106**, 659 (1957).
- [30] Hein, R. A., and Steele, M. G., *Phys. Rev.* **105**, 877 (1957).
- [31] Hein, R. A., *Phys. Rev.* **102**, 1511 (1956).
- [32] Matthias, B. T., and Corenzwit, E., *Phys. Rev.* **100**, 626 (1955) and (B.T.M. Int. Conf. on Low Temp. Physics Proc., Paris 1955, p. 570).
- [33] Matthias, B. T., *Phys. Rev.* **97**, 74 (1955).
- [34] Matthias, B. T., Geballe, T. H., Geller, S., and Corenzwit, E., *Phys. Rev.* **95**, 1435 (1954).
- [35] Matthias, B. T., Corenzwit, E., and Miller, C. E., *Phys. Rev.* **93**, 1415 (1954).
- [36] Love, W. F., *Phys. Rev.* **92**, 236 (1953).
- [37] Matthias, B. T., *Phys. Rev.* **92**, 874 (1953).
- [38] Matthias, B. T., *Phys. Rev.* **91**, 413 (1953).
- [39] Matthias, B. T., *Phys. Rev.* **90**, 487 (1953).
- [40] Ziegler, W. T., and Young, R. A., *Phys. Rev.* **90**, 115 (1953).
- [41] Wood, E. A., and Compton, V. B., *Acta Cryst.* **11**, 429 (1958).
- [42] Hardy, G. F., and Hulm, J. K., *Phys. Rev.* **89**, 884 (1953).
- [43] Matthias, B. T., and Hulm, J. K., *Phys. Rev.* **89**, 439 (1953).
- [44] Stout, J. W., and Guttman, L., *Phys. Rev.* **88**, 703 (1952), also *Proc. Nat'l. Bur. Standards Symp. on Low Temp. Physics (1951)*.
- [45] Daunt, J. G., and Smith, T. S., *Phys. Rev.* **88**, 309 (1952).
- [46] Hennig, G., and Meyer, L., *Phys. Rev.* **87**, 439 (1952).
- [47] Roberts, L. D., and Dabbs, J. W. T., *Phys. Rev.* **86**, 628 (1952).
- [48] Hulm, J. K., and Matthias, B. T., *Phys. Rev.* **82**, 273 (1951).
- [49] Horn, F. H., Bruckzch, W. F., Jr., Ziegler, W. T., and Andrews, D. H., Jr., *Phys. Rev.* **61**, 738 (1942).
- [50] Zhuravlev, N. N., *Zh. Eksp. Teor. Fiz.* **32**, 1305 (1957); translation, *Sov. Phys. JETP* **5**, 1064 (1957).
- [51] Zhuravlev, N. N., and Kertes, L., *Zh. Eksp. Teor. Fiz.* **32**, 1313 (1957); translation, *Sov. Phys. JETP* **5**, 1073 (1957).
- [52] Zhuravlev, N. N., *Zh. Eksp. Teor. Fiz.* **34**, 827 (1957); translation, *Sov. Phys. JETP* **7**, 571 (1958).
- [53] Zhuravlev, N. N., Mingazin, T. A., Zhdanov, G. S., *Zh. Eksp. Teor. Fiz.* **34**, 820 (1958); translation *Sov. Phys. JETP* **7**, 566 (1958).
- [54] Geller, S., and Matthias, B. T., *J. Phys. Chem. Solids* **4**, 156 (1958).
- [55] Glagoleva, V. P., and Zhdanov, G. S., *Zh. Eksp. Teor. Fiz.* **30**, 248 (1956); translation, *Sov. Phys. JETP* **3**, 155 (1956).
- [56] Alekseevskii, N. E., and Lifanov, I. I., *Zh. Eksp. Teor. Fiz.* **30**, 405 (1956); translation, *Sov. Phys. JETP* **3**, 294 (1956).
- [57] Zhuravlev, N. N., Zhdanov, G. S., *Zh. Eksp. Teor. Fiz.* **28**, 228 (1955); translation, *Sov. Phys. JETP* **1**, 91 (1955).
- [58] Geller, S., *J. Amer. Chem. Soc.* **77**, 2641 (1955).
- [59] Alekseevskii, N. E., Zhdanov, G. S., and Zhuravlev, N. N., *Zh. Eksp. Teor. Fiz.* **28**, 237 (1955); translation, *Sov. Phys. JETP* **1**, 99 (1955).
- [60] Alekseevskii, N. E., and Caidukov, Yu. P., *Eksp. Teor. Fiz.* **25**, 383 (1953).
- [61] Glagoleva, V. P., and Zhdanov, G. S., *Zh. Eksp. Teor. Fiz.* **25**, 248 (1953).
- [62] Glagoleva, V. P., and Zhdanov, G. S., *Zh. Eksp. Teor. Fiz.* **26**, 337 (1954).
- [63] Rogener, H., *Phys.* **132**, 446 (1952).
- [64] Darby, J., Hatton, J., and Rollin, B. V., *Proc. Phys. Soc. (Lond.)* **A63**, 1181 (1950).
- [65] Hatton, J., Rollin, B. V., and Seymour, E. F. W., *Proc. Phys. Soc. (Lond.)* **A64**, 667 (1951).
- [66] Justi, E., and Vieweg, G., *Naturwiss.* **36**, 343 (1949).
- [67] Young, R. A., and Ziegler, W. T., *J. Amer. Chem. Soc.* **74**, 5251 (1952).
- [68] Ziegler, W. T., *J. Chem. Phys.* **16**, 838 (1948).
- [69] Meissner, W., and Franz, H., *Z. Physik* **65**, 30 (1930); *Naturwiss.* **18**, 418 (1930).
- [70] DeHaas, W. J., Van Aubel, E., and Voogd, J., *Proc. Acad. Sci. Amsterdam* **32**, 715 (1929).
- [71] DeHaas, W. J., Van Aubel, E., and Voogd, J., *Proc. Acad. Sci. Amsterdam* **33**, 258 (1930).
- [72] DeHaas, W. J., and Van Alphen, P. M., *Commun. Kamerlingh-Onnes Lab.* **19**, 212e (1929-1931).
- [73] DeHaas, W. J., and DeBoer, J., *Proc. Kon. Akad. Amsterdam* **35**, 128 (1932).
- [74] DeHaas, W. J., and Casimir-Jonker, J. M., *Proc. Kon. Akad. Amsterdam* **38**, 2 (1935).
- [75] Meissner, W., *Z. Phys.* **58**, 570 (1929).
- [76] Meissner, W., *Z. Phys.* **64**, 581 (1930).
- [77] Buckel, W., and Hilsch, R., *Z. Phys.* **128**, 324 (1950).
- [78] Barth, N., *Z. Phys.* **142**, 58 (1955).
- [79] Selmaier, A., *A. Phys.* **141**, 550 (1955).
- [80] Schubnikow, L. W., Chotkewitsch, W. I., Schepelev, J. D., and Rjabinin, J. N., *Phys. Z. Sowjetunion* **10**, 165 (1936).
- [81] Lazarev, B. G., and Nakhutin, I. E., *J. Phys. (U.S.S.R.)* **6**, 116 (1942); also in *Zh. Eksp. Teor. Fiz.* **12**, 43 (1942).
- [82] Rjabinin, J. N., and Schubnikow, L. W., *Phys. Z. Sowjetunion* **7**, 122 (1935).
- [83] Meissner, W., Franz, H., and Westerhoff, H., *Ann. Phys.* **13**, 505, 967 (1932).
- [84] Meissner, W., Franz, H., and Westerhoff, H., *Ann. Phys.* **17**, 593 (1933).

- [85] Clusius, K., *Z. Elektrochem.* **38**, 312 (1932).
- [86] McLennan, J. C., Allen, J. F., and Wilhelm, J. O., *Phil. Mag.* **13**, 1196 (1932).
- [87] DeHaas, W. J., Van Aubel, E., and Voogd, J., *Communications Kamerlingh-Onnes Laboratory* **18**, 197d (1928-1930).
- [88] Allen, J. F., *Phil. Mag.* **16**, 1005 (1933).
- [89] Meissner, W., Franz, H., and Westerhoff, H., *Ann. Phys. (LPZ)* **13**, 505 (1932).
- [90] DeHaas, W. J., and Voogd, J., *Communications Kamerlingh-Onnes Laboratory* **18**, 199c (1928-1930).
- [91] Onnes, K., *Communication Kamerlingh-Onnes Laboratory* **13**, 133d, (1913-1914).
- [92] Berman, A., Zemansky, M. W., and Boorse, H. A., *Phys. Rev.* **109**, 70 (1958).
- [93] Matthias, B., Compton, V. B., Suhl, H., and Corenzwit, E., *Phys. Rev.* **115**, 1597 (1959).
- [94] Weger, M., Silbernagel, B. G., and Greiner, E. S., *Phys. Rev. Letters* **13**, 521 (1964).
- [95] Buckel, W., *Naturwiss.* **42**, 451 (1955).
- [96] Lautz, G., and Schroder, E., *Z. Naturforsch.* **11a**, 517 (1956).
- [97] Horn, F. H., and Ziegler, W. T., *J. Amer. Chem. Soc.* **69**, 2762 (1947). See also ref. [49].
- [98] Meudelssohn, K., and Moore, J. R., *Royal Soc. Lond. Proc.* **151A**, 334 (1935).
- [99] McLennan, J. C., Allen, J. F., Wilhelm, J. O., *Phil. Mag.* **10**, 500 (1930).
- [100] Atoji, M., Schirber, J. E., and Swenson, C. A., *J. Chem. Phys.* **31**, 1628 (1959).
- [101] Lazarev, B. G., Sudovtsov, A. I., and Smirnov, A. P., *Zh. Eksp. Teor. Fiz.* **33**, 1059 (1957); translation, *JETP* **6**, 816 (1958).
- [102] Lam, D. J., Darby, J. R., Jr., Downey, J. W., and Norton, L. J., *Nature* **192**, 744 (1961).
- [103] Alekseevskii, N. E., and Migunov, L., *J. Phys. (U.S.S.R.)* **11**, 95 (1947).
- [104] Sharvin, G., *J. Phys. (U.S.S.R.)* **9**, 350 (1945).
- [105] Andronikashvili, E. L., *Compt. Rend. (Doklady) Acad. Sci. USSR* **31**, 541 (1941).
- [106] Shubnikov, L. V., Chotkevich, V. I., Shepelev, I. D., and Ryabinin, Yu. N., *Physik. Z. Sowjetunion Arb. Gebiete Tiefer Temp. Special No. 39-66* (June 1936).
- [107] Zhuravlev, N. N., and Zhdanov, G. S., *Zh. Eksp. Teor. Fiz.* **25**, 485, 621, 751 (1953).
- [108] Pearson, W. B., *Handbook of Lattice Spacing and Structures of Metals*, Pergamon Press, New York (1958).
- [109] McLennan, J. C., Allen, J. F., and Wilhelm, J. O., *Roy. Soc. Canada Trans.* **24**, 25 (1930).
- [110] Schroder, E., *Z. Naturforsch.* **12a**, 247 (1957).
- [111] McLennan, J. C., Allen, J. F., and Wilhelm, J. O., *Roy. Soc. Can. Trans.* **24**, 53 (1930).
- [112] McLennan, J. C., Allen, J. F., and Wilhelm, J. O., *Roy. Soc. Can. Trans.* **25**, 13 (1931).
- [113] McLennan, J. C., Howlett, L. E., and Wilhelm, J. O., *Roy. Soc. Can. Trans.* **23**, 287 (1929).
- [114] Schirber, J. E., and Swenson, C. A., *Phys. Rev. Letters* **2**, 296 (1959); *Phys. Rev.* **123**, 1115 (1961).
- [115] Matthias, B. T., Suhl, H., and Corenzwit, E., *Phys. Rev. Letters* **1**, 92, 152E (1958).
- [116] Matthias, B. T., Suhl, H., and Corenzwit, E., *Phys. Rev. Letters* **1**, 449 (1958).
- [117] Matthias, B. T., *Prog. in Low Temp. Physics* **II**, 138 (1957).
- [118] Gygax, G., *Helvetica Physica Acta* **31**, 287 (1958).
- [119] Justi, E., *Leitfähigkeit und Leitungsmechanismus. Fester Stoffe*, Göttingen, Vandenhoeck, and Ruprecht (1948), pp. 187-270.
- [120] Shoenberg, D., *Nature* **142**, 874 (1938).
- [121] Busch, G., and Muller, J., *Helvetica Physica Acta* **31**, 291 (1958).
- [122] Jones, R. E., and Ittner, W. R., *Phys. Rev.* **113**, 1520 (1959).
- [123] Meissner, W., and Franz, H., *Z. Phys.* **63**, 558 (1930).
- [124] Geller, S., Matthias, B. T., and Goldstein, R., *J. Amer. Chem. Soc.* **77**, 1502 (1955).
- [125] Corenzwit, E., *J. Phys. and Chem. Solids* **9**, 93 (1959).
- [126] Hake, R. R., Leslie, D. H., and Berlincourt, T. G., *Bull. Amer. Phys. Soc. II* **4**, 362 (1959); *Phys. Rev.* **127**, 170 (1962).
- [127] Compton, V. B., and Matthias, B. T., *Acta Cryst.* **12**, 651 (1959).
- [128] Matthias, B. T., Wood, E. A., Corenzwit, E., and Bala, V. B., *J. Phys. Chem. Solids* **1**, 188 (1956).
- [129] Zhuravlev, N. N., Stepanova, A. A., and Zyuzin, N. I., *Zh. Eksp. Teor. Fiz.* **37**, 880 (1959); translation, *Sov. Phys. JETP* **37**, 627 (1960).
- [130] Bucher, E., Busch, G., and Muller, J., *Helv. Phys. Acta* **32**, 318 (1959) and private communication.
- [131] Mikhailov, Yu. G., Nikulin, E. I., Reinov, H. M., and Smirnov, A. P., *Zhur. Tekhn. Fiz.* **24**, 931 (1959); translation *Sov. Phys.-Tech. Phys.* **4**, 844 (1959).
- [132] Carruthers, J. A., and Connolly, A., *Low Temp. Physics and Chem. (Madison, Wisc. 1958)*, pp. 276-279.
- [133] White, G. K., and Woods, S. B., *Can. J. Phys.* **35**, 892 (1957).
- [134] Hulm, J. K., and Chandrasekhar, B. S., *Low Temp. Physics and Chem. (Madison, Wisc., 1958)*, pp. 280-281.
- [135] Wolcott, S. C., Norman, M., and Heim, R. A., *Low Temp. Physics and Chem. (Madison, Wisc., 1958)*, pp. 282-284.
- [136] Hulm, J. K., *Phys. Rev.* **98**, 1539 (1955).
- [137] Wood, E. A., and Matthias, B. T., *Acta Cryst.* **9**, 534 (1956).
- [138] Matthias, B. T., *J. Phys. and Chem. of Solids* **10**, 342 (1959).
- [139] Jansen, H. G., and Saur, E. J., ref. 176, pp. 379-382.
- [140] Matthias, B. T., and Geller, S., *J. Phys. Chem. Solids* **4**, 318 (1958).
- [141] Geller, S., *Acta Cryst.* **8**, 15 (1955).
- [142] Wood, E. A., Compton, V. B., Matthias, B. T., and Corenzwit, E., *Acta Cryst.* **11**, 604 (1958).
- [143] Reeber, M. D., *Phys. Rev.* **117**, 1476 (1960).
- [144] Lazarev, B. G., Sudovtsov, A. I., and Semenenko, E. E., *Zh. Eksp. Teor. Fiz.* **37**, 1461 (1959); translation, *Sov. Phys. JETP* **10**, 1035 (1960).
- [145] Zhuravlev, N. N., and Zhdanov, G. S., *Izvest. Akad. Nauk, SSSR Ser. Fiz.* **20**, 708 (1956).
- [146] Matthias, B. T., and Zachariasen, W. H., *J. Phys. and Chem. of Solids* **7**, 98 (1958).
- [147] Lange, F., *Monatsberichte der Deutschen Akademie der Wissenschaften Zu Berlin* **1**, 408 (1959); **2**, 167 (1960).
- [148] Cochran, J. F., and Mapother, D. E., *Phys. Rev.* **111**, 132 (1958).
- [149] Wiedemann, W., *Z. Phys.* **151**, 307 (1958).
- [150] Pearson, W. B., and Templeton, I. M., *Phys. Rev.* **109**, 1094 (1958).
- [151] Wolcott, N. M., and Heim, R. A., *Phil. Mag.* **3**, 591 (1958).
- [152] Buckel, W., *Int. Conf. on Low Temp. Phys. and Chem. (Madison, Wisc. 1958)*, pp. 326-329.
- [153] Alekseevski, N. E., Zhdanov, G. S., and Zhuravlev, N. N., *Vestnik Moskov. Univ., Ser. Mat. Mekh. Astron., Fiz. i Khim.* **14**, No. 3, 113 and 117 (1959).
- [154] Alekseevski, N. E., Bondar, V. V., and Polukarov, Yu. M., *Zh. Eksp. Teor. Fiz.* **38**, 294 (1960); translation, *Sov. Phys. JETP* **11**, 213 (1960).
- [155] Zhdanov, G. S., Zhuravlev, N. N., Kusmin, R. N., and Soklakov, A. I., *Kristallographia* **3**, 373 (1958); translation, *Sov. Phys.-Crystallography* **3**, 374 (1958).
- [156] Phillips, N. E., *Phys. Rev. Letters* **1**, 363 (1958).
- [157] Berlincourt, T. G., *Low Temp. Physics and Chem., (Univ. of Wisc. Press, Madison, Wisc., 1958)*, pp. 492-496.
- [158] Zhuravlev, N. N., Zhdanov, G. S., and Alekseevskii, N. E., *Vestnik Moskov Univ., Ser. Mat. Mekh. Astron. Fiz. i Khim.* **14**, 117 (1959).
- [159] Decker, D. L., Mapother, D. E., and Shaw, R. W., *Phys. Rev.* **112**, 1888 (1958).
- [160] Maxwell, E., and Lutes, O. S., *Phys. Rev.* **95**, 333 (1954).
- [161] Aschermann, G., and Justi, E., *Phys. Z.* **43**, 207 (1942).

- [162] Blanpain, R., *Bull. Classe. Sci. Acad. Roy. Belg.* **47**, 750 (1961).
- [163] Daunt, J. G., and Cobble, J. W., *Phys. Rev.* **92**, 507 (1953).
- [164] Stritzker, B., and Becker, J., *Phys. Letters* **51A**, 147 (1975).
- [165] Shoenberg, D., *Proc. Cambridge Phil. Soc.* **36**, 84 (1940).
- [166] Smith, T. S., Gager, W. B., and Daunt, J. G., *Phys. Rev.* **89**, 654 (1953).
- [167] Steele, M. C., and Hein, R. A., *Phys. Rev.* **92**, 243 (1953).
- [168] Smith, T. S., and Daunt, J. G., *Phys. Rev.* **88**, 1172 (1952).
- [169] Serahim, D. P., *Solid-State Electronics* **1**, 368 (1960).
- [170] Calverley, A., Mendelssohn, K., and Rowell, P. M., *Cryogenics* **2**, 26 (1961).
- [171] Matthias, B. T., *J. Appl. Phys.* **31**, 23S (1960).
- [172] Hein, R. A., Falge, R. L., Matthias, B. T., and Corenzwit, E., *Phys. Rev. Letters* **2**, 500 (1959).
- [173] Matthias, B. T., Compton, V. B., and Corenzwit, E., *J. Phys. Chem. Solids* **19**, 130 (1961).
- [174] Bozorth, R. M., Williams, A. J., and Davis, D. D., *Phys. Rev. Letters* **5**, 148 (1960).
- [175] Milne, J. C. C., *Phys. Rev.* **122**, 387 (1961).
- [176] Swenson, C. A., and Schirber, J. E., *Proc. VII Inter. Conf. on Low Temp. Phys. Univ. Toronto Press*, 1961, p. 338. Also, *Phys. Rev.* **123**, 1115 (1961).
- [177] Goodman, B. B., Hillairet, J., Veysie, J. J., and Weil, L., *ref.* **176**, p. 350.
- [178] Hake, R. R., *ref.* **176**, p. 359.
- [179] Strongin, M., Fairbank, H. A., *ref.* **176**, p. 377.
- [180] Shaw, R. W., Mapother, D. E., and Hopkins, D. C., *Phys. Rev.* **120**, 88 (1960).
- [181] Blaughner, R. D., unpublished results.
- [182] Blaughner, R. D., and Hulm, J. K., *J. Phys. Chem. Solids* **19**, 134 (1961).
- [183] Buckel, W., Hilsch, R., and G. V. Minnigerode., *Acta Phys. Acad. Sci. Hung.* **8**, 5 (1957).
- [184] Geballe, T. H., Matthias, B. T., Hull, G. W., Jr., and Corenzwit, E., *Phys. Rev. Letters* **6**, 275 (1961).
- [185] Cody, G. D., Hanak, J. J., McConville, G. T., and Rosi, F. D., *ref.* **176**, p. 382.
- [186] Bozorth, R. M., Matthias, B. T., and Davis, D. D., *ref.* **176**, p. 385.
- [187] Bozorth, R. M., Davis, D. D., and Williams, A. J., *Phys. Rev.* **119**, 1570 (1960).
- [188] Budnick, J. I., *Phys. Rev.* **119**, 1578 (1960).
- [189] Arp, V. D., Kropshot, R. H., Wilson, J. H., Love, W. F., and Phelan, R., *Phys. Rev. Letters* **6**, 452 (1961).
- [190] DeSorbo, W., and Nichols, G. E., *Bull. Amer. Phys. Soc. II*, **6**, 267 (1961); *Phys. Rev.* **132**, 107 (1963).
- [191] Von Minnigerode, G., *Z. Phys.* **154**, 442 (1959).
- [192] Netzel, R. G., and Dillinger, J. R., *ref.* **176**, p. 389.
- [193] Cochran, J. F., and Mapother, D. E., *Phys. Rev.* **121**, 1688 (1961).
- [194] Hake, R. R., Leslie, D. H., and Berlincourt, T. G., *J. Phys. Chem. Solids* **20**, 177 (1961).
- [195] Cheng, C. H., Wei, C. T., and Beck, P. A., *Phys. Rev.* **120**, 426 (1960).
- [196] Devlin, C. E., and Corenzwit, E., *Phys. Rev.* **120**, 1964 (1960).
- [197] Alekseevskii, N. E., Bondar, V. V., and Polukarov, Yu. M., *Zh. Eksp. Teor. Fiz.* **38**, 294 (1960); translation, *Sov. Phys. JETP* **11**, 213 (1960).
- [198] Zhuravlev, N. N., Zdanov, G. S., and Kushmin, R. N., *Kristallografia* **5**, 553 (1960); translation, *Sov. Phys.-Crys.* **5**, 532 (1961).
- [199] Chester, P. F., and Jones, G. O., *Phil. Mag.* **44**, 1281 (1953).
- [200] Matthias, B. T., Suhl, H., and Corenzwit, E., *J. Phys. Chem. Solids* **13**, 156 (1960).
- [201] Suhl, H., Matthias, B. T., and Corenzwit, E., *J. Phys. Chem. Solids* **11**, 346 (1959).
- [202] Compton, V. B., Corenzwit, E., Maita, J. P., Matthias, B. T., and Morin, F. J., *Phys. Rev.* **123**, 1567 (1961).
- [203] Brandt, N. B., and Ginzberg, N. I., *Zh. Eksp. Teor. Fiz.* **39**, 1554 (1960); Translation, *Sov. Phys. JETP* **12**, 1082 (1961); *Fiz. Tverdogo Tela (USSR)* **3**, 3461 (1961); translation, *Sov. Phys.-Solid State* **3**, 2510 (1962).
- [204] Wernick, J. H., and Matthias, B. T., *J. Chem. Phys.* **34**, 2194 (1961).
- [205] Androes, C. M., and Knight, W. D., *Phys. Rev.* **121**, 779 (1961).
- [206] Bryant, C. A., and Keesom, P. H., *Phys. Rev.* **123**, 491 (1961).
- [207] Hulm, J. K., Blaughner, R. D., Geballe, T. H., and Matthias, B. T., *Phys. Rev. Letters* **7**, 302 (1961).
- [208] Snider, J. W., Wiederhold, E. W., and Spry, R. J., *Bull. Amer. Phys. Soc.* **6**, 92 (1961).
- [209] Quinn, D. J., and Budnick, J. I., *Phys. Rev.* **123**, 466 (1961).
- [210] Toxen, A. M., *Phys. Rev.* **123**, 442 (1961); **127**, 382 (1962); and **124**, 1018 (1961).
- [211] Geballe, T. H., Matthias, B. T., Corenzwit, E., and Hull, G. W., Jr., *Phys. Rev. Letters* **8**, 313 (1962); and private communications.
- [212] Compton, V. B., and Matthias, B. T., *Acta Cryst.* **15**, 94 (1962).
- [213] Buckel, W., (with Bulow, H., and Hilsch, R.) *Z. Phys.* **138**, 136 (1954); **145**, 141 (1956); **138**, 109 (1954); **146**, 27 (1956); **154**, 474 (1959).
- [214] Buckel, W., *Naturwiss* **42**, 141 (1955).
- [215] Hilsch, R., and Martienssen, W., *Nuovo Cimento Suppl.* **7**, 480 (1958).
- [216] Blaughner, R. D., Hulm, J. K., and Matthias, B. T., unpublished results.
- [217] Blaughner, R. D., and Hulm, J. K., unpublished results.
- [218] Berlincourt, T. G., and Hake, R. R., *Phys. Rev. Letters* **9**, 293 (1962); *Bull. Amer. Phys. Soc.* **7**, 408 (1962).
- [219] Hopkins, D. C., and Mapother, D. E., *Bull. Amer. Phys. Soc.* **7**, 175 (1962).
- [220] Zavaritskii, N. V., *Doklady Akademii Nauk SSSR* **85**, 749 (1952).
- [221] Hulm, J. K., *Phys. Rev.* **94**, 1390 (1954).
- [222] Schubert, K., and Rosler, U. *Z. Metallk.* **41**, 298 (1950).
- [223] Hein, R. A., Gibson, J. W., Matthias, B. T., Geballe, T. H., and Corenzwit, E., *Phys. Rev. Letters* **8**, 408 (1962).
- [224] Matthias, B. T., Geballe, T. H., Compton, V. B., Corenzwit, E., and Hull, G. W., Jr., *Phys. Rev.* **120**, 588 (1962).
- [225] Rose, R. M., and Wulff, J., *J. Appl. Phys.* **33**, 2394 (1962).
- [226] Meaden, G. T., unpublished work; also see Lee, J. A., Meaden, G. T., and Mendelssohn, K., *Proc. Phys. Soc.* **74**, 671, (1959).
- [227] Anderson, G. S., Leguold, S., and Spedding, F. H., *Low Temperature Physics and Chemistry*, Univ. of Wisconsin Press, Madison, Wisc. (1958). Page 279.
- [228] Hein, R. A., unpublished results.
- [229] Cendron, M. F., and Jones, R. E., *J. Phys. Chem. Solids* **23**, 405 (1962). (*Bull. Amer. Phys. Soc.* **6**, 122 (1961).)
- [230] Picklesimer, M. L., and Sekula, S. T., *Phys. Rev. Letters* **9**, 254 (1962).
- [231] Hirshfeld, A. T., Leupold, H. A., and Boorse, H. A., *Phys. Rev.* **127**, 1501 (1962).
- [232] Chou, C., White, D., and Johnston, H. L., *Phys. Rev.* **109**, 788 (1958).
- [233] White, D., Chou, C., and Johnston, H. L., *Phys. Rev.* **109**, 797 (1958).
- [234] Gschneider, K. A., Jr., and Matthias, B. T., *Rare Earth Research*, E. V. Kleber, ed., p. 158, the MacMillan Co., N.Y. (1961).
- [235] Lock, J. M., *Proc. Phys. Soc.* **70B**, 476 (1957).
- [236] Geballe, T. H., and Matthias, B. T., *IBM J. Res. Dev.* **6**, 256 (1962).
- [237] Zhdanov, G. S., and Kuzmin, R. N., *Kristallografiya* **6**, 872 (1961); translation, *Sov. Phys.-Cryst.* **6**, 704 (1962).
- [238] Geller, S., *Acta Cryst.* **15**, 1198 (1962).
- [239] Geballe, T. H., Matthias, B. T., Compton, V. B., Corenzwit, E., and Hull, G. W., Jr., *Phys. Rev.* **129**, 182 (1963).
- [240] Matthias, B. T., *IBM J. Res. Dev.* **6**, 250 (1962).
- [241] Herbststein, F. H., *Advances in Physics* **10**, 313 (1961).

- [242] Jansen, H. C., *Z. Phys.* **162**, 275 (1961).
- [243] Haley, F. C., and Andrews, D. H., *Phys. Rev.* **89**, 821 (1953).
- [244] Calverly, A., and Rose-Innes, A. C., *Proc. Roy. Soc. (London)* **255A**, 267 (1960).
- [245] Justi, E., *Neue Phys. Blatter* **8**, 207 (1946).
- [246] Matthias, B. T., private communication. Ref. 513 in *Rare Earth Alloys* by Gschneidner, K. A., Van Nostrand and Co. (1961).
- [247] Bozorth, R. M., Matthias, B. T., Suhl, H., Corenzwit, E., and Davis, D. D., *Phys. Rev.* **115**, 1595 (1959).
- [248] DeSorbo, W., and Nichols, C. E., unpublished work.
- [249] Finnemore, D. K., and Mapother, D. E., *Phys. Rev. Letters* **9**, 288 (1962).
- [250] Horwitz, N. H., and Bohm, H. V., *Phys. Rev. Letters* **9**, 313 (1962).
- [251] Reif, F. and Woolf, M. A., *Phys. Rev. Letters* **9**, 315 (1962).
- [252] Berlincourt, T. G., and Hake, R. R., unpublished results. Also see ref. 290, 466.
- [253] Hulm, J. K., and Blaughner, R. D., *Phys. Rev.* **123**, 1569 (1961).
- [254] Raetz, K., and Saur, E., *Z. Phys.*, **169**, 315 (1962).
- [255] Arrhenius, G. O. S., and Merriam, M. F., unpublished results.
- [256] Coles, B. R., Merriam, M. F., and Fisk, Z., *J. Less-Common Metals* **5**, 41 (1963).
- [257] Merriam, M. F., Jensen, M. A., and Coles, B. R., *Phys. Rev.* **130**, 1719 (1963).
- [258] Merriam, M. F., unpublished results.
- [259] Raub, C., and Geballe, T. H., unpublished.
- [260] Raub, C., and Merriam, M. F., unpublished.
- [261] Merriam, M. F., and Von Herzen, M., *Phys. Rev.* **131**, 637 (1963).
- [262] Raub, C., unpublished.
- [263] Lautz, G., and Schneider, D., *Z. Naturforsch.* **17a**, 54 (1962).
- [264] Lautz, G., and Schneider, D., *Z. Naturforsch.* **16a**, 1368 (1961).
- [265] Coles, B. R., *IBM J. Res. Dev.* **6**, 68 (1962).
- [266] Blaughner, R. D., Taylor, A., and Hulm, J. K., *IBM J. Res. Dev.* **6**, 116 (1962).
- [267] Mapother, D. E., *IBM J. Res. Dev.* **6**, 77 (1961).
- [268] Hake, R. R., Berlincourt, T. G., and Leslie, D. H., *IBM J. Res. Dev.* **6**, 119 (1962).
- [269] Alekseevskii, N. E., *J. Phys. (USSR)* **9**, 350 (1945).
- [270] Matthias, B. T., Geballe, T. H., and Compton, V. B., *Rev. Modern Physics* **35**, 1 (1963). Errata: **35**, 414 (1963).
- [271] Giorgi, A. L., Szklarz, E. G., Storms, E. K., Bowman, A. L., and Matthias, B. T., *Phys. Rev.* **125**, 837 (1962).
- [272] Keesom, W. H., *Commum. Kamerlingh Onnes Lab.*, **21**, 230a (1933-36).
- [273] Meissner, W., and Voigt, B., *Ann. Phys.* **7**, 892 (1930).
- [274] Bucher, E., and Muller, J., *Helv. Phys. Acta* **34**, 410 (1961).
- [275] Blaughner, R. D., Chandrasekhar, B. S., Hulm, J. K., Corenzwit, E., and Matthias, B. T., *J. Phys. Chem. Solids* **21**, 252 (1961).
- [276] Bucher, E., Heiniger, F., and Muller, J., *Helv. Phys. Acta* **34**, 843 (1961). See ref. [295].
- [277] Banus, M. D., Reed, T. B., Gatos, H. C., *J. Phys. Chem. Solids* **23**, 971 (1962).
- [278] Szklarz, E. G., and Giorgi, A. L., *Bull. Amer. Phys. Soc.* **7**, 176 (1962).
- [279] Compton, V. B., *Acta Cryst.* **11**, 446 (1958) and Matthias, B. T., and Corenzwit, E., private communication.
- [280] Matthias, B. T., private communications quoted in ref. [58].
- [281] DeHaas, W. J., Jurriaanse, T., *Proc. Acad. Sci. Amsterdam* **35**, 748 (1932).
- [282] Jurriaanse, T., *Z. Krist.* **90**, 322 (1935).
- [283] Matthias, B. T., Geballe, T. H., Corenzwit, E., and Hull, G. W., Jr., *Phys. Rev.* **129**, 1025 (1963).
- [284] Giorgi, A. L., and Szklarz, E. G., *Bull. Amer. Phys. Soc.* **7**, 176 (1962).
- [285] Geller, S., *Acta Cryst.* **15**, 713 (1962).
- [286] Kuzmin, R. N., and Zhdanov, G. S., *Kristallografiya* **5**, 869 (1960); translation, *Sov. Phys.-Cryst.* **5**, 830 (1961).
- [287] Zhdanov, G. S., and Kuzmin, R. N., *Kristallografiya* **6**, 872 (1961); translation, *Sov. Phys.-Cryst.* **6**, 704 (1962).
- [288] Henry, W. E., Betz, C., and Muir, H., *Bull. Amer. Phys. Soc.* **7**, 474 (1962); **7**, 621 (1962).
- [289] Hake, R. R., and Leslie, D. H., *Proc. 8th Inter. Congress on Low Temperature Physics (LT8)*, editor, Davies, R. D., paper 7.10.
- [290] Berlincourt, T. G., ref. [289], paper 7.9.
- [291] Lounasmaa, O. V., ref. [289], paper 5.3.
- [292] Geballe, T. H., and Matthias, B. T., ref. 289, paper 4.11.
- [293] Bucher, E., Muhcim, J., and Muller, J., ref. 289, paper 4.7.
- [294] Meissner, Hans, ref. [289], paper 3.7.
- [295] Bucher, E., Heiniger, F., and Muller, J., ref. [289], paper 4.8.
- [296] Hilsch, R., Von Minnigerode, G., and Schwidtal, K., see ref. [289], paper 4.9.
- [297] Van Beelen, H., DeBruyn Ouboter, R., Beenakker, J. J. M., and Taconis, K. W., see ref. [289], paper 3.10.
- [298] Hanak, J. J., Cody, G. D., Cooper, J. L., and Rayl, M., ref. [289], paper 7.15.
- [299] Hagner, R., and Saur, E., see ref. [289], paper 7.17.
- [300] Blaughner, R. D., Hulm, J. K., Rayne, J. A., Veal, B. W., and Hein, R. A., see ref. [289], paper 4.5.
- [301] Guggenheim, J., Hulliger, F., and Muller, J., *Helv. Phys. Acta* **34**, 408 (1961); **34**, 410 (1961).
- [302] Wolcott, N. M., *Conference de Physique des Basses Temperatures, (Paris 1956)*, p. 286.
- [303] Hart, H. R., Jr., and Roberts, R. W., unpublished results.
- [304] Bundy, F. P., and Kasper, J. S., *Science* **139**, 338 (1963).
- [305] Wentorf, R. H., and Kasper, J. S., *Science* **139**, 338 (1963).
- [306] Aschermann, G., Friederich, E., Justi, E., and Kramer, J., *Phys. Zeits.* **42**, 349 (1941).
- [307] Dunaev, J. A., C. R. (Doklady) *Akad. Sci. (URSS)* **55**, 21 (1947).
- [308] McLennan, J. C., Niven, C. D., and Wilhelm, J. O., *Phil. Mag.* **6**, 678 (1928).
- [309] Doidge, P. R., *Phil. Trans. Roy. Soc. (London)* **248**, 553 (1956).
- [310] Wernick, J. H., Morin, F. J., Hsu, S. L., Dorsi, D., Maita, J., and Kunzler, J. E., *High Magnetic Fields*, ed. by Kolm, Lax, Bitter, and Mills; John Wiley and Sons, p. 609. Also see *Phys. Rev. Letters* **5**, 149 (1960), *J. Appl. Phys.* **32**, 325 (1961).
- [311] Reed, T. B., Gatos, H. C., LaFleur, W. J., and Roddy, J. T., *Metallurgy of Advanced Electronic Materials*, ed. Brock, G. E. (Interscience, New York, 1963), p. 71.
- [312] Carpenter, J. H., *J. Phys. Chem.* **67**, 2141; 2144 (1963) and dissertation, Purdue, 1956 (Univ. Microfilms, Ann Arbor, Mich., Pub. No. 14382).
- [313] Thompson, C. T., and Gerber, J. F., *Solid-State Electronics* **2**, 259 (1961).
- [314] Muller, J., *Helv. Phys. Acta* **32**, 141 (1959).
- [315] Hagner, R., and Saur, E., *Naturwiss.* **49**, 444 (1962).
- [316] Swartz, P. S., *Phys. Rev. Letters* **9**, 448 (1962) and personal communication.
- [317] Hauser, J. J., *Phys. Rev. Letters* **9**, 423 (1962).
- [318] Lynton, E. A., Serin, B., and Zucker, M., *J. Phys. Chem. Solids* **3**, 165 (1957).
- [319] Chanin, G., Lynton, E. A., and Serin, B., *Phys. Rev.* **114**, 719 (1959).
- [320] Seraphim, D. P., Chiou, C., and Quinn, D. J., *Acta Met.* **9**, 861 (1961).
- [321] Wolgast, R. C., Hernandez, H. P., and Aron, P. R., *Proc. of Cryogenic Eng. Conf., UCLA, 1962. Advances in Cryogenic Eng. Vol. 8*.
- [322] Livingston, J. D., *Phys. Rev.* **129**, 1943 (1963).
- [323] Alekseevskii, N. E., Savitsky, E. M., Baron, V. V., and Efimov, Yu. V., *Dok. Akad. Nauk (CCCP)* **145**, 82 (1962).
- [324] Hinrichs, C. H., and Swenson, C. A., *Phys. Rev.* **123**, 1106 (1961).
- [325] Jennings, L. D., and Swenson, C. A., *Phys. Rev.* **112**, 31 (1958).
- [326] Alekseevskii, N. E., and Michailov, N. N., *Zh. Eksp. Teor.*

- Fiz. **41**, 1809 (1961); translation, *Sov. Phys. JETP* **14**, 1287 (1962).
- [327] Blaugher, R. D., and Hulm, J. K., *Phys. Rev.* **125**, 474 (1962).
- [328] Muller, J., and Risi, M., *Helv. Phys. Acta* **33**, 459 (1960).
- [329] Mapother, D. E., *Phys. Rev.* **126**, 2021 (1962).
- [330] Cheng, C. H., Gupta, K. P., Van Reuth, E. C., and Beck, P. A., *Phys. Rev.* **126**, 2030 (1962).
- [331] Bean, C. P., Doyle, M. V., and Pincus, A. G., *Phys. Rev. Letters* **9**, 93 (1962).
- [332] Douglas, D. H., Jr., and Blumberg, R. H., *Phys. Rev.* **127**, 2038 (1962).
- [333] Sameonov, C. V., *Silicides, Their Utilization and Technology*. Acad. Science Ukrainian SSR, Kiev, 1959, p. 21.
- [334] Autler, S. H., Rosenblum, E. S., and Gooen, K. H., *Phys. Rev. Letters* **9**, 489 (1962).
- [335] Hake, R. R., *Phys. Rev.* **123**, 1986 (1961).
- [336] Otter, F. A., and Mapother, D. E., *Phys. Rev.* **125**, 1171 (1962).
- [337] Mould, R. D., and Mapother, D. E., *Phys. Rev.* **125**, 33 (1962).
- [338] Love, W. F., Callen, E., and Nix, F. C., *Phys. Rev.* **87**, 844 (1952).
- [339] Curry, M. A., Legvold, S., and Spedding, F. H., *Phys. Rev.* **117**, 953 (1960).
- [340] Lynton, E. A., and McLachlan, D., *Phys. Rev.* **126**, 40 (1962).
- [341] Gayley, R. L., Jr., Lynton, E. A., and Serin, B., *Phys. Rev.* **126**, 43 (1962).
- [342] Seraphim, D. P., and Connell, R. A., *Phys. Rev.* **116**, 606 (1959).
- [343] Cook, D. B., Zemansky, M. W., and Boorse, H. A., *Phys. Rev.* **79**, 1021 (1950).
- [344] Cook, D. B., Zemansky, M. W., and Boorse, H. A., *Phys. Rev.* **80**, 737 (1950).
- [345] Lynton, E. A., and Serin, B., *Phys. Rev.* **112**, 70 (1958).
- [346] Golik, V. R., Lazarev, B. G., and Khotkevich, V. I., *Zh. Eksp. Teor. Fiz.* **19**, 202 (1949).
- [347] Rhoderick, E. H., *Proc. Roy. Soc.* **267**, 231 (1962).
- [348] Grassman, P., and Rinderer, L., *Helv. Phys. Acta* **27**, 309 (1954).
- [349] Berlincourt, T. G., *J. Phys. Chem. Solids* **11**, 12 (1959).
- [350] Whitehead, C. S., *Proc. Roy. Soc.* **238A**, 175 (1956).
- [351] Opitz, W., *Z. Phys.* **141**, 263 (1955).
- [352] Matthias, B. T., and Corenzwit, E., *Phys. Rev.* **94**, 1069 (1954).
- [353] Fortmann, J., and Buckel, W., *Z. Phys.* **162**, 93 (1961).
- [354] Barth, N., *Z. Phys.* **148**, 646 (1957).
- [355] Reed, T. B., and Gatos, H. C., *J. Appl. Phys.* **33**, 2657 (1962).
- [356] Bon Mardion, G., Goodman, B. B., and Lacaze, A., *Phys. Letters* **2**, 321 (1962).
- [357] Druyvesteyn, W. F., and Van Ooijen, D. J., *Phys. Letters* **2**, 328 (1962).
- [358] Berghout, C. W., *Phys. Letters* **1**, 292 (1962).
- [359] Muller, C., and Saur, E., *Z. Phys.* **170**, 154 (1962).
- [360] Mendelssohn, K., and Shiffman, C. A., *Proc. Roy. Soc.* **255A**, 199 (1960).
- [361] Guenault, A. M., *Proc. Roy. Soc.* **262A**, 420 (1961).
- [362] Renard, M., *Physica* **24**, S154 (1958).
- [363] Hein, R. A., and Falge, R. L., Jr., *Physica* **24**, S176 (1958).
- [364] Matthias, B. T., Peter, M., Williams, H. J., Clogston, A. M., Corenzwit, E., and Sherwood, R. C., *Phys. Rev. Letters* **5**, 542 (1960).
- [365] Kunzler, J. E., Buehler, E., Hsu, F. S. L., and Wernick, J. H., *Phys. Rev. Letters* **6**, 89 (1961).
- [366] Busch, G., and Muller, J., *Helv. Phys. Acta* **30**, 230 (1957).
- [367] Blumberg, R. H., and Seraphim, D. P., *J. Appl. Phys.* **33**, 163 (1962).
- [368] Aron, P. R., and Hitchcock, H. C., *J. Appl. Phys.* **33**, 2242 (1962).
- [369] Hein, R. A., Gibson, J. W., and Blaugher, R. D., *Bull. Am. Phys. Soc.* **7**, 322 (1962).
- [370] Rothwarf, F., Dickson, C. C., Parthe, E., and Boller, H., *Bull. Am. Phys. Soc.* **7**, 322 (1962).
- [371] Cochran, J. F., *Ann. Phys. (U.S.A.)* **19**, 186 (1962).
- [372] Goodman, B. B., *Phys. Letters* **1**, 215 (1962).
- [373] Sevastyanov, B. K., *Zh. Eksp. Teor. Fiz.* **40**, 52 (1961); translation, *Sov. Phys. JETP* **13**, 35 (1961).
- [374] Croft, A. J., *Phil. Mag.* **44**, 289 (1953).
- [375] Seraphim, D. P., Novick, D. T., and Budnick, J. I., *Acta Met.* **9**, 446 (1961).
- [376] Ruhl, W., *Z. Phys.* **157**, 247 (1959); **159**, 428 (1960).
- [377] Schwidtal, K., *Z. Phys.* **158**, 563 (1960).
- [378] Caswell, H. L., *J. Appl. Phys.* **32**, 2641 (1961).
- [379] Caswell, H. L., *J. Appl. Phys.* **32**, 105 (1961).
- [380] Franck, J. P., and Martin, D. L., *Can. J. Phys.* **39**, 1320 (1961).
- [381] Van Aubel, E., DeHaas, W. J., and Voogd, J., *Commun. Kamerlingh Onnes Lab.* **18**, 193c (1928-30).
- [382] Doulat, J., Goodman, B. B., Renard, M., and Weill, L., *Compt. Rend.* **249**, 2017 (1959).
- [383] Kunzler, J. E., *Rev. Mod. Phys.* **33**, 499 (1961).
- [384] Hsu, F. S. L., White, P. R., Buehler, E., and Kunzler, J. E., quoted in ref. 383.
- [385] Shimashek, E., *Acta Phys. Polon.* **20**, 553, 563 (1961).
- [386] Saur, E., and Schult, P., *Z. Phys.* **167**, 170 (1962).
- [387] Khukhareva, I. S., *Zh. Eksp. Teor. Fiz.* **41**, 1728 (1961); translation, *Sov. Phys. JETP* **14**, 526 (1962).
- [388] Zavaritskii, N. V., *Dokl. Akad. Nauk. SSSR* **86**, 687 (1952).
- [389] Bryant, C. A., and Keesom, P. H., *J. Chem. Phys.* **35**, 1149 (1961).
- [390] Goodman, B. B., and Mendoza, E., *Phil. Mag.* **42**, 594 (1951).
- [391] Scott, R. B., *J. Res. Nat. Bureau Standards* **41**, 581 (1948).
- [392] Ginzberg, N. I., and Shalnikov, A. I., *Zh. Eksp. Teor. Fiz.* **37**, 399 (1959); translation, *Sov. Phys. JETP* **10**, 285 (1960).
- [393] Marchand, J. F., and Venema, A., *Phillips Res. Rep.* **14**, 427 (1959).
- [394] Raub, Ch. J., and Compton, V. B., *Z. Anorg. Allg. Chem.* **332**, 5 (1964).
- [395] Lazarev, B. G., Semenenko, E. E., and Sudovtsov, A. I., *Zh. Eksp. Teor. Fiz.* **40**, 105 (1961); translation, *Sov. Phys. JETP* **13**, 75 (1961).
- [396] Zhuravlev, N. N., Zhdanov, G. S., and Smirnova, E. M., *Fiz. Metal Metalloved.* **13**, 62 (1962); translation, *Physics Metals Metallography* **13** (1), 55 (1962).
- [397] Giorgi, A. L., Szklarz, E. G., Storms, E. K., and Bowman, A. L., *Phys. Rev.* **129**, 1524 (1963).
- [398] Rosler, U., and Shubert, K., *Z. Metallk.* **42**, 395 (1951); *Naturwiss.* **38**, 331 (1951).
- [399] Hake, R. R., Berlincourt, T. G., and Leslie, D. H., *Superconductors*, ed. by Tanenbaum, M., and Wright, W. V., (Interscience, Pub., N.Y. 1962), pp. 53-58.
- [400] LeBlanc, M.A.R., and Little, W. A., p. 362 of ref. 176.
- [401] Shubnikov, N. V., Khotkevich, V. I., Shepeliv, Yu. D., Rjabinin Yu. N., *Zh. Eksp. Teor. Fiz.* **7**, 221 (1937); (some data quoted in *J. Phys. Chem. Solids* **2**, 199 (1957)).
- [402] DeHaas, W. J., and Voogd, J., *Comm. Kamerlingh Onnes Lab.* **19**, 208b (1930).
- [403] DeHaas, W. J., and Voogd, J., *Comm. Kamerlingh Onnes Lab.* **19**, 214b (1931).
- [404] Meissner, W., *Erg. Der Exakt. Naturw.* **11**, 219 (1932).
- [405] Lazarev, B., and Galkin, A., *J. Phys. (USSR)* **8**, 371 (1944).
- [406] Wernick, J. H., *Superconductors*. (Interscience Pub., N.Y. 1962), p. 35.
- [407] Van Ooijen, D. J., Van Vucht, J. H. N., and Druyvesteyn, W. F., *Phys. Letters* **3**, 128 (1962).
- [408] Darby, J. B., Jr., and Ziegler, S. T., *J. Phys. Chem. Solids* **23**, 1825 (1962).
- [409] Galasso, F., and Pyle, J., *Acta Cryst.* **16**, 228 (1963).
- [410] Rose-Innes, A. C., unpublished results.
- [411] Zhuravlev, N. N., and Smirnova, E. M., *Kristallografiya* **7**, 787 (1962); translation, *Sov. Phys.-Cryst.* **7**, 636 (1963).
- [412] Muller, J., private communication.
- [413] Hulliger, F., and Muller, J., *Phys. Letters* **5**, 226 (1963).
- [414] Hulliger, F., *Nature* **198**, 382 (1963).
- [415] Bucher, E., Heiniger, F., Muheim, J., and Muller, J., *Rev. Mod. Phys.* **36**, 146 (1964).
- [416] Muller, J., and Reinmann, R., to be published.
- [417] Bender, D., Bucher, E., and Muller, J., *Phys. Kondens. Materie* **1**, 225 (1963).
- [418] Bucher, E., Heiniger, F., and Muller, J., personal communication. Also see ref. 557.
- [419] Galasso, F., Bayles, B., and Soehle, S., *Nature* **198**, 984 (1963).
- [420] Galasso, F., unpublished results.
- [421] Martin, D. L., *Proc. Phys. Soc.* **78**, 1489 (1961).

- [422] Phillips, N. E., and Matthias, B. T., *Phys. Rev.* **121**, 105 (1961).
- [423] Hudson, R. P., *Proc. Phys. Soc.* **A64**, 751 (1951).
- [424] Darnell, A. J., Libby, W. F., Bommel, H. E., and Tittman, D. R., *Science* **139**, 1301, 1301 (1963).
- [425] Zhuravlev, N. N., *Kristallografiya* **3**, 503 (1958); translation, *Sov. Phys.-Cryst.* **3**, 506 (1958).
- [426] Yasukochi, K., unpublished results. (Atomic Eng. Res. Inst., Nihon Univ.)
- [427] Alekseevskii, N. E., and Mikhailov, N. N., *Zh. Eksp. Teor. Fiz.* **43**, 2110 (1962); translation, *Sov. Phys. JETP* **16**, 1493 (1963).
- [428] Heaton, J. W., and Rose-Innes, A. C., *Appl. Phys. Letters* **2**, 196 (1963).
- [429] Sekula, S. T., Boom, R. W., and Bergeron, C. J., *Appl. Phys. Letters* **2**, 102 (1963).
- [430] Seraphim, D. P., D'Heurle, F. M., and Heller, W. R., *Appl. Phys. Letters* **1**, 93 (1962).
- [431] Hulm, J. K., Hein, R. A., Gibson, J. W., and Miller, R. C., *Pro. International Conference on Superconductivity*, Hamilton, N.Y. 1963.
- [432] Hein, R. A., Gibson, J. W. and Blaughner, R. D., *Phys. Rev. Letters* **11**, 6 (1963).
- [433] Alekseevskii, N. E., Samsonov, G. V., and Shulitsova, O. I., *Zh. Eksp. Teor. Fiz.* **44**, 1413 (1963); translation, *Sov. Phys. JETP* **17**, 950 (1963).
- [434] Hart, J. R., Jr., Jacobs, I. S., Kolbe, C. L., and Lawrence, P. E., in *High Magnetic Fields*. Kohu, Lax, Bitner, and Mills, eds. (Wiley, N.Y. 1961), p. 584.
- [435] Geiser, R., and Goodman, B. B., *Phys. Letters* **5**, 30 (1963).
- [436] Boato, G., Gallinaro, G., and Rizzuto, C., *Phys. Letters* **5**, 20 (1963).
- [437] Brandt, N. B., and Ginzburg, N. I., *Zh. Eksp. Teor. Fiz.* **44**, 478 (1963); translation, *Sov. Phys. JETP* **17**, 326 (1963).
- [438] Andrianov, V. V., Zenkevich, V. B., Sokolov, V. I., Sychev, V. V., Tovma, V. A., and Fedotov, L. N., *Dokl. Akad. Nauk SSSR* **169**, 316 (1966); translation *Sov. Phys. - Doklady* **11**, 619 (1967).
- [439] Chandrasekhar, B. S., Hulm, J. K., and Jones, C. K., *Phys. Letters* **5**, 18 (1963).
- [440] Buckel, W., Dummer, G., and Gey, W., *Z. Angew. Phys.* **14**, 703 (1962).
- [441] DeSorbo, W., *Phys. Rev.* **130**, 2177 (1963).
- [442] Bommel, H. E., Darnell, A. J., Libby, W. F., Tittmann, R. R., and Yencha, A. J., *Science* **141**, 714 (1963).
- [443] Suits, J. C., *Phys. Rev.* **131**, 588 (1963).
- [444] Gaule, G. K., Adhart, O., and Ross, R. L., *VIII Int. Congress on Low Temp. Phys.*, London (1962), pp. 162-5.
- [445] Merriam, M. F., *Rev. Mod. Physics* **36**, 152 (1964).
- [446] Hein, R. A., and Gibson, J. W., *Phys. Rev.* **131**, 1105 (1963).
- [447a] Holleck, H., Nowotny, H., and Benesovsky, F., *Monatsh. Chem.* **94**, 359 (1963).
- [447b] Holleck, H., Nowotny, H., and Benesovsky, F., *Monatsh. Chem* **94**, 473 (1963).
- [447c] Holleck, H., Nowotny, H., and Benesovsky, F., *Monatsh. Chem.* **94**, 477 (1963).
- [448] Van Gurp, G. J., *Phys. Letters* **5**, 303 (1963).
- [449] Arrhenius, G., Raub, Ch. J., Hamilton, D. C., and Matthias, B. T., *Phys. Rev. Letters* **11**, 313 (1963).
- [450] Toxen, A. M., and Burns, M. J., *Phys. Rev.* **130**, 1808 (1963).
- [451] Justi, E., *Elektrotechn. Z.* **63**, 577 (1942).
- [452] Hein, R. A., Gibson, J. W., and Blaughner, R. D., *Rev. Mod. Phys.* **36**, 149 (1964).
- [453] Joiner, W. C. H., and Blaughner, R. D., *Rev. Mod. Phys.* **36**, 67 (1964).
- [454] Matthias, B. T., Geballe, T. H., Compton, V. B., Corenzwit, E., and Hull, G. W., Jr., *Rev. Mod. Phys.* **36**, 155 (1964).
- [455] Jones, C. K., Hulm, J. K., and Chandrasekhar, B. S., *Rev. Mod. Phys.* **36**, 74 (1964).
- [456] Thomson, J., and Coles, B. R., unpublished results.
- [457] Livingston, J. D., *J. Appl. Phys.* **34**, 3028 (1963).
- [458] Livingston, J. D., *Acta Met.* **11**, 1371 (1963).
- [459] Buckel, W., Dummer, G., and Gey, W., *Phys. Kond. Materie* **1**, 67 (1963).
- [460] Koch, D., Otto, G., and Saur, E., *Phys. Letters* **4**, 292 (1963).
- [461] Gomes de Mesquita, A. H., Langereis, C., and Leenhouts, J. I., *Phillips Res. Repts.* **18**, 377 (1963).
- [462] Ohtsuka, Y., Shibuya, Y., and Fukuroi, T., *Science Repts. Tohoku Univ.* **15A**, 67 (1963).
- [463] Schwidtal, K., *Z. Phys.* **169**, 564 (1962).
- [464] Hein, R. A., Gibson, J. W., Pablo, M. R., and Blaughner, R. D., *Phys. Rev.* **129**, 136 (1963).
- [465] Morin, F. J., and Maita, J. P., *Phys. Rev.* **129**, 1115 (1963).
- [466] Berlincourt, T. G., and Hake, R. R., *Phys. Rev.* **131**, 140 (1963).
- [467] Lange, F. K., *Zh. Eksp. Teor. Fiz.* **42**, 42 (1962); translation, *Sov. Phys. JETP* **15**, 29 (1962).
- [468] Taylor, A., Kagle, B. J., and Doyle, N. J., *J. Less-Common Metals* **5**, 26 (1963).
- [469] Geballe, T. H., Matthias, B. T., Compton, V. B., Corenzwit, E., Hull, G. W., Jr., and Longinotti, L. D., *Phys. Rev.* **137**, A119 (1955).
- [470] Geller, S., and Hull, G. W., Jr., *Phys. Rev. Letters* **13**, 127 (1964).
- [471] Geller, S., McWhan, D. B., and Hull, G. W., Jr., *Science* **140**, 62-3 (1963).
- [472] Brandt, N. B., Berman, I. V., and Kurkin, Yu. P., *Zh. E.T.F. Pis. Red.* **20**, 20 (1974); translation *JEFT Lett.* **20**, 8 (1974).
- [473] Cody, G. D., Hanak, J. J., McConville, G. T., and Rosi, F. D., *RCA Rev.* **25**, 338-41 (1964).
- [474] Hulm, J. K., and Hardy, G., *Third Internat. Conf. on Low Temp. Phys. and Chem.*, Houston, Tex., Dec. 1953.
- [475] Caswell, H. L., *Solid State Comm* **2**, 323 (1964).
- [476] Neighbor, J. E., Cochran, J. F., and Shiffman, C. A., *Proc. 9th Inter. Conf. on Low Temp. Phys. Low Temp. Phys. LT9*, 479-81 (1965). (ed. Daunt, J. G., Edwards, D. O., Milford, F. J., and Yaqub, M.)
- [477] Bucher, E., Heininger, F., and Muller, J., see ref. [476], 482-486.
- [478] French, R. A., Lowell, J., and Mendelsohn, K., see ref. [476], 540-543.
- [479] Kunz, W., and Saur, E., see ref. [476], 581-583.
- [480] Gyax, S., Olsen, J. L., and Kropschot, R. H., see ref. [476], 587-590.
- [481] Miller, R. C., Hein, R. A., Gibson, J. W., Hulm, J. K., Jones, C. K., and Mazelsky, R., see ref. [476], 600-603.
- [482] Houston, B. B., Jr., Mazelsky, R., Miller, R. C., Hein, R. A., Gibson, J. W., and Allgaier, R. S., see ref. [476], 604-606.
- [483] Pastore, J. R., Shappirio, J. R., Gaule, G. K., Breslin, J. T., and Ross, R. L., see ref. [476], 612-615.
- [484] Adler, J. G., Ng, S. C., *Can. J. Phys.* **43**, 594 (1965).
- [485] Coles, G. W., Corsan, J. M., Buxton, A., and Lewis, B., *J. Less-Common Metals* **3**, 402 (1965).
- [486] Hamilton, D. C., Raub, C. J., Matthias, B. T., Corenzwit, E., and Hull, G. W., Jr., *J. Phys. Chem. Solids* **26**, 665 (1965).
- [487] Luo, H. L., Merriam, M. F., and Hamilton, D. C., *Science* **145**, 581 (1964).
- [488] Merriam, M. F., and Schreiber, D. S., *J. Phys. Chem. Solids* **24**, 1375 (1963).
- [489] Merriam, M. F., Sweedler, A. R., and Hamilton, D. C., *Bull. Am. Phys. Soc.* **9**, 268 (1964).
- [490] Falge, R. L. Jr., *Phys. Rev. Letters* **11**, 248 (1963).
- [491] Raub, Ch. J., Zachariassen, W. H., Geballe, T. H., and Matthias, B. T., *J. Phys. Chem. Solids* **24**, 1093 (1963).
- [492] Ziegler, S. T., *Phys. Rev.* **137**, A1438 (1965).
- [493] Johnson, R. T., Vilches, O. E., Wheatley, J. C. and Gyax, S., *Phys. Rev. Letters* **16**, 101 (1966).
- [494] Hannay, N. B., Geballe, T. H., Matthias, B. T., Andres, K., Schmidt, P., and Macnair, D., *Phys. Rev. Letters* **14**, 225 (1965).

- [495] Meaden, G. T., and Shigi, T., *Cryogenics* **4**, 90 (1964).
- [496] Johnston, J., Toth, L., Kennedy, K., and Parker, E., *Sol. State Commun.* **2**, 123 (1964).
- [497] Johnston, J., U. of Cal. Berkeley-Lawrence Rad. Lab. May 5, 1964 (UCRL-11390).
- [498] Matthias, B. T., Geballe, T. H., Willens, R. H., Corenzwit, E., and Hull, G. W., Jr., *Phys. Rev.* **139**, A1501 (1965).
- [499] Raub, Ch. J., and Zwicker, U., *Phys. Rev.* **137**, A142 (1965).
- [500] Sweedler, A. R., Raub, Ch. J., and Matthias, B. T., *Phys. Letters* **15**, 108 (1965).
- [501] Hein, R. A., Gibson, J. W., Mazelsky, R., Miller, R. C., and Hulm, J. K., *Phys. Rev. Letters* **12**, 320 (1964).
- [502] Bommel, H. E., Darnell, A. J., Libby, W. F., and Tittman, B. R., *Science* **139**, 1301 (1963).
- [503] Bond, W. L., Cooper, A. S., Andres, K., Hull, G. W., Geballe, T. H., and Matthias, B. T., *Phys. Rev. Letters* **15**, 260 (1965).
- [504] Fowler, R. D., Matthias, B. T., Asprey, L. B., Hill, H. H., Lindsay, J. D. G., Olsen, C. E., and White, R. W., *Phys. Rev. Letters* **15**, 860 (1965).
- [505] Gerstenberg, D., and Hall, P. M., *J. Electrochem. Soc.* **111**, 936 (1964).
- [506] Geller, S., Jayaraman, A., and Hull, G. W., Jr., *Appl. Phys. Letters* **4**, 35 (1964).
- [507] Banus, M. D., Hanneman, R. F., Strongin, M., and Goen, K., *Science* **142**, 662 (1963).
- [508] Killpatrick, D. H., *J. Phys. Chem. Solids* **25**, 1213 (1964).
- [509] Killpatrick, D. H., *J. Phys. Chem. Solids* **25**, 1499 (1964).
- [510] Matthias, B. T., and Olsen, J. L., *Phys. Letters* **13**, 201 (1964).
- [511] Merriam, M. F., *Phys. Letters* **9**, 100 (1964).
- [512] Hauser, J. J., and Theuerer, H. C., *Phys. Letters* **14**, 270 (1965).
- [513] Johnston, J., Toth, L., and Parker, E. R., UCRL-11317, pp. 133-137 (1964).
- [514] Pessall, N., Gupta, K. P., Cheng, C. H., and Beck, P. A., *J. Phys. Chem. Solids* **25**, 993 (1964).
- [515] Geller, S., Jayaraman, A., Hull, G. W. Jr., *J. Phys. Chem. Solids* **26**, 353 (1965).
- [516] Alekseevskii, N. E., and Mikheeva, M. N., *Zh. Eksp. Teor. Fiz.* **38**, 292 (1960); translation, *Sov. Phys. JETP* **11**, 211 (1960).
- [517] Anderson, D. E., Toth, L. E., Rosner, L. G., and Yen, C. M., *Appl. Phys. Letters* **7**, 90 (1965).
- [518] D'Yakov, I. G., Lazarev, B. G., Matsakova, A. A., and Ovcharenko, G. N., *Zh. Eksp. Teor. Fiz.* **46**, 831 (1964); translation, *Sov. Phys. JETP* **19**, 568 (1964).
- [519] Bots, G. J. C., Pals, J. A., Blaisse, B. S., DeJong, L. N. J., and Van-Engelen, P. P. J., *Physica* **31**, 1113 (1965).
- [520] McDonald, T. R. R., Gregory, E., Barberich, G. S., McWhan, D. B., Geballe, T. H., and Hull, G. W., Jr., *Phys. Letters* **14**, 16 (1965).
- [521] Caswell, H. L., *Phys. Letters* **10**, 44 (1964).
- [522] Zwicker, U., *Z. Metallkde, Dtsch.* **54**, 477 (1963).
- [523] Cape, J. A., *Phys. Rev.* **132**, 1486 (1963).
- [524] Autler, S. H., Hulm, J. K., and Kemper, R. S., *Phys. Rev.* **140A**, 1177 (1965).
- [525] Yun Lung Shen, L., Senozan, N. M., and Phillips, N. E., *Phys. Rev. Letters* **14**, 1025 (1965).
- [526] Gibson, J. W., and Hein, R. A., *Phys. Rev. Letters* **12**, 688 (1964).
- [527] Van Der Hoeven, B. J. C., Jr., and Keesom, P. H., *Phys. Rev.* **135**, A631 (1964).
- [528] Rabenau, A., and Berben, T. J., *Phys. Letters* **12**, 167 (1964).
- [529] Rairden, J. R., and Neugebauer, C. A., *Proc. Inst. Elect. Electronics Engrs.* **52**, 1234 (1964).
- [530] Raub, Ch. J., and Webb, G. W., *J. Less-Common Metals* **5**, 271 (1963).
- [531] Weber, R., *Phys. Rev.* **133**, A1487 (1964).
- [532] Artemenko, I. A., and Mikhailov, G. O., *Ukr. Fiz. Zh.* **9**, 1369 (1964).
- [533] Alekseevskii, N. E., *Zh. Eksp. Teor. Fiz.* **49**, 159 (1965); translation, *Sov. Phys. JETP* **22**, 114 (1966).
- [534] Bozorth, R. M., Holtzberg, F., and Methfessel, S., *Phys. Rev. Letters* **14**, 952 (1965). Also see *J. Appl. Phys.* **37**, 1433 (1966).
- [535] Raub, Ch. J., and Hamilton, D. C., *J. Less-Common Metals* **6**, 486-488 (1964).
- [536] Leslie, J. D., Cappelletti, R. L., Ginsburg, D. M., Finnemore, D. K., Spedding, F. H., and Beaudry, B. J., *Phys. Rev.* **134**, A309 (1964).
- [537] Phillips, N. E., *Phys. Rev.* **134**, A385 (1964).
- [538] Catterall, J. A., Williams, I., and Duke, J. F., *Brit. J. Appl. Phys.* **15**, 1369 (1964).
- [539] Banus, M. D., Vernon, S. N., and Gatos, H. C., *J. Appl. Phys.* **36**, 864 (1965).
- [540] Buckel, W., and Wittig, J., *Phys. Letters* **17**, 187 (1965).
- [541] Strongin, M., *Phys. Letters* **17**, 224 (1965).
- [542] Smith, T. F., *Phys. Rev.* **137**, A1435 (1965).
- [543] Rorer, D. C., Onn, D. G., and Meyer, H., *Phys. Rev.* **138**, A1661 (1965).
- [544] McConville, T., and Serin, B., *Phys. Rev. Letters* **13**, 365 (1964).
- [545] Batterman, B. W., and Barrett, C. S., *Phys. Rev. Letters* **13**, 390 (1964).
- [546] Olsen, J. L., *Cryogenics* **2**, 356 (1962).
- [547] Wittig, J., *Phys. Rev. Letters* **15**, 159 (1965).
- [548] Martin, R. B., and Rose-Innes, A. C., *Phys. Letters* **19**, 467 (1965).
- [549] Tittman, B., Hamilton, D., and Jayaraman, A., *J. Appl. Phys.* **35**, 732 (1964).
- [550] Lazarev, B. G., Semenenko, E. E., and Sudovtsov, A. I., *Zh. Eksp. Teor. Fiz.* **45**, 391 (1963); translation, *Sov. Phys. JETP* **18**, 270 (1964).
- [551] Brandt, N. B., and Ginzberg, N. I., *Zh. Eksp. Teor. Fiz.* **46**, 1216 (1964); translation *Sov. Phys. JETP* **19**, 823 (1964).
- [552] Raub, C. J., Compton, V. B., Geballe, T. H., Matthias, B. T., Maita, J. P., and Hull, G. W., Jr., *J. Phys. Chem. Solids* **26**, 2051 (1965).
- [553] Hechler, K., Saur, E., and Witzgall, H., *Z. Phys.* **205**, 400 (1967).
- [554] Heiniger, F., and Muller, J., *Phys. Rev.* **134**, A1407 (1964).
- [555] Lerner, E., and Daunt, J. G., *Phys. Rev.* **142**, 251 (1966).
- [556] Heiniger, F., *Phys. Kondens. Materie* **5**, 285 (1966).
- [557] Bucher, E., Heiniger, F., and Muller, J., *Phys. Kond. Materie* **2**, 210 (1964).
- [558] Shulishova, O. I., *Dissertatsiya Na Soiskanie Uchenoi Stepeni Kandidata Fiziko-Matematicheskikh Nauk, Institut Metallofiziki AN U.S.S.R., Kiev*, (1966).
- [559] Shulishova, O. I., *Khimicheskaya Svyazb V. Poluprovodnikakh i Termodinamika, Minsk, 1966*, pages 299-316.
- [560] Alekseevskii, N. E., Samsonov, G. V., and Shulishova, O. I., *Izv. Akad. Nauk U.S.S.R. Neorgan. Mat.* **3**, 61 (1967); translation, *Inorganic Materials* **3**, 49 (1967).
- [561] Shulishova, O. I., *Izv. Akad. Nauk Neorgan. Mat.* **2**(8), 1434 (1966); translation, *Inorganic Materials U.S.S.R.* **2**, 1225 (1966).
- [562] Aomine, T., Abe, H., and Shibuya, Y., *J. Phys. Soc. Japan* **20**, 282 (1965).
- [563] Arrhenius, G., Fitzgerald, R., Hamilton, D. C., Holm, B. A., Matthias, B. T., Corenzwit, E., Geballe, T. H., Hull, G. W., Jr., *J. Appl. Phys.* **35**, 3487 (1964).
- [564] Babiskin, J., Siebermann, P. G., Otto, G., and Saur, E., *Z. Phys.* **180**, 483 (1964).
- [565] Barnes, L. J., and Hake, R. R., *Phys. Rev.* **153**, 435 (1967).
- [566] Bucher, E., and Palmy, C., *Phys. Letters* **24A**, 340 (1967).
- [567] Bucher, E., Heiniger, F., Muller, J., and Spitzli, P., *Phys. Letters* **19**, 263 (1965).
- [568] Bucher, E., Laves, F., Muller, J., and Von Philipsborn, H., *Phys. Letters* **8**, 27 (1964).
- [569] Bucher, E., Muller, J., Olsen, J. L., and Palmy, C., *Cryogenics* **5**, 283 (1965).

- [570] Fowler, R. D., Lindsay, J. D. C., White, R. W., Hill, H. H., and Matthias, B. T., *Phys. Rev. Letters* **19**, 892 (1967).
- [571] Fink, H. J., Thorsen, A. C., Parker, E., Zackay, V. F., and Toth, L., *Phys. Rev.* **138**, A1170 (1965).
- [572] Heiniger, F., Bucher, E., and Muller, J., *Phys. Kondens. Materie* **5**, 243 (1966).
- [573] Toth, L. E., and Rudy, E., Johnston, J., and Parker, E. R., *J. Phys. Chem. Solids* **26**, 517 (1965).
- [574] Jensen, M. A., Matthias, B. T., and Andres, K., *Science* **150**, 1448 (1965).
- [575] Sweedler, A. R., Hulm, J. K., Geballe, T. H., and Matthias, B. T., *Phys. Letters* **19**, 82 (1965).
- [576] Knapp, G., and Merriam, M. F., *Phys. Rev.* **140**, A528 (1965).
- [577] Kloholm, E., and Chiou, C., *Acta Met.* **14**, 565 (1966).
- [578] Blumberg, W. E., Eisinger, J., Jaccarino, V., and Matthias, B. T., *Phys. Rev. Letters* **5**, 149 (1960).
- [579] Finnemore, D. K., and Mapother, D. E., *Phys. Rev.* **A140**, 507 (1965).
- [580] Reich, R., Thesis: "Etude des Proprietes Electricques et Supraconductrices de Metaux de Differentes Puretes" Paris, Ets Busson, (1966). Th. Doc. es S. Ph., 1966, Ser. 44582, No. 5429, p. 109, also Mem. Sc. Rev. Metallurg. **63**, 21 (1966).
- [581] Courtney, T. H., Pearsall, G. W., and Wulff, J., *J. Appl. Phys.* **36**, 3256 (1965).
- [582] Darnell, F. J., Bierstedt, P. E., Forshey, W. O., and Waring, R. K., Jr., *Phys. Rev.* **140A**, 1581 (1965).
- [583] Guts, Z. A., Kirvko, N. I., Morozova, V. K., Sidorova, T. A., and Fogel, A. A., *Zhur. Tech. Fiz.* **35** (9), 1675 (1965); translation, *Sov. Phys. Tech. Phys.* **10**, 1295-6 (1966).
- [584] Hake, R. R., *Phys. Rev.* **158**, 356 (1967).
- [585] Gubscr, D. U., dissertation, Dept. Physics, Univ. of Ill., Urbana, 1969.
- [586] Hart, H. R., Jr., and Swartz, P. S., *Phys. Letters* **10**, 40 (1964).
- [587] Hake, R. R., and Brammer, W. G., *Phys. Rev.* **133A**, 719 (1964).
- [588] Hechler, K., and Saur, E., *Z. Phys.* **205**, 392 (1967).
- [589] Chang, C.-J., Tsao, H.-W., and Kuan, W.-Y., *Acta Phys. Sin.* **20**, 568 (1964). *Sci. Sinica (Peking)* **14**, 306 (1965).
- [590] Olsen, C. E., Matthias, B. T., and Hill, H. H., *Bull. Amer. Phys. Soc.* **11**, 806 (1966).
- [591] Lazarev, B. G., Lazareva, L. S., Makarov, V. I., and Ignateva, T. A., *Zh. Eksp. Teor. Fiz.* **46**, 829 (1964); translation, *Sov. Phys. JETP* **19**, 566 (1964).
- [592] DeSorbo, W., *Phys. Rev.* **A140**, 914 (1965).
- [593] Courtney, T. H., Pearsall, G. W., and Wulff, J., *Trans. AIME.* **233**, 212 (1965).
- [594] Ambler, E., Colwell, J. H., Hosler, W. R., and Schooley, J. F., *Phys. Rev.* **148**, 280 (1966).
- [595] Abeles, B., Cohen, R. W., and Stowell, W. R., *Phys. Rev. Letters* **13**, 902 (1967).
- [596] Abeles, B., Cohen, R. W., and Cullen, G. W., *Phys. Rev. Letters* **17**, 632 (1966).
- [597] Benz, H., and Fischer, E., *Z. Angew. Math. Phys. (Schweiz)* **15**, 659 (1964).
- [598] Boato, G., Gallinaro, G., and Rizzuto, C., *Phys. Rev.* **148**, 353 (1966).
- [599] Bergmann, G., *Z. Phys.* **187**, 395 (1965).
- [600] Blaugher, R. D., *Phys. Letters* **14**, 181 (1965).
- [601] Blaugher, R. D., Hulm, J. K., and Yocom, P. N., *J. Phys. Chem. Sol.* **26**, 2037 (1965).
- [602] Bergmann, G., Hilsch, R., and Minnigerode, G. v., *Z. Naturforsch.* **19a**, 580 (1964).
- [603] Neshpor, V. S., Novikov, V. L., Noskin, V. A., and Shalyt, S. S., *Zh. Eksp. Teor. Fiz.* **54**, 25 (1968); translation, *Sov. Phys. JETP* **27**, 13 (1968).
- [604] Feder, J., Kiser, S. R., and Rothwarf, F., *Phys. Rev. Letter* **17**, 87 (1966).
- [605] Robin, M. B., Andres, K., Geballe, T. H., Kuebler, N. A., and McWhan, D. B., *Phys. Rev. Letters* **17**, 917 (1966).
- [606] Matthias, B. T., Jayaraman, A., Geballe, T. H., Andres, K., and Corenzwit, E., *Phys. Rev. Letters* **17**, 640 (1966).
- [607] Hauser, J. J., *Phys. Rev. Letters* **17**, 921 (1966).
- [608] Smith, T. F., *Phys. Rev. Letters* **17**, 386 (1966).
- [609] Merriam, M. F., *Phys. Rev. Letters* **11**, 321 (1963).
- [610] Schooley, J. F., Hosler, W. R., and Cohen, M. L., *Phys. Rev. Letters* **12**, 474 (1964).
- [611] Frederikse, H. P. R., Schooley, J. F., Thurber, W. R., Pfeiffer, E., and Hosler, R., *Phys. Rev. Letters* **16**, 579 (1966).
- [612] Moodenbaugh, A. R., and Fisk, Z., *Phys. Letters* **43A**, 479 (1973).
- [613] Finnemore, D. K., Hopkins, D. C., and Palmer, P. E., *Phys. Rev. Letters* **15**, 891 (1965).
- [614] Shelton, R. N., Lawson, A. C., and Johnston, D. C., *Mat. Res. Bull.* **10**, 297 (1975).
- [615] Matthias, B. T., *Rev. Mod. Phys.* **33**, 499 (1961).
- [616] Hake, R. R., *Phys. Rev. Letters* **15**, 865 (1965).
- [617] Van Gorp, G. J., *Phys. Stat. Sol.* **19**, 173 (1967).
- [618] Wittig, J., *Phys. Rev. Letters* **21**, 1250 (1968).
- [619] Strongin, M., Kammerer, O. F., and Paskin, A., *Phys. Rev. Letters* **14**, 949 (1965) and *Proc. Internat. Symp. Grundprobleme der Physik danner Schichten, Gotingen 1965, 1966*, 505-510, discussion 510 (M. A. 1, 1998).
- [620] Shen, L. Y. L., Senozan, N. M., and Phillips, N. E., *Phys. Rev. Letters* **14**, 1025 (1965).
- [621] Schooley, J. F., Hosler, W. R., Ambler, E., Becker, J. H., Cohen, M. L., and Koonce, C. S., *Phys. Rev. Letters* **14**, 305 (1965).
- [622] Roy, R., Garcia, P. F., Messier, R., and Rogowski, D., *Mat. Res. Bull.* **10**, 379 (1975).
- [623] Finegold, L., *Phys. Rev. Letters* **13**, 233 (1964).
- [624] Farrell, D. E., Park, J. G., and Coles, B. R., *Phys. Rev. Letters* **13**, 328 (1964).
- [625] Raub, Ch. J., Sweedler, A. R., Jensen, M. A., Broadston, S., and Matthias, B. T., *Phys. Rev. Letters* **13**, 746 (1964).
- [626] Morris, R. C., *Phys. Rev. Letters* **34**, 1164 (1975).
- [627] Hempstead, C. F., and Kim, Y. B., *Phys. Rev. Letters* **12**, 145 (1964).
- [628] Wells, M., Pickus, M., Kennedy, K., and Zackay, V., *Phys. Rev. Letters* **12**, 536 (1964).
- [629] Ho, J. C., Phillips, N. E., and Smith, T. F., *Phys. Rev. Letters* **17**, 694 (1966).
- [630] Green, B. A., Jr., and Culbert, H. V., *Phys. Rev.* **137**, A1168 (1965).
- [631] Rauch, G. C., Rose, R. M., and Wulff, J., *J. Less-Common Metals* **8**, 99 (1965).
- [632] Toth, L. E., Jeitschko, W., and Yen, C. M., *J. Less-Common Metals*, **10**, 29 (1966).
- [633] Giorgi, A. L., and Sklarz, E. G., *J. Less-Common Metals* **11**, 455 (1966).
- [634] Hutcherson, J. V., Guay, R. L., and Herold, J. S., *J. Less-Common Metals* **11**, 296 (1966).
- [635] Toth, L. E., *J. Less-Common Metals*, **13**, 129 (1967).
- [636] Revolinsky, E., Lautenschlager, E. P., and Armitage, C. H., *Solid State Commun.* **1**, 59 (1963).
- [637] Ulmer, K., *Solid State Commun.* **2**, 327 (1964).
- [638] Missell, F. P., Oliveira, N. F., Jr., and Shapiro, Y., *Phys. Stat. Sol.* **667**, K11 (1975).
- [639] Levy, M., and Olson, J. L., *Solid State Commun.* **2**, 137 (1964).
- [640] Sadogopan, V., Pollard, E., and Gatos, H. C., *Solid State Commun.* **3**, 97 (1965).
- [641] Cox, W., *Solid State Commun.* **4**, 403 (1966).
- [642] Feder, J., Kiser, S. R., Rothwarf, F., Burger, J. P., and Valette, C., *Solid State Commun.* **4**, 611 (1966).
- [643] Bither, T. A., Prewitt, C. T., Gillson, J. L., Bierstedt, P. E., Flippen, R. B., and Young, H. S., *Solid State Commun.* **4**, 533

- (1966): also *Phys. Letters* **32A**, 363 (1970); *Inorganic Chem.* **7**, 2208 (1968).
- [644] Bierstedt, P. E., Bither, T. A., and Darnell, F. J., *Solid State Commun.* **4**, 25 (1966); also *Inorg. Chem.* **7**, 969 (1968).
- [645] Greytak, T. J., and Wernick, J. H., *J. Phys. Chem. Solids* **25**, 535 (1964).
- [646] Levinstein, H. J., Wernick, J. H., and Capio, C. D., *J. Phys. Chem. Solids* **26**, 1111 (1965).
- [647] Revolinsky, E., Spiering, G. A., and Beerntsen, D. J., *J. Phys. Chem. Solids* **26**, 1029 (1965).
- [648] Zegler, S. T., *J. Phys. Chem. Solids* **26**, 1347 (1965).
- [649] Bon Mardion, G., Goodman B. R., and Lacaze, A., *J. Phys. Chem. Solids* **26**, 1143 (1965).
- [650] Sadagopan, V., and Gatos, H. C., *J. Phys. Chem. Solids* **27**, 235 (1966).
- [651] Andres, K., Kuehler, N. A., and Robin, M. B., *J. Phys. Chem. Solids* **27**, 1747 (1966).
- [652] Toth, L. E., Yen, C. M., Rosner, L. G., and Anderson D. E., *J. Phys. Chem. Solids* **27**, 1815 (1966).
- [653] Sekula, S. T., and Kernahan, R. H., *J. Phys. Chem. Solids* **27**, 1863 (1966).
- [654] Spiering, G. A., Revolinsky, E., and Beerntsen, D. J., *J. Phys. Chem. Solids* **27**, 535 (1966).
- [655] Smith, G. F., and Harris, I. R., *J. Phys. Chem. Solids* **28**, 1846 (1967).
- [656] Ho, J. C., Phillips, N. E., and Smith, T. F., unpublished. Quoted in ref. 655.
- [657] Smith, T. F., unpublished. Quoted in ref. [655].
- [658] Smith, T. F., and Luo, H. L., *J. Phys. Chem. Solids* **28**, 569 (1967).
- [659] Matthias, B. T., private communication. Quoted in ref. 658.
- [660] Jensen, M. A., Ph. D. Thesis, Univ. of Calif., San Diego, LaJolla (1965).
- [661] Van Vucht, J. H. N., Bruning, H. A. C. M., and Donkersloot, H. C., *Phys. Letters* **7**, 297 (1963).
- [662] Gygax, S., Olsen, J. L., and Kropschot, R. H., *Phys. Letters* **8**, 228 (1964).
- [663] Hennephof, J., *Phys. Letters* **11**, 273 (1964).
- [664] Doidge, P. R., and Kwan, S., *Phys. Letters* **12**, 82 (1964).
- [665] Druyvesteyn, W. F., *Phys. Letters* **13**, 195 (1964).
- [666] Rosenblum, B., and Cordona, M., *Phys. Letters* **13**, 33 (1964).
- [667] Popova, S. V., Fomicheva, L. N., and Palmikov, N. I., *Zh. ETF Pis. Red.* **20**, 648 (1974); translation, *JETP Letters* **20**, 298 (1974).
- [668] Veyssie, J. J., Brochier, D., Nemoz, A., and Blanc, J., *Phys. Letters* **14**, 261 (1965).
- [669] LaLevic, B., *Phys. Letters* **16**, 206 (1965).
- [670] Merriam, M. F., *Phys. Letters* **17**, 16 (1965).
- [671] Kammerer, O. F., and Strongin, M., *Phys. Letters* **17**, 224 (1965).
- [672] Seidel, T., and Meissner, H., *Phys. Letters* **17**, 100 (1965).
- [673] Aoki, R., and Ohtsuka, T., *Phys. Letters* **19**, 456 (1965).
- [674] Granqvist, C. G., and Claeson, T., *Z. Phys.* **B20**, 241 (1975).
- [675] Van Maaren, M. H., and Schaeffer, G. M., *Phys. Letters* **20**, 131 (1966).
- [676] Satoh, T., and Ohtsuka, T., *Phys. Letters* **20**, 565 (1966).
- [677] King, H. W., Russell, C. M., and Hulbert, J. A., *Phys. Letters* **20**, 600 (1966).
- [678] Echarri, A., *Phys. Letters* **20**, 619 (1966).
- [679] Ferreira da Silva, J., Van Duykeren, N. W. J., and Dokoupil, Z., *Phys. Letters* **20**, 448 (1966).
- [680] Jones, C. K., and Rayne, J. A., *Phys. Letters* **21**, 510 (1966).
- [681] Minomura, S., Okai, B., Nagasaki, H., and Tanuma, S., *Phys. Letters* **21**, 272 (1966).
- [682] Sutton, J., and Baker, C., *Phys. Letters* **21**, 601 (1966).
- [683] Druyvesteyn, W. F., Niessen, A. K., and Staas, F. A., *Phys. Letters* **22**, 127 (1966).
- [684] Montgomery, D. B., and Wizgall, H., *Phys. Letters* **22**, 48 (1966).
- [685] Malseed, C. F. S., Nethercott, R. B., and Rachinger, W. A., *Phys. Letters* **22**, 551 (1966).
- [686] Williamson, S. J., *Phys. Letters* **23**, 629 (1966).
- [687] Hein, R. A., *Phys. Letters* **23**, 435 (1966).
- [688] Kwasnitza, K., and Rupp, G., *Phys. Letters* **23**, 40 (1966).
- [689] Minomura, S., Okai, B., Onoda, Y., and Tanuma, S., *Phys. Letters* **23**, 641 (1966).
- [690] Ralls, K. M., *Phys. Letters* **23**, 29 (1966).
- [691] Toth, L. E., Zackay, V. F., Wells, M., Olson, J., and Parker, E. R., *Acta Met.* **13**, 379 (1965).
- [692] Luo, H. L., Hagen, J., and Merriam, M. F., *Acta Met.* **13**, 1012 (1965).
- [693] Chiou, C., and Kloholm, E., *Acta. Met.* **12**, 883 (1964).
- [694] Toth, L. E., Wang, C. P., and Yen, C. M., *Act. Met.* **14**, 1403 (1966).
- [695] McWhan, D. B., Hull, G. W. Jr., McDonald, T. R. R., and Gregory, E., *Science* **147**, 1441 (1965).
- [696] Sclar, C. B., Carrison, C. C. and Schwartz, C. M., *Science* **147**, 1569 (1965).
- [697] Chao, C. C., Luo, H. L., and Smith, T. F., *J. Phys. Chem. Solids* **27**, 1555 (1966).
- [698] Geballe, T. H., Matthias, B. T., Andres, K., Fisher, E. S., Smith, T. F., and Zachariasen, W. H., *Science* **152**, 755 (1966).
- [699] Comberg, A., Ewert, S., and Wuhl, H., *Z. Phys.* **B20**, 165 (1975).
- [700] Matthias, B. T., Geballe, T. H., Corenzwit, E., Andres, K., Hull, G. W., Jr., Ito, J. C., Phillips, N. E., and Wohlleben, D. K., *Science* **151**, 985 (1966).
- [701] Dempsey, C. W., Gordon, J. E., and Romer, R. H., *Phys. Rev. Letters* **11**, 547 (1963).
- [702] Hawlett, B. W., *Science*, **154**, 542 (1966).
- [703] Matthias, B. T., *Science*, **154**, 543 (1966).
- [704] Matthias, B. T., Geballe, T. H., Longinotti, L. D., Corenzwit, E., Hull, G. W., Willens, R. H., and Maita, J. P., *Science* **156**, 645 (1967).
- [705] Matthias, B. T., Geballe, T. H., Andres, K., Corenzwit, E., Hull, G. W., Maita, J. P., *Science* **159**, 530 (1968).
- [706] Chu, C. W., Huang, S., Smith, T. F., and Corenzwit, E., *Phys. Rev.* **B11**, 1866 (1975).
- [707] Blaugher, R. D., Hein, R. E., Cox, J. E., and Waterstrat, R. M., *J. Low Temp. Phys.* **1**, 539 (1969).
- [708] Janocko, M. A., Gavaler, J. R., Hulm, J. K., and Jones, C. K., *J. Vac. Sci. Technol.* **7**, 127 (1970).
- [709] Koonce, C. S., Cohen, M. L., Schooley, J. F., Hosler, W. R., and Pfeiffer, E. R., *Phys. Rev.* **163**, 380 (1967).
- [710] Reale, C., *Phys. Letters* **51A**, 353 (1975).
- [711] Bucher, E., and Staudenmann, I. L., unpublished results, Univ. of Geneva.
- [712] Bucher, E., and Zambelli, A., unpublished work, Univ. Geneva.
- [713] Mamiya, T., Nomura, K., and Masuda, Y., *J. Phys. Soc. Japan* **28**, 380 (1970).
- [714] Van Maaren, M. H., Harland, H. B., and Havinga, E. E., *Solid State Comm.* **8**, 1933 (1970).
- [715] Havinga, E. E., Damsma, H., and Van Maaren, M. H., *J. Phys. Chem. Solids* **31**, 2653 (1970).
- [716] Hauser, J. J., and Theuerer, H. C., *Phys. Rev.* **129**, 103 (1963).
- [717] Raub, Ch. J., and Hull, G. W., Jr., *Phys. Rev.* **133**, A932 (1964).
- [718] Stromberg, T. F., and Swenson, C. A., *Phys. Rev.* **134**, A21 (1964).
- [719] Hauser, J. J., and Theuerer, H. C., *Phys. Rev.* **134**, A198 (1964).
- [720] Van Der Hoeven, B. J. C., and Keesom, P. H., *Phys. Rev.* **134**, A1320 (1964).
- [721] Leupold, H. A., and Boorse, H. A., *Phys. Rev.* **134**, A1322 (1964).
- [722] McConville, T., and Serin, B., *Phys. Rev.* **140**, A1169 (1965).

- [723] Mydosh, J., and Meissner, H., Phys. Rev. **140**, A1568 (1965).
- [724] Smith, T. F., and Gardner, W. E., Phys. Rev. **140**, A1620 (1965).
- [725] Shapira, Y., and Neuringer, L. J., Phys. Rev. **140**, A1638 (1965).
- [726] Lutes, O. S., and Clayton, D. A., Phys. Rev. **145**, 218 (1966).
- [727] Gardner, W. E., and Smith, T. F., Phys. Rev. **144**, 233 (1966).
- [728] Merriam, M. F., Phys. Rev. **144**, 300 (1966).
- [729] Smith, T. F., and Gardner, W. E., Phys. Rev. **146**, 291 (1966).
- [730] Guthrie, G. L., and Palmer, R. L., Phys. Rev. **141**, 346 (1966).
- [731] Gibson, J. W., and Hein, R. A., Phys. Rev. **141**, 407 (1966).
- [732] Claeson, T., Luo, H. L., and Merriam, M. F., Phys. Rev. **141**, 412 (1966).
- [733] Hauser, J. J., Theurer, H. C., and Werthamer, N. R., Phys. Rev. **142**, 118 (1966).
- [734] Duffy, R. J., and Meissner, H., Phys. Rev. **147**, 248 (1966).
- [735] Seidel, T., and Meissner, H., Phys. Rev. **147**, 272 (1966).
- [736] Claeson, T., Phys. Rev. **147**, 340 (1966).
- [737] Shier, J. S., and Ginsberg, D. M., Phys. Rev. **147**, 384 (1966).
- [738] Watson, J. H. P., Phys. Rev. **148**, 223 (1966).
- [739] Neuringer, L. J., and Shapira, Y., Phys. Rev. **148**, 231 (1966).
- [740] Cape, J. A., Phys. Rev. **148**, 257 (1966).
- [741] Falge, R. L., Jr., and Hein, R. A., Phys. Rev. **148**, 940 (1966).
- [742] Radebaugh, R., and Keesom, P. H., Phys. Rev. **149**, 209 and 217 (1966).
- [743] Finnmore, D. K., Stromberg, T. F., and Swenson, C. A., Phys. Rev. **149**, 231 (1966).
- [744] Jensen, M. A., and Maita, J. P., Phys. Rev. **149**, 409 (1966).
- [745] Van Der Hoeven, B. J. C., Jr., and Keesom, P. H., Phys. Rev. **137**, A103 (1965).
- [746] Joiner, W. C. H., Phys. Rev. **137**, A112 (1965).
- [747] Finnmore, D. K., Johnson, D. L., Ostenson, J. E., Spedding, F. H., and Beaudry, B. J., Phys. Rev. **137**, A550 (1965).
- [748] Woolf, M. A., and Keif, F., Phys. Rev. **137**, A557 (1965).
- [749] O'Neal, H. R., and Phillips, N. E., Phys. Rev. **137**, A748 (1965).
- [750] Burger, J. P., Deutscher, G., Guyon, E., and Martinet, A., Phys. Rev. **137**, A853 (1965).
- [751] Cline, H. E., Tedmon, C. S., Jr., and Rose, R. M., Phys. Rev. **137**, A1767 (1965).
- [752] Kratzig, E., and Keller, J., Phys. Stat. Sol. **42**, 725 (1970).
- [753] Fischer, O., Jones, H., Bongi, G., Frei, C., and Treyvaud, A., Phys. Rev. Letters **26**, 305 (1971).
- [754] Merriam, M. F., Liu, S. H., and Seraphim, D. P., Phys. Rev. **136**, A17 (1964).
- [755] Claiborne, L. T., and Morse, R. W., Phys. Rev. **136**, A893 (1964).
- [756] Hauser, J. J., Theurer, H. C., and Werthamer, N. R., Phys. Rev. **136**, A637 (1964).
- [757] Douglass, D. H., Jr., and Meservey, R., Phys. Rev. **135**, A19 (1964).
- [758] Meservey, R., and Douglass, D. H., Jr., Phys. Rev. **135**, A24 (1964).
- [759] Hake, R. R., and Cape, J. A., Phys. Rev. **135**, A1151 (1964).
- [760] Saunders, G. A., and Lawson, A. W., Phys. Rev. **135**, A1161 (1964).
- [761] Tittman, B. R., Darnell, A. J., Bommel, H. E., and Libby, W. R., Phys. Rev. **135**, A1460 (1964). Also see A1453.
- [762] Caplan, S., and Chanin, G., Phys. Rev. **138**, A1428 (1965).
- [763] Toxen, A. M., Burns, M. J., and Quinn, D. J., Phys. Rev. **138**, A1145 (1965).
- [764] Gardner, W. E., and Smith, T. F., Phys. Rev. **138**, A484 (1965).
- [765] Martin, D. L., Phys. Rev. **138**, A464 (1965).
- [766] Raub, Ch. J., and Anderson, C. A., Z. Phys. **175**, 105 (1963).
- [767] Cooper, A. S., Corenzwit, E., Longinotti, L. D., Matthias, B. T., and Zachariassen, W. H., Proc. Nat. Acad. Sci. **67**, 313 (1970).
- [768] Bucher, E., Andres, K., Maita, J. P., and Hull, G. W., Jr., Helv. Phys. Acta **41**, 723 (1968).
- [769] Andres, K., Bucher, E., Maita, J. P., and Cooper, A. S., Phys. Letters **28A**, 67 (1968).
- [770] Hulm, J. K., Ashkin, M., Deis, D. W., and Jones, C. K., Prog. in Low Temp. Phys. **6**, 205 (1970).
- [771] DeSorbo, W., Phys. Rev. **134**, A1119 (1964).
- [772] DeSorbo, W., Phys. Rev. **135**, A1190 (1964).
- [773] Glover, R. E., III, Prog. In Low Temp. Phys. **6**, 291-332 (1970).
- [774] Wittig, J., J. Phys. Chem. Solids **30**, 1407 (1969).
- [775] Wittig, J., and Matthias, B. T., Science **160**, 994 (1968).
- [776] Luo, H. L., Maple, M. B., Harris, I. R., and Smith, T. F., Phys. Letters **27A**, 519 (1968).
- [777] Wittig, J., and Matthias, B. T., Phys. Rev. Letters **22**, 634 (1969).
- [778] Schmidt, L., Phys. Letters **31A**, 551 (1970).
- [779] Buckel, W., and Gey, W., Z. Phys. **176**, 336 (1963).
- [780] Wittig, J., Z. Phys. **195**, 228 (1966).
- [781] Wittig, J., Phys. Rev. Letters **24**, 812 (1970).
- [782] Fisk, Z., and Matthias, B. T., Science **165**, 279 (1969).
- [783] Faigle, R. L., Jr., Phys. Letters **24A**, 579 (1967).
- [784] Giorgi, A. L., Szklarz, E. G., Krupka, M. C., Wallace, T. C., and Krikorian, N. H., J. Less-Common Metals **14**, 247 (1968) and private communication.
- [785] Brandt, N. B., and Berman, I. V., Zh. ETF Pis. Red. **7**, 198 (1968); translation JETP Letters **7**, 152 (1968).
- [786] Berman, I. V., and Brandt, N. B., Zh. ETF Pis. Red. **7**, 412 (1968); translation Sov. Phys. JETP Letters **7**, 323 (1968).
- [787] Foner, S., McNiff, E. J., Jr., Matthias, B. T., Geballe, T. H., Willens, R. H., and Corenzwit, E., Phys. Letters **31A**, 349 (1970).
- [788] Andres, K., Bucher, E., Maita, J. P., and Sherwood, R. C., Phys. Rev. **178**, 702 (1969).
- [789] Yasukochi, K., Akihama R., and Usui, N., Japan. J. Appl. Phys. **9**, 845 (1970).
- [790] Klimashin, G. M., Neshpor, V. S., Kikitin, V. P., Novikov, V. I., and Shalyt, S. S., Zh. ETF Pis. Red. **12**, 147 (1970); translation JETP Letters **12**, 102 (1970).
- [791] Palmy, C., Olsen, J. L., Flach, R., and Detrey, P., Coll. Inter. du CNRS **188**, 95 (1970), Grenoble Meetings 8-10 Sept. 1969.
- [792] Surikov, V. I., Borzhitskaya, M. K., Shtolts, A. K., Zagriazhskiy, V. L., and Geld, P. V., Fiz. Metal. Metalloved. **30** (6), 1167 (1970), translation Phys. Metals and Metallography **30** (6), 46 (1970).
- [793] Lawson, A. C., J. Less-Common Metals **23**, 103 (1971).
- [794] Maple, M. B., Solid State Commun. **8**, 1915 (1970).
- [795] Schmidt, L., McCarthy, S. L., and Maita, J. P., Solid State Commun. **8**, 1513 (1970).
- [796] Van Maaren, M. H., and Harland, H. B., Phys. Letters **29A**, 571 (1969).
- [797] Van Maaren, M. H., and Schaeffer, G. M., Phys. Letters **24A**, 645 (1967).
- [798] Tomasch, W. J., Phys. Rev. **139**, A746 (1965).
- [799] Lindenfeld, P., and Rohrer, H., Phys. Rev. **139**, A206 (1965).
- [800] Chaudhari, R. D., and Brown, J. B., Phys. Rev. **139**, A1482 (1965).
- [801] Rothwarf, F., Schmitz, J. A., Dickson, C. C., Thiel, R. C., Boller, H., and Parthe, E., Phys. Rev. **152**, 341 (1966).
- [802] Gordon, J. E., Montgomery, H., Noer, R. J., Pickett, G. R., and Tobon, R., Phys. Rev. **152**, 432 (1966).
- [803] Gregory, W. D., Sheahan, T. P., and Cochran, J. F., Phys. Rev. **150**, 315 (1966).
- [804] Gueths, J. E., Reynolds, C. A., and Mitchell, M. A., Phys. Rev. **150**, 346 (1966).
- [805] Barnes, L. J., and Hake, R. B., Ann. Acad. Sci. Fennicae A **VI** No. 210 (1966), p. 73.
- [806] Finnmore, D. K., and Johnson, D. L., ref. 805, p. 84.
- [807] Goodman, B. B., and Marcucci, S. G., Ref. 805, p. 86.
- [808] Ohtsuka, T., and Satoh, T., ref. 805, p. 92.
- [809] Otter, F. A., Jr., and Yutema, G. B., ref. 805, p. 98.
- [810] Ueki, K., and Kanda, E., ref. 805, p. 104.
- [811] Veal, B. W., and Hulm, J. K., ref. 805, p. 108.
- [812] Bommerot, J., Caroli, B., and Coqblin, B., ref. 805, p. 120.

- [813] Finegold, L., Hulm, J. K., Mazelsky, R., Phillips, N. E., and Triplett, B. B., ref. 805, p. 129.
- [814] Wilkes, W. R., and Mapother, D. E., ref. 805, p. 135.
- [815] Samsonov, G. V., and Neshpor, V. S., *Zh. Eksp. Teor. Fiz.* **30**, 1143 (1956); translation, *Sov. Phys. JETP* **3**, 947, (1957).
- [816] Lazarev, B. G., Lazareva, L. S., Ovcharenko, O. N., and Matsakova, A. A., *Zh. Eksp. Teor. Fiz.* **43**, 2309 (1962); translation, *Sov. Phys. JETP* **16**, 1631 (1963).
- [817] Lazarev, B. G., Lazareva, L. S., and Makarov, V. I., *Zh. Eksp. Teor. Fiz.* **43**, 2311 (1962); translation, *Sov. Phys. JETP* **16**, 1632 (1963).
- [818] Neal, D. F., Barber, A. C., Woolcock, A., and Gidley, J. A. F., *Acta Met.* **19**, 143 (1971).
- [819] Keskar, K. S., Yamashita, T., and Onodera, Y., *Jap. J. Appl. Phys.* **10**, 370 (1971).
- [820] Mizutani, U., *Jap. J. Appl. Phys.* **10**, 367 (1971).
- [821] Hauser, J. J., Hamann, D. R., and Kammlott, G. W., *Phys. Rev.* **B3**, 2211 (1971).
- [822] Cape, J. A., and Silvera, I. F., *Phys. Rev. Letters* **20**, 326 (1968).
- [823] Ageev, N. V., Alekseevskii, N. E., Mikhailov, N. N., and Shamrai, V. F., *Zh. ETF Pis. Red.* **6**, 901 (1967); translation, *JETP Letters* **6**, 329 (1967).
- [824] Alekseevskii, N. E., and Mikhailov, N. N., *Zh. ETF Pis. Red.* **6**, 584 (1967); translation, *JETP Letters* **6**, 92 (1967).
- [825] Savitskii, E. M., Baron, V. V., and Efimov, Yu. V., *Dokl. AN SSR* **171**, 331 (1966); *Sov. Phys. Doklady* **11**, 988 (1967).
- [826] Galkin, A. A., and Svistunov, V. M., *Phys. Status Solidi* **26**, K55 (1968).
- [827] Gough, C. E., *Solid State Commun.* **6**, 215 (1968).
- [828] Walmsley, D. G., Campbell, C. K., and Dynes, R. C., *Can. J. Phys.* **46**, 1129 (1968).
- [829] Berman, I. V., Brandt, N. B., and Ginzburg, N. I., *Zh. Eksp. Teor. Fiz.* **53**, 124 (1967); translation, *Sov. Phys. JETP* **26**, 86 (1968).
- [830] Lazarev, B. G., Ovcharenko, O. N., Matsakova, A. A., and Volot-skaya, V. G., *Zh. Eksp. Teor. Fiz.* **54**, 1031 (1968); translation, *Sov. Phys. JETP* **27**, 549 (1968).
- [831] Sahm, P. R., Pruss, T. V., and Gandolfo, D. A., *Trans. AIME* **242**, 603 (1968).
- [832] Berndt, H., Kartascheff, N., and Wenzl, H., *Z. Angew. Phys.* **24**, 305 (1968).
- [833] Ikushima, A., Mizusaki, T., and Odaka, T., *Phys. Letters* **26A**, 582 (1968).
- [834] Ogasawara, T., thesis (Nihon Univ., 1967).
- [835] Doyle, N. J., Hulm, J. K., Jones, C. K., Miller, R. C., and Taylor, A., *Phys. Letters* **26A**, 604 (1968).
- [836] Chu, C. W., Gardner, W. E., and Smith, T. F., *Phys. Letters* **26A**, 627 (1968).
- [837] Strongin, M., and Kammerer, O. F., *J. Appl. Phys.* **39**, 2509 (1968).
- [838] Vetrano, J. B., Guthrie, G. L., Kissinger, H. E., Brimhall, J. L., and Mastel, B., *J. Appl. Phys.* **39**, 2524 (1968).
- [839] Bell, H., Shy, Y. M., Anderson, D. E., and Toth, L. E., *J. Appl. Phys.* **39**, 2797 (1968).
- [840] Black, W. C., Jr., *Phys. Rev. Letters* **21**, 28 (1968).
- [841] Leksina, I. Y. E., Motulevich, G. P., Fedotov, L. N., and Shubin, A. A., *Fiz. Metal. Metalloved* **23**, 511 (1967); translation *Phys. Metals Metallography* **24**, 116 (1968).
- [842] Cape, J. A., and Silvera, I. F., *Phys. Letters* **27A**, 13 (1968).
- [843] Gordon, D. E., and Deaton, B. C., *Phys. Letters* **27A**, 116 (1968).
- [844] Essmann, U., and Trauble, H., *Phys. Letters* **27A**, 156 (1968).
- [845] Ocken, H., and Van Vucht, J. H. N., *J. Less-Common Metals* **15**, 193 (1968).
- [846] Luo, H. L., *J. Less-Common Metals* **15**, 299 (1968).
- [847] Corsan, J. M., Williams, I., Catterall, J. A., and Cook, A. J., *J. Less-Common Metals* **15**, 437 (1968).
- [848] Juodakis, A., and Kannewurf, C. R., *J. Appl. Phys.* **39**, 3003 (1968).
- [849] Ishida, K., master's thesis, Northwestern Univ., (U.S.A.), 1968.
- [850] Sulkowski, C., and Mazur, J., *Acta Phys. Polon.* **33**, 827 (1968).
- [851] Hasse, J., and Seiberth, J., *Z. Phys.* **213**, 79 (1968).
- [852] Baier, P., *Z. Phys.* **213**, 89 (1968).
- [853] Hines, W. A., and Harris, I. R., *J. Phys. F: Metal Physics* **1**, 93 (1971).
- [854] Davies, J. P. N., Robinson, G., and Tilley, D. R., *J. Phys. (Proc. Phys. Soc.)* **C1** 699 (1968).
- [855] Voigt, H., *Z. Phys.* **213**, 119 (1968).
- [856] Cheewe, J. D. N., and Ducla-Soares, E., *Phys. Letters* **27A**, 264 (1968).
- [857] Ancher, L. J., Pulis, N. J., Wulffers, L. A. G. M., and Diemer, E. A. P., *Physica* **51**, 605 (1971).
- [858] Ignat'eva, T. A., Makarov, V. I., and Tereshina, N. S., *Zh. Eksp. Teor. Fiz.* **54**, 1617 (1968); translation, *Sov. Phys. JETP* **27**, 865 (1968).
- [859] Hartsough, L. D., Zackay, V. F., and Parker, E. R., *Appl. Phys. Letters* **13**, 68 (1968).
- [860] Komata, T., Hasimoto, Y., and Hirata, I., *Cryogenic Eng. (Tokyo)* **3**, 2 (1968).
- [861] Nembach, E., *J. Phys. Chem. Solids* **29**, 1205 (1968).
- [862] Meissner, H., and Tholfsen, P., *J. Low Temp. Phys.* **4**, 141 (1971).
- [863] Green, R. W., Thorland, E. O., Groat, J., and Legvold, S., *J. Appl. Phys.* **40**, 3161 (1969).
- [864] Ikushima, A., and Mizusaki, T., *J. Phys. Chem. Solids* **30**, 873 (1969).
- [865] Katzman, H., Donohue, T., Libby, W. F., Luo, H. L., and Huber, J. G., *J. Phys. Chem. Solids* **30**, 1609 (1969).
- [866] Wernick, J. H., Menth, A., Geballe, T. H., Hull, G., and Maita, J. P., *J. Phys. Chem. Solids* **30**, 1949 (1969).
- [867] Katzman, H., Donohue, T., Libby, W. F., and Luo, H. L., *J. Phys. Chem. Solids* **30**, 2794 (1969).
- [868] Krupka, M. C., Giorgi, A. L., Krikorian, N. H., and Szklarz, E. G., *J. Less-Common Metals* **17**, 91 (1969).
- [869] Giorgi, A. L., Szklarz, E. G., Krupka, M. C., and Krikorian, N. H., *J. Less-Common Metals* **17**, 121 (1969).
- [870] Krupka, M. C., Giorgi, A. L., Krikorian, N. H., and Szklarz, E. G., *J. Less-Common Metals* **19**, 113 (1969).
- [871] Krikorian, N. H., Giorgi, A. L., Szklarz, E. G., Krupka, M. C., and Matthias, B. T., *J. Less-Common Metals* **19**, 253 (1969).
- [872] Tachikawa, K., and Iwasa, Y., *Appl. Phys. Letters* **16**, 230 (1970).
- [873] Maxwell, E., Schwartz, B. B., Wiggall, H., and Hechler, K., *J. Appl. Phys.* **39**, 2568 (1968).
- [874] Neuringer, L. J., and Shapira, Y., *Phys. Rev. Letters* **17**, 81 (1966).
- [875] Sample, H. H., Gerber, J. A., Neuringer, L. J., and Kaufman, L. A., *Phys. Letters* **33A**, 119 (1970).
- [876] Foner, S., McNiff, E. J., Jr., Matthias, B. T., and Corenzwit, E., *J. Appl. Phys.* **40**, 2010 (1969).
- [877] Otto, G., Saur, E., and Wiggall, H., *J. Low Temp. Phys.* **1**, 19 (1969).
- [878] Hackett, W. H., Jr., Maxwell, E., and Kim, Y. B., *Phys. Letters* **24A**, 663 (1967).
- [879] Gordon, J. E., Gardner, W. E., Smith, T. F., Chu, C. W., and Maple, M. B., *Phys. Rev.* **176**, 556 (1968).
- [880] Hechler, K., Horn, G., Otto, G., and Saur, E., *J. Low Temp. Phys.* **1**, 29 (1969).
- [881] Hoenig, H. E., and Barth, N., *J. Low Temp. Phys.* **1**, 355 (1969).
- [882] Black, W. C., Johnson, R. T., and Wheatley, J. C., *J. Low Temp. Phys.* **1**, 641 (1969).
- [883] Huebener, R. P., Kampwirth, R. T., and Seher, A., *J. Low Temp. Phys.* **2**, 113 (1970).
- [884] Pfeiffer, E. R., and Schooley, J. F., *J. Low Temp. Phys.* **2**, 333 (1970).
- [885] Cadieu, F. J., *J. Low Temp. Phys.* **3**, 393 (1970).

- [886] Huber, J. G., and Maple, M. B., *J. Low Temp. Phys.* **3**, 537 (1970).
- [887] Thorp, T. L., Triplett, B. B., Brewer, W. D., Cohen, M. L., Phillips, N. E., Shirley, D. A., Templeton, J. E., Stark, R. W., and Schmidt, P. H., *J. Low Temp. Phys.* **3**, 589 (1970).
- [888] Brandt, B. L., Parks, R. D., and Chaudhari, R. D., *J. Low Temp. Phys.* **4**, 41 (1971).
- [889] Yasohama, K., and Usui, N., *Japan. J. Appl. Phys.* **7**, 1128 (1968).
- [890] Asada, T., Horiuchi, T., and Uchida, M., *Japan. J. Appl. Phys.* **8**, 958 (1969).
- [891] Donohue, P. C., and Young, H. S., *J. Solid State Chem.* **1**, 143 (1970).
- [892] Donohue, P. C., and Bierstedt, P. E., *Inorg. Chem.* **8**, 2690 (1969).
- [893] Newkirk, L. R., and Tsuci, C. C., *Phys. Stat. Sol.* **a4**, 387 (1971).
- [894] Kodess, B. N., *Phys. Stat. Sol.* **a4**, K109 (1971).
- [895] Karasik, V. R., Nisel'son, L. A., Petrusevich, I. V., Shal'nikov, A. I., and Shebalin, I. Yu., *Zh. ETF Pis. Red.* **8**, 479 (1968); translation *JETP Letters* **8**, 294 (1968).
- [896] Alekseevskii, N. E., Ageev, N. V., Mikhailov, N. N., and Shamrai, V. F., *Zh. ETF Pis. Red.* **9**, 28 (1969); translation *IETP Letters* **9**, 16 (1969).
- [897] Alekseevskii, N. E., *Zh. ETF Pis. Red.* **9**, 571 (1969); translation *JETP Letters* **9**, 347 (1969).
- [898] Berman, I. V., and Brandt, V. B., *Zh. ETF Pis. Red.* **10**, 88 (1969); translation *JETP Letters* **10**, 55 (1969).
- [899] Alekseevskii, N. E., and Tsebro, V. I., *Zh. ETF Pis. Red.* **10**, 181 (1969); translation *JETP Letters* **10**, 114 (1969).
- [900] Rabin'kin, A. G., and Tonkov, E. Yu., *Zh. ETF Pis. Red.* **10**, 289 (1969); translation *JETP Letters* **10**, 183 (1969).
- [901] Golovashkin, A. I., Levchenko, I. S., Leksina, I. E., Motulevich, G. P., and Shubin, A. A., *Zh. ETF Pis. Red.* **10**, 515 (1969); translation *JETP Letters* **10**, 328 (1969).
- [902] Il'ina, M. A., and Itskevich, E. S., *Zh. ETF Pis. Red.* **11**, 26 (1970); translation *JETP Letters* **11**, 15 (1970).
- [903] Il'ina, M. A., and Itskevich, E. S., *Zh. ETF Pis. Red.* **11**, 328 (1970); translation *JETP Letters* **11**, 218 (1970).
- [904] Eichler, A., and Wittig, J., *Z. Angew. Phys.* **25**, 319 (1968).
- [905] Prokoshkin, A. F., and Puzei, I. M., *Zh. ETF Pis. Red.* **11**, 493 (1970); translation *JETP Letters* **11**, 336 (1970).
- [906] Boiko, L. G., and Popova, S. V., *Zh. ETF Pis. Red.* **12**, 101 (1970); translation *JETP Letters* **12**, 70 (1970).
- [907] Voronova, I. V., Mikhailov, N. N., and Skvortsov, A. I., *Zh. ETF Pis. Red.* **12**, 209 (1970); translation *JETP Letters* **12**, 145 (1970).
- [908] Alekseevskii, N. E., Zakosarenko, V. M., and Tsebro, V. I., *Zh. ETF Pis. Red.* **12**, 228 (1970); translation *JETP Letters* **12**, 157 (1970).
- [909] Il'ina, M. A., and Itskevich, E. S., *Zh. ETF Pis. Red.* **13**, 23 (1971); translation *JETP Letters* **13**, 15 (1971).
- [910] Aomine, T., and Shibuya, Y., *J. Phys. Soc. Japan* **25**, 1289 (1968).
- [911] Ogasawara, T., Kubota, Y., and Yasukochi, K., *J. Phys. Soc. Japan* **25**, 1307 (1968).
- [912] Aomine, T., *J. Phys. Soc. Japan* **25**, 1585 (1968).
- [913] Asada, Y., and Nose, H., *J. Phys. Soc. Japan* **26**, 347 (1969).
- [914] Yamaya, K., Sambongi, T., and Mitsui, T., *J. Phys. Soc. Japan* **26**, 866 (1969).
- [915] Tsuda, N., *J. Phys. Soc. Japan* **27**, 1075 (1969).
- [916] Satoh, T., and Asada, Y., *J. Phys. Soc. Japan* **27**, 1463 (1969).
- [917] Usei, N., Ogasawara, T., Yasukochi, K., and Tomoda, S., *J. Phys. Soc. Japan* **27**, 574 (1969).
- [918] Kuwasawa, Y., Sekizawa, K., Usui, N., and Yasukochi, K., *J. Phys. Soc. Japan* **27**, 590 (1969).
- [919] Takata, M., *J. Phys. Soc. Japan* **27**, 615 (1969).
- [920] Hill, H. H., and Matthias, B. T., *Phys. Rev.* **168**, 464 (1968).
- [921] Crow, J. E., Strongin, M., Thompson, R. S., and Kammerer, O. F., *Phys. Letters* **30A**, 161 (1969).
- [922] Spitzli, P., Flukiger, R., Heiniger, F., and Muller, J., *Phys. Letters* **30A**, 170 (1969).
- [923] Hanak, J. J., Gittleman, J. I., Pellicane, J. P., and Bozowski, S., *Phys. Letters* **30A**, 201 (1969).
- [924] Van Maaren, M. H., and Harland, H. B., *Phys. Letters* **30A**, 204 (1969).
- [925] Takata, M., *Phys. Letters* **30A**, 244 (1969).
- [926] Wu, T. M., *Phys. Letters* **30A**, 347 (1969).
- [927] Havinga, E. E., Van Maaren, M. H., and Damsma, H., *Phys. Letters* **29A**, 109 (1969).
- [928] Kimura, Y., Ohtsuka, T., Matsui, T., and Mizusaki, T., *Phys. Letters* **29A**, 284 (1969).
- [929] Ho, J. C., and Collings, E. W., *Phys. Letters* **29A**, 206 (1969).
- [930] Van Maaren, M. H., *Phys. Letters* **29A**, 293 (1969).
- [931] Collings, E. W., and Ho, J. C., *Phys. Letters* **29A**, 306 (1969).
- [932] Dummer, G., *Phys. Letters* **29A**, 311 (1969).
- [933] Palmy, C., *Phys. Letters* **29A**, 373 (1969).
- [934] Flukiger, R., Spitzli, P., Heiniger, F., and Muller, J., *Phys. Letters* **29A**, 407 (1969).
- [935] Pfeiffer, E. R., and Schooley, J. F., *Phys. Letters* **29A**, 589 (1969).
- [936] Ehrat, R., and Rinderer, L., *Phys. Letters* **29A**, 712 (1969).
- [937] Leger, A., and Klein, J., *Phys. Letters* **28A**, 751 (1969).
- [938] Fassnacht, R. E., and Dillinger, J. R., *Phys. Letters* **28A**, 741 (1969).
- [939] Sahn, P. R., and Pruss, T. V., *Phys. Letters* **28A**, 707 (1969).
- [940] Corsan, J. M., and Cook, A. J., *Phys. Letters* **28A**, 500 (1969).
- [941] Komenou, K., Yamashita, T., and Onodera, Y., *Phys. Letters* **28A**, 335 (1968).
- [942] Cox, J. E., *Phys. Letters* **28A**, 326 (1968).
- [943] Yasukochi, K., Kuwasawa, Y., and Sekizawa, K., *Phys. Letters* **28A**, 12 (1968).
- [944] Jones, K. A., and Rose, R. M., *Phys. Letters* **27A**, 412 (1968).
- [945] Flukiger, R., Heiniger, F., Junod, A., Muller, J., Spitzli, P., and Staudenmann, J. L., *J. Phys. Chem. Solids* **32**, 459 (1971).
- [946] Wilhelm, M., and Hillenbrand, B., *J. Phys. Chem. Solids* **31**, 559 (1970).
- [947] Vieland, L. J., *J. Phys. Chem. Solids* **31**, 1449 (1970).
- [948] Spitzli, P., Flukiger, R., Heiniger, F., Junod, A., Muller, J., and Staudenmann, J. L., *J. Phys. Chem. Solids* **31**, 1531 (1970).
- [949] Eveltts, J. E., and Wade, J. M. A., *J. Phys. Chem. Solids* **31**, 937 (1970).
- [950] Geballe, T. H., Matthias, B. T., Caroli, B., Corenzwit, E., Maita, J. P., and Hull, G. W., *Phys. Rev.* **169**, 457 (1968).
- [951] Huber, J. G., and Maple, M. B., *Solid State Commun.* **8**, 1987 (1970).
- [952] Chu, C. W., Smith, T. F., and Gardner, W. E., *Phys. Rev. Letters* **20**, 198 (1968).
- [953] Maple, M. B., and Smith, T. F., *Solid State Commun.* **7**, 515 (1969).
- [954] Smith, T. F., *Physics Letters* **33A**, 465 (1970).
- [955] McCarthy, S. L., and Schmidt, L., *J. Less-Common Metals* **23**, 241 (1971).
- [956] Rapp, G., *J. Less-Common Metals* **21**, 27 (1970).
- [957] Tachikawa, K., and Tanaka, Y., *Jap. J. Appl. Phys.* **5**, 834 (1966), and **6**, 782 (1967).
- [958] Fischer, J. J., and Probst, H. B., *J. Less-Common Metals* **9**, 416 (1965).
- [959] Claesson, T., and Merriam, M. F., *J. Less-Common Metals* **11**, 186 (1966).
- [960] Catterall, J. A., and Williams, L., *J. Less-Common Metals* **12**, 258 (1967).
- [961] McWhan, D. B., Compton, V. B., Silverman, M. S., and Soulen, J. R., *J. Less-Common Metals* **12**, 75 (1967).

- [962] Raub, E., Raub, Ch. J., Roschel, E., Compton, V. B., Geballe, T. H., and Matthias, B. T., *J. Less-Common Metals* **12**, 36 (1967).
- [963] Andres, K., and Jensen, M. A., *Phys. Rev.* **165**, 533 (1968) also **165**, 545 (1968).
- [964] Charlesworth, J. P., *Phys. Letters* **21**, 501 (1966).
- [965] Zwicker, U., Meier, T., and Roschel, E., *J. Less-Common Metals* **14**, 253 (1968).
- [966] Toth, L. E., and Zbasnik, J., *Acta Met.* **16**, 1177 (1968).
- [967] Toth, L. E., Ishikawa, M., and Chang, Y. A., *Acta Met.* **16**, 1183 (1968).
- [968] Pfeiffer, I., and Hillmann, H., *Acta Met.* **16**, 1429 (1968).
- [969] Preece, C. M., and King, H. W., *Acta Met.* **17**, 21 (1969).
- [970] Itskevich, E. S., Il'ina, M. A., and Sukhoparov, V. A., *Zh. Eksp. Teor. Fiz.* **45**, 1378 (1963); translation *Sov. Phys. JETP* **18**, 949 (1964).
- [971] Bychkov, Yu. F., Goncharov, I. N., and Khukhareva, I. S., *Zh. Eksp. Teor. Fiz.* **48**, 818 (1965); translation *Sov. Phys. JETP* **21**, 543 (1965).
- [972] Bucher, E., Muller, J., Olsen, J. L., and Palmy, C., *Phys. Letters* **15**, 303 (1965).
- [973] Compy, E. M., *Phys. Letters* **18**, 228 (1965).
- [974] Davis, J. H., Skove, M. J., and Stillwell, E. P., *Solid State Commun.* **4**, 597 (1966).
- [975] Neuringer, L. J., and Shapira, Y., *Solid State Commun.* **2**, 349 (1964).
- [976] DuChatenier, F. J., and Goedemoed, S. H., *Phys. Letters* **7**, 108 (1963).
- [977] Buckel, W., Gey, W., and Wittig, J., *Phys. Letters* **11**, 98 (1964).
- [978] Cardona, M., and Rosenblum, B., *Phys. Letters* **11**, 112 (1964).
- [979] Rosenblum, B., and Cardona, M., *Phys. Letters* **9**, 220 (1964).
- [980] Vielhaber, E., and Luo, H. L., *Solid State Commun.* **5**, 221 (1967).
- [981] Lowell, J., *Solid State Commun.* **5**, 323 (1967).
- [982] Barth, N., Hoening, H. E., and Fulde, P., *Solid State Commun.* **5**, 459 (1967).
- [983] Robbins, M., Willens, R. H., and Miller, R. C., *Solid State Commun.* **5**, 933 (1967).
- [984] Van Maeren, N. H., Schaeffer, C. M., and Lotgering, F. K., *Phys. Letters* **25A**, 238 (1967).
- [985] Maly, J., Santamaria, E., and Donadieu, L., *Phys. Letters* **25A**, 318 (1967).
- [986] Watson, J. H. P., *Phys. Letters* **25A**, 326 (1967).
- [987] Van Reuth, E. C., and Poulis, N. J., *Phys. Letters* **25A**, 390 (1967).
- [988] Colwell, J. H., *Phys. Letters* **25A**, 623 (1967).
- [989] Naugle, D. G., *Phys. Letters* **25A**, 688 (1967).
- [990] Glover, R. E., *Phys. Letters* **25A**, 542 (1967).
- [991] Karasik, V. R., and Vereshchagin, V. G., *Zh. Eksp. Teor. Fiz.* **59**, 36 (1970); translation *Sov. Phys. JETP* **32**, 20 (1971).
- [992] Antonova, E. A., Kiseleva, K. V., and Medvedev, S. A., *Zh. Eksp. Teor. Fiz.* **59**, 54 (1970); translation *Sov. Phys. JETP* **32**, 31 (1971).
- [993] Karasik, V. R., Vasil'ev, N. G., and Ershov, V. G., *Zh. Eksp. Teor. Fiz.* **59**, 790 (1970); translation *Sov. Phys. JETP* **32**, 433 (1971).
- [994] Karasik, V. R., and Shebalin, I. Yu., *Zh. Eksp. Teor. Fiz.* **57**, 1973 (1969); translation *Sov. Phys. JETP* **30**, 1068 (1970).
- [995] Brandt, N. B., and Papp, E., *Zh. Eksp. Teor. Fiz.* **57**, 1090 (1969); translation *Sov. Phys. JETP* **30**, 595 (1970).
- [996] Antonova, E. A., Medvedev, S. A., and Shebalin, I. Yu., *Zh. Eksp. Teor. Fiz.* **57**, 329 (1969); translation *Sov. Phys. JETP* **30**, 181 (1970).
- [997] Brandt, N. B., and Ginzburg, N. I., *Zh. Eksp. Teor. Fiz.* **49**, 1706 (1965); translation *Sov. Phys. JETP* **22**, 1167 (1966).
- [998] Brandt, N. B., Ginzburg, N. I., Ignat'eva, T. A., Lazarev, B. G., Lazareva, L. S., and Makarov, V. I., *Zh. Eksp. Teor. Fiz.* **49**, 85 (1965); translation *Sov. Phys. JETP* **22**, 61 (1966).
- [999] Sukharevskii, A. V., Alapina, A. V., and Dushechkin, Yu. A., *Zh. Eksp. Teor. Fiz.* **54**, 1675 (1968); translation *Sov. Phys. JETP* **27**, 897 (1968).
- [1000] Fassnacht, R. E., and Dillinger, J. R., *Phys. Rev. Letters* **17**, 255 (1966).
- [1001] Zegler, S. T., and Downey, J. W., *Trans. AIME* **227**, 1407 (1963).
- [1002] Junod, A., Heiniger, F., Muller, J., and Spitzli, P., *Helvetica Phys. Acta* **43**, 59 (1970).
- [1003] Gregory, W. D., *Phys. Rev.* **165**, 556 (1968).
- [1004] Harris, E. P., and Mapother, D. E., *Phys. Rev.* **165**, 522 (1968).
- [1005] Schooley, J. F., Fredrikac, H. P. R., Hoeler, W. R., and Pfeiffer, E. R., *Phys. Rev.* **159**, 301 (1967).
- [1006] Willens, R. H., Buehler, E., and Matthias, B. T., *Phys. Rev.* **159**, 327 (1967).
- [1007] Volger J., personal communication.
- [1008] Hulliger F., private communication.
- [1009] O'Boyle, D. R., personal communication.
- [1010] McDonald, W. J., personal communication.
- [1011] Menth, A., Wernick, J. H., Geballe, T. H., Hull, G., and Maita, J. P., *Bull. Amer. Phys. Soc.* **14**, 382 (1969).
- [1012] Maple, M. B., Huber, J. G., and Kim, K. S., *Solid State Commun.* **8**, 981 (1970).
- [1013] Smith, T. F., *Phys. Rev. Letters* **25**, 1483 (1970).
- [1014] Fisk, Z., Matthias, B. T., and Corenzwit, E., *Proc. Nat. Acad. Sci. (USA)* **64**, 1151 (1969).
- [1015] Luo, H. L., Vielhaber, E., and Corenzwit, E., *Z. Phys.* **230**, 443 (1970).
- [1016] Maple, M. B., Wittig, J., and Kim, K. S., *Phys. Rev. Letters* **23**, 1375 (1969).
- [1017] Webb, G. W., *Phys. Rev.* **181**, 1127 (1969).
- [1018] Matthias, B. T., Chu, C. W., Corenzwit, E., and Wohllenben, D., *Proc. Nat. Acad. Sci. (USA)* **64**, 459 (1969).
- [1019] Arrhenius, G., Corenzwit, E., Fitzgerald, R., Hull, G. W. Jr., Luo, H. L., Matthias, B. T., and Zachariasen, W. H., *Proc. Nat. Acad. Sci. (USA)* **61**, 621 (1968).
- [1020] Engelhardt, J. J., *Phys. Rev.* **179**, 452 (1969).
- [1021] Webb, G. W., *Solid State Commun.* **6**, 33 (1968).
- [1022] Hein, R. A., and Meijer, P. H. E., *Phys. Rev.* **179**, 497 (1969).
- [1023] Hein, R. A., Cox, J. E., Blaughter, R. D., and Waterstrat, R. M., *Solid State Commun.* **7**, 381 (1969).
- [1024] Zhuze, V. P., Shalyt, S. S., Noskin, V. A., and Sergeeva V. M., *Zh. ETF Pis. Red.* **3**, 217 (1966); translation *JETP Letters* **3**, 138 (1966).
- [1025] Noto, K., *Sci. Rep. RITU* **A20**, 129 (1968).
- [1026] Hillenbrand, B., and Wilhelm, M., *Phys. Letters* **33A**, 61 (1970).
- [1027] Gamble, F. R., Disalvo, F. J., Klemm, R. A., and Geballe, T. H., *Sci.* **168**, 568 (1970).
- [1028] Alekseevskii, N. E., Tsebro, V. I., and Filippovich, E. I., *Zh. ETF Pis. Red.* **13**, 247 (1971); translation *JETP Letters* **13**, 174 (1971).
- [1029] Trojnar, E., Makiej B., and Sikora, A., *Acta Phys. Polon* **34**, 311, (1968).
- [1030] Collings, E. W., and Hedgecock, F. T., and Muto, Y., *Phys. Rev.* **134**, A1521 (1964).
- [1031] D'Yakov, I. G., and Shvets, A. D., *Zh. Eksp. Teor. Fiz.* **49**, 1091 (1965); translation *Sov. Phys. JETP* **22**, 759 (1966).
- [1032] Sulkowski, C., and Mazur, J., *Acta Phys. Polon.* **A38**, 761, (1970).
- [1033] Moss, M., Smith, D. L., and Lefever, R. A., *Appl. Phys. Letters* **5**, 120 (1964).
- [1034] Montgomery, D. B., and Sampson, W., *Appl. Phys. Letters* **6**, 108 (1965).
- [1035] Piper, J., *Appl. Phys. Letters* **6**, 183 (1965).
- [1036] Willens, R. H., and Buehler, E., *Appl. Phys. Letters* **7**, 25 (1965).
- [1037] Geballe, T. H., and Hull, G. W., Jr., quoted in reference 1036.

- [1038] Pessall, N., Jones, C. K., Johansen, H. A., and Hulm, J. K., *Appl. Phys. Letters* **7**, 38 (1965).
- [1039] Sadagopan, E. R., Pollard, E. R., Giessen, B. C., and Gatos, H. C., *Appl. Phys. Letters* **7**, 72 (1965).
- [1040] Hancox, R., *Appl. Phys. Letters* **7**, 138 (1965).
- [1041] Livingston, J. D., *Appl. Phys. Letters* **8**, 319 (1966).
- [1042] Basavaiah, S., and Pollack, S. R., *Appl. Phys. Letters* **12**, 259 (1968).
- [1043] Reich, R., and Renucci, L., *C. R. Acad. Sci. (Paris)* **260**, 545, 1178, 1408 (1965).
- [1044] Cavalier, J. R., Deis, D. W., Hulm, J. K., and Jones, C. K., *Appl. Phys. Letters* **15**, 329 (1969).
- [1045] Watson, J. H. P., *Appl. Phys. Letters* **16**, 428 (1970).
- [1046] Bosio, L., Defrain, A., Keyston, J., and Vallier, J., *C. R. Acad. Sci. (Paris)* **261**, 5481 (1965).
- [1047] Bosio, L., Cortes, R., Defrain, A., and Epelboin, I., *C. R. Acad. Sci. (Paris)* **264B**, 1592 (1967).
- [1048] Bosio, L., Cortes, R., Defrain, A., and Epelboin, I., *C. R. Acad. Sci. (Paris)* **268B**, 1314 (1969).
- [1049] Merriam, M. F., and Jensen, M. A., *Cryogenics* **2**, 301 (1962).
- [1050] Wipf, S. L., *Cryogenics* **3**, 225 (1963).
- [1051] Desorbo, W., *Cryogenics* **4**, 218 (1964).
- [1052] Ackerman, C. C., Allen, L. D., and Overton, W. C., *Cryogenics* **9**, 63 (1969).
- [1053] Wassermann, E., *Z. Phys.* **187**, 369 (1965).
- [1054] Korn, D., *Z. Phys.* **187**, 463 (1965).
- [1055] Moormann, W., *Z. Phys.* **197**, 136 (1966).
- [1056] Rinderer, L., Saur, E., and Wurm, J., *Z. Phys.* **174**, 405 (1963).
- [1057] Olsen, C. E., Matthias, B. T., and Hill, H. H., *Z. Phys.* **200**, 7 (1967).
- [1058] Wuhl, H., *Z. Phys.* **197**, 276 (1966).
- [1059] Saur, E., and Voepel, C., *Z. Phys.* **176**, 474 (1963).
- [1060] Raub, Ch. J., *Z. Phys.* **178**, 216 (1964) also *Z. Metallkunde* **55**, 195 (1964).
- [1061] Dummer, G., *Z. Phys.* **186**, 249 (1965).
- [1062] Ruhl, W., *Z. Phys.* **186**, 190 (1965).
- [1063] Mailfert, R., Batterman, B. W., and Hanak, J. J., *Phys. Letters* **24A**, 315 (1967).
- [1064] Meyer, G., *Z. Phys.* **189**, 199 (1966).
- [1065] Crow, J. E., and Parks, R. D., *Phys. Letters* **21**, 378 (1966).
- [1066] Kunz, W., and Saur, E., *Z. Phys.* **189**, 401 (1966).
- [1067] Fechner, D., and Hasse, J., *Z. Phys.* **195**, 380 (1966).
- [1068] Wittig, J., *Z. Phys.* **195**, 215 (1966).
- [1069] Hilsch, P., and Naugle, D. G., *Z. Phys.* **201**, 1 (1967).
- [1070] Horn, G., and Saur, E., *Z. Phys.* **210**, 70 (1968).
- [1071] Dummer, G., and Oftedal, E., *Z. Phys.* **208**, 238 (1968).
- [1072] Otto, G., *Z. Phys.* **215**, 323 (1968).
- [1073] Otto, G., *Z. Phys.* **218**, 52 (1969).
- [1074] Gygax, S., *Phys. Kondens. Materie* **4**, 207 (1965).
- [1075] Meyer, G., *Z. Phys.* **219**, 397 (1969).
- [1076] Meunier, F., Burger, J. P., Deutscher, G., and Guyon, E., *Phys. Letters* **26A**, 309 (1968).
- [1077] Sahn, P. R., *Phys. Letters* **26A**, 459 (1968).
- [1078] Gamble, F. R., and McConnell, H. M., *Phys. Letters* **26A**, 162 (1968).
- [1079] Neubauer, H., *Z. Phys.* **226**, 211 (1969).
- [1080] Remeika, J. P., Geballe, T. H., Matthias, B. T., Cooper, A. S., Hull, G. W., and Kelly, E. M., *Phys. Letters* **24A**, 565 (1967).
- [1081] Gey, W., *Z. Phys.* **229**, 85 (1969).
- [1082] Stritzker, B., and Wuhl, H., *Z. Phys.* **243**, 361 (1971).
- [1083] Buck, V., Hilsch, R., and Korn, D., *Z. Phys.* **242**, 1 (1971).
- [1084] Ponyatovskii, E. G., and Rabin'kin, A. G., *Zh. ETF Pis. Red.* **6**, 471 (1967); translation *JETP Letters* **6**, 10 (1967).
- [1085] Buckel, W., Dietrich, M., Heim, G., and Kessler, J., *Z. Phys.* **245**, 283 (1971).
- [1086] Makarov, V. I., and Volynskii, I. Ya., *Zh. ETF Pis. Red.* **4**, 369 (1966); translation *JETP Letters* **4**, 249 (1966).
- [1087] DaSilva, J. F., Van Duykeren, N. W. J., and Dokoupil, Z., *Physica* **32**, 1253 (1966).
- [1088] Van Reuth, E. C., Schoep, G. K., Klaassen, T. O., and Poulis, N. J., *Physica* **37**, 476 (1967).
- [1089] Burton, R., *Cryogenics* **6**, 257 (1966).
- [1090] Makarov, V. I., and Volynskii, I. Y. A., *Fiz. Metal. Metalloved.* **25**, 1122 (1968); translation *Phys. Metals Metallography* **25**, No. 6, 166 (1968).
- [1091] Zakharov, A. E., and Rabin'kin, A. G., *Fiz. Metal. Metalloved.* **26**, 921 (1968); translation *Phys. Metals and Metallography* **26**, No. 5, page 146 (1968).
- [1092] Rayerskiy, I. K., Stepanov, N. V., Skryabina, M. A., Dubrovin, A. V., Alekseevskii, N. E., Ivanov, O. S., *Fiz. Metal. Metalloved.* **27**, 235 (1969); translation—*The Physics of Metals and Metallography* **27**, (June) 42 (1970).
- [1093] Potapov, N. N., *Fiz. Metal. Metalloved.* **27**, 257 (1969); translation *Physics Metals and Metallography* **27**, (June) 63 (1970).
- [1094] Antonova, Ye. A., Kiseleva, K. V., and Medvedev, S. A., *Fiz. Metal. Metalloved.* **27**, 441 (1969); translation *Physics of Metals and Metallography* **27** (3), 58 (1969).
- [1095] Sulkowski, F., Mazur, J., and Zacharko, W., *Acta Physica Polonica* **A41**, 483 (1972).
- [1096] Muheim, J., and Muller, J., *Phys. Kondens. Materie* **2**, 377 (1964).
- [1097] Sulkowski, C., and Mazur, J., *Acta Phys. Polonica* **A37**, 317 (1970).
- [1098] Morton, N., *Cryogenics* **8**, 30 (1968).
- [1099] French, R. A., *Cryogenics* **8**, 301 (1968).
- [1100] Leder, L. B., *Cryogenics* **8**, 364 (1968).
- [1101] King, H. W., and Pollock, J. T. A., *Cryogenics* **7**, 209 (1967).
- [1102] Litomisky, M. and Sirovatka, J., *Cryogenics* **7**, 40 (1967).
- [1103] French, R. A., Lowell, J., and Mendelsohn, K., *Cryogenics* **7**, 83 (1967).
- [1104] Wittig, J., *Sci.* **155**, 685 (1967).
- [1105] Englehardt, J. J., Webb, G. W., and Matthias, B. T. *Sci.* **155**, 191 (1967).
- [1106] French, R. A., *Phys. Letters* **23**, 59 (1966).
- [1107] Sadagopan, V., Gatos, H. C., Hechler, K., and Saur, E., *Z. Phys.* **225**, 231 (1969).
- [1108] Hasse, J., and Reichert, V., *Z. Phys.* **221**, 471 (1969).
- [1109] Danner, S., and Dummer, G., *Z. Phys.* **222**, 243 (1969).
- [1110] Finlayson, T. R., Vance, E. R., and Rachinger, W. A., *Phys. Letters* **26A**, 474 (1968).
- [1111] Maple, M. B., *Phys. Letters* **26A**, 513 (1968).
- [1112] Cruceanu, E., Hering, E., and Schwarz, H., *Phys. Letters* **32A**, 295 (1970).
- [1113] Hillenbrand, B., and Wilhelm, M., *Phys. Letters* **31A**, 448 (1970).
- [1114] Bloom, D. W., Finegold, L., Lye, R. G., Radebaugh, R., and Siegwarth, J. D., *Phys. Letters* **33A**, 137 (1970).
- [1115] Vieland, L. J., and Wicklund, A. W., *Phys. Letters* **34A**, 43 (1971).
- [1116] Tsuei, C. C., Yen, H., and Duwez, P., *Phys. Letters* **34A**, 80 (1971).
- [1117] Satterthwaite, C. B., and Toepke, I. L., *Phys. Rev. Letters* **25**, 741 (1970).
- [1118] Mota, A. C., Black, W. C., Brewster, P. M., Lawson, A. C., Fitzgerald, R. W., and Bishop, J. H., *Phys. Letters* **34A**, 160 (1971).
- [1119] Testardi, L. R., *Phys. Letters* **35A**, 117 (1971).
- [1120] Deutscher, G., Farges, J. P., Meunier, F., and Nedellec, P., *Phys. Letters* **A35**, 265 (1971).
- [1121] Cardona, M., Fischer, G., and Rosenblum, B., *Phys. Rev. Letters* **12**, 101 (1964).
- [1122] Cohen, R. W., Abeles, B., and Weisbarth, G. S., *Phys. Rev. Letters* **18**, 336 (1967).
- [1123] Decker, W. R., Peterson, D. T., and Finnemore, D. K., *Phys. Rev. Letters* **18**, 899 (1967).

- [1124] Cody, G. D., and Miller, R. E., *Phys. Rev. Letters* **16**, 697 (1966).
- [1125] Crow, J. E., Guertin, R. P., and Parks, R. D., *Phys. Rev. Letters* **19**, 77 (1967).
- [1126] Adler, J. C., Jackson, J. E., and Will, T. A., *Phys. Letters* **24A**, 407 (1967). Also see Wu, T. M., in *Phys. Rev. Letters* **19**, 508 (1967).
- [1127] Pfeiffer, E. R., and Schooley, J. F., *Phys. Rev. Letters* **19**, 783 (1967).
- [1128] Gamble, F. R., Osiecki, J. H., and DiSalvo, F. J., *J. Chem. Phys.* **55**, 3525 (1971).
- [1129] McWhan, D. B., and Marezio, M., *J. Chem. Phys.* **45**, 2508 (1966).
- [1130] Munson, R. A., DeSorbo, W., and Kouvel, J. S., *J. Chem. Phys.* **47**, 1769 (1967).
- [1131] Toxen, A. M., Kwok, P. C., and Cambino, R. J., *Phys. Rev. Letters* **21**, 792 (1968).
- [1132] Morton, N., James, B. W., Wostenholm, G. H., Pomfret, D. G., Davies, M. R., and Dykins, J. L., *J. Less-Common Metals* **25**, 97 (1971).
- [1133] Sato, M., Kumasaka, N., and Mitani, M., *J. Phys. Soc. Japan* **21**, 1617 (1966).
- [1134] Strongin, M., Kammerer, O. F., Crow, J. E., Parks, R. D., Douglass, D. H., Jr., and Jensen, M. A., *Phys. Rev. Letters* **21**, 1320 (1968).
- [1135] Finmore, D. K., and Ostenson, J. E., *Phys. Rev. Letters* **22**, 188 (1969).
- [1136] Chen, T. T., Chen, J. T., Leslie, J. D., and Smith, H. J. T., *Phys. Rev. Letters* **22**, 526 (1969); and T. T. Chen, thesis, Univ. of Waterloo, Waterloo, Ontario.
- [1137] Maple, M. B., and Kim, K. S., *Phys. Rev. Letters* **23**, 118 (1969).
- [1138] Koch, C. C., Kernohan, R. H., and Sekula, S. T., *J. Appl. Phys.* **38**, 4359 (1967).
- [1139] Hein, R. A., and Swiggard, E. M., *Phys. Rev. Letters* **24**, 53 (1970).
- [1140] Noto, K., Muto, Y., and Fukuroi, T., *J. Phys. Soc. Japan* **21**, 2122 (1966); **20**, 467 (1965).
- [1141] Tsuya, H., *J. Phys. Soc. Japan* **20**, 1734 (1965).
- [1142] Williamson, S. J., and Valby, L. E., *Phys. Rev. Letters* **24**, 1061 (1970).
- [1143] Sugawara, T., and Eguchi, H., *J. Phys. Soc. Japan* **21**, 725 (1966).
- [1144] Westlake, D. G., and Ockers, S. T., *Phys. Rev. Letters* **25**, 1618 (1970).
- [1145] Gey, W., *Phys. Rev.* **153**, 422 (1967).
- [1146] Gossard, A. C., Hindermann, D. K., Robin, M. B., Kuebler, N. A., and Geballe, T. H., *J. Amer. Chem. Soc.* **89**, 7121 (1967).
- [1147] Giorgi, A. L., and Szklarz, E. G., *J. Less-Common Metals* **20**, 173 (1970).
- [1148] Giorgi, A. L., Szklarz, E. G., Krikorian, N. H., and Krupka, M. C., *J. Less-Common Metals* **22**, 131 (1970).
- [1149] Giorgi, A. L., and Szklarz, E. G., *J. Less-Common Metals* **22**, 246 (1970).
- [1150] Van Maaren, M. H., *Phys. Letters* **40A**, 353 (1972).
- [1151] Lerner, E., Daunt, J. G., and Maxwell, E., *Phys. Rev.* **153**, 487 (1967).
- [1152] Gardner, W. E., and Smith, T. F., *Phys. Rev.* **154**, 309 (1967).
- [1153] Pearson, G. J., Ulbrich, C. W., Gueths, J. E., Mitchell, M. A., and Reynolds, C. A., *Phys. Rev.* **154**, 329 (1967).
- [1154] Bucher, E., Malta, J. P., and Cooper, A. S., *Phys. Rev.* **B6**, 2709 (1972).
- [1155] Merriam, M. F., Hagen, J., and Luo, H. L., *Phys. Rev.* **154**, 424 (1967).
- [1156] Luo, H. L., and Willens, R. H., *Phys. Rev.* **154**, 436 (1967).
- [1157] Cappelletti, R. L., Ginsberg, D. M., and Hulm, J. K., *Phys. Rev.* **158**, 340 (1967).
- [1158] Johnson, D. L., and Finmore, D. K., *Phys. Rev.* **158**, 376 (1967).
- [1159] Mallon, R. G., and Rorschach, H. E. Jr., *Phys. Rev.* **158**, 418 (1967).
- [1160] Hein, R. A., Cox, J. E., Blaughner, R. D., Waterstrat, R. M., and Van Reuth, E. C., *Physica* **55**, 523 (1971).
- [1161] Sekula, S. T., and Kernohan, R. H., *Phys. Rev.* **155**, 364 (1967).
- [1162] Sekula, S. T., and Kernohan, R. H., *Phys. Rev.* **B5**, 904 (1972).
- [1163] Matthias, B. T., Marezio, M., Corenzwit, E., Cooper, A. S., and Barz, H. E., *Sci.* **175**, 1465 (1972).
- [1164] Matthias, B. T., Corenzwit, E., Cooper, A. S., and Longinotti, L. D., *Proc. Nat. Acad. Sci. (U.S.A.)* **68**, 56 (1971).
- [1165] Gamari-Seale, H. and Coles, B. R., *Proc. Phys. Soc.* **86**, 1199 (1965).
- [1166] Martin, D. L., *Proc. Phys. Soc.* **78**, 1482 (1961).
- [1167] Enstrom, R. E., Hanak, J. J., and Cullen, G. W., *RCA Review* **31**, 702 (1970).
- [1168] Enstrom, R. E., Hanak, J. J., Appert, J. R., and Strater, K., *J. Electrochem. Soc.* **119**, 743 (1972).
- [1169] Enstrom, R. E., and Appert, J. R., *J. Appl. Phys.* **43**, 1915 (1972).
- [1170] Aoi, T., Mamiya, T., Iwahashi, K., and Masuda, Y., *Proc. 12th Inter. Conf. on Low Temperature Physics*, ed. E. Kanda, (KEIGAKU Pub. Co., Tokyo, 1971), p. 247.
- [1171] Aoki, R., Kawaguchi, T., Hatada, K., and Kawamura, N., ref. 1170, p. 263.
- [1172] Nakajima, T., Kanda, E., and Ohki, Y., ref. 1170, p. 293.
- [1173] Cadieu, F. J., and Douglass, D. H., Jr., ref. 1170, p. 323.
- [1174] Hulm, J. K., Gavalier, J. R., Janocko, M. A., Patterson, A., and Jonca, C. K., ref. 1170, p. 325.
- [1175] Saito, Y., Anayama, T., Onodera, Y., Yamashita, T., Konenou, K., and Muto, Y., ref. 1170, p. 329.
- [1176] Heiniger, F., Flukiger, R., Junod, A., Muller, J., Spitzli, P., and Staudenmann, J. L., ref. 1170, p. 331.
- [1177] Cox, J. E., Hein, R. A., and Waterstrat, R. M., ref. 1170, p. 333 and personal communication.
- [1178] Glover, R. E., Baumann, F., and Moser, S., ref. 1170, p. 337.
- [1179] Stritzker, B., and Wuhl, H., ref. 1170, p. 339.
- [1180] Kostorz, G., and Mihailovich, S., ref. 1170, p. 341.
- [1181] Coles, B. R., ref. 1170, p. 345.
- [1182] Satoh, T., and Kumagai, K., ref. 1170, p. 347.
- [1183] Toxen, A. M., and Gambino, R. J., ref. 1170, p. 347.
- [1184] Phillips, N. E., Brock, J. C. F., Lambert, M. H., and Merriam, M. F., ref. 1170, p. 353.
- [1185] Van Maaren, M. H., Harland, H. B., and Havinga, E. E., ref. 1170, p. 357.
- [1186] Shanks, H. R., and Danielson, G. C., ref. 1170, p. 359.
- [1187] Satterthwaite, C. B., and Toepke, I. L., ref. 1170, p. 365.
- [1188] Ho, J. C., Boyd, J. D., and Collings, E. W., ref. 1170, p. 366.
- [1189] Inque, K., and Tachikawa, K., ref. 1170, p. 483.
- [1190] Webb, G. W., Vieland, L. J., Miller, R. E., and Wicklund, A., *Solid State Communications* **9**, 1769 (1971).
- [1191] Barz, H. E., Cooper, A. S., Corenzwit, E., Marezio, M., Matthias, B. T., and Schmidt, P. H., *Sci.* **175**, 884 (1972).
- [1192] Gamble, F. R., Osiecki, J. H., Cais, M., Pisharody, R., DiSalvo, F. J., and Geballe, T. H., *Sci.* **174**, 493 (1971).
- [1193] Viswanathan, R., and Lawson, A. C., *Sci.* **177**, 267 (1972).
- [1194] Cherney, O. A. E., and Shewchun, J., *Can. J. Phys.* **47**, 1101 (1969).
- [1195] Shimshick, E. J., and McConnell, H. M., *J. Amer. Chem. Soc.* **91**, 1854 (1969).
- [1196] Courtney, T. H., Reintjes, J., and Wulff, J., *J. Appl. Phys.* **36**, 660 (1965).
- [1197] Tedmon, C. S., Jr., Rose, R. M., and Wulff, J., *J. Appl. Phys.* **36**, 829 (1965).
- [1198] Saunders, G. A., and Lawson, A. W., *J. Appl. Phys.* **35**, 3322 (1964).
- [1199] Neugebauer, C. A., and Ekvall, R. A., *J. Appl. Phys.* **35**, 547 (1963).
- [1200] Sekula, S. T., and Kernohan, R. H., *J. Appl. Phys.* **36**, 2895 (1965).

- [1201] Joiner, W. C. H., *J. Appl. Phys.* **36**, 3895 (1965).
- [1202] Banus, M. D., and Levine, M. C., *J. Appl. Phys.* **38**, 2042 (1967).
- [1203] Yen, C. M., Toth, L. E., Shy, Y. M., Anderson, D. E., and Rosner, L. G., *J. Appl. Phys.* **38**, 2268 (1967).
- [1204] Fassnacht, R. E., and Dillinger, J. R., *J. Appl. Phys.* **38**, 3667 (1967).
- [1205] Doi, T., Ishida, F., and Kawabe, U., *J. Appl. Phys.* **38**, 3811 (1967).
- [1206] Sosniak, J., and Hull, G. W., Jr., *J. Appl. Phys.* **38**, 4390 (1967).
- [1207] Vogel, H. E., and Garland, M. M., *J. Appl. Phys.* **38**, 5116 (1967).
- [1208] Wiseman, C. D., *J. Appl. Phys.* **37**, 3599 (1966).
- [1209] Colling, D. A., Ralls, K. M., and Wulff, J., *J. Appl. Phys.* **37**, 4750 (1966).
- [1210] Enstrom, R. E., *J. Appl. Phys.* **37**, 4880 (1966).
- [1211] Il'ina, M. A., Itskevich, E. S., and Titov, A. V., *Fiz. Tverd. Tela* **16**, 2674 (1974); translation *Sov. Phys. Solid State* **16**, 1731 (1975).
- [1212] Sleight, A. W., Bither, T. A., and Bierstedt, P. E., *Solid State Commun.* **7**, 299 (1969). Also *Phys. Rev. Letters* **23**, 1381 (1969).
- [1213] Allen, P. B., and Cohen, M. L., *Solid State Commun.* **7**, 677 (1969).
- [1214] Falge, R. L., Jr., Wolcott, N. M., Hein, R. A., Cox, J. E., and Gibson, J. W., *Bull. Am. Phys. Soc. II* **13**, 730 (1968).
- [1215] Willens, R. H., Geballe, T. H., Gossard, A. C., Maita, J. P., Menth, A., Hull, G. W., Jr., and Soden, R. R., *Solid State Commun.* **7**, 837 (1969).
- [1216] Kroeger, D. M., *Solid State Commun.* **7**, 843 (1969).
- [1217] Brock, J. C. F., *Solid State Commun.* **7**, 1789 (1969).
- [1218] Knorr, K., and Barth, N., *Solid State Commun.* **8**, 1085 (1970).
- [1219] Hulliger, F., and Hull, G. W., Jr., *Solid State Commun.* **8**, 1379 (1970).
- [1220] Robinson, D. A., and Levy, M., *Solid State Commun.* **8**, 1443 (1970).
- [1221] Khan, H. R., Trunk, H., Raub, Ch. J., Fertig, W. A., and Lawson, A. C., *J. Less-Common Metals* **30**, 167 (1973).
- [1222] Krupka, M. C., Giorgi, A. L., and Szklarz, E. G., *J. Less-Common Metals* **30**, 217 (1973).
- [1223] Morton, N., James, B. W., Wostenholm, G. H., and Hepburn, D. C. B., *J. Less-Common Metals* **29**, 423 (1972).
- [1224] Strongin, M., Dickey, J. M., and Crow, J. E., *Solid State Commun.* **8**, 1647 (1970).
- [1225] Gupta, A. K., Wolf, S., and Chandrasekhar, B. S., *Solid State Commun.* **10**, 57 (1972).
- [1226] Maple, M. B., Huber, J. G., Coles, B. R., and Lawson, A. C., *J. Low Temp. Phys.* **3**, 137 (1970).
- [1227] Luengo, C. A., Cotignola, J. M., Sereni, J. C., Sweedler, A. R., Maple, M. B., and Huber, J. G., *Solid State Commun.* **10**, 459 (1972).
- [1228] Jones, H., Fischer, O., Bongi, G., and Treyvaud, A., *Solid State Commun.* **10**, 927 (1972).
- [1229] Felsch, W., and Glover, R. E., III, *Solid State Commun.* **10**, 1033 (1972).
- [1230] Buchanan, J., Chang, G. K., and Serin, B., *J. Phys. Chem. Solids* **26**, 1183 (1965).
- [1231] Sadagopan, V., Gatos, H. C., and Giessen, B. C., *J. Phys. Chem. Solids* **26**, 1687 (1965).
- [1232] Claeson, T. and Luo, H. L., *J. Phys. Chem. Solids* **27**, 1081 (1966).
- [1233] Andres, K., quoted in ref. [1232].
- [1234] Williams, M. W., Ralls, K. M., and Pickus, M. R., *J. Phys. Chem. Solids* **28**, 333 (1967). Also in dissertation, Univ. Calif-Berkeley, June 1966.
- [1235] Deutscher, G., *J. Phys. Chem. Solids* **28**, 741 (1967).
- [1236] Bachner, F. J., Goodenough, J. B., and Gatos, H. C., *J. Phys. Chem. Solids* **28**, 889 (1967).
- [1237] Tsuda, N., and Suzuki, T., *J. Phys. Chem. Solids* **28**, 2487 (1967).
- [1238] Pessall, N., Gold, R. E., and Johansen, H. A., *J. Phys. Chem. Solids* **29**, 19 (1968).
- [1239] Hanak, J. J., and Berman, H. S., *Supplement to Physics and Chemistry of Solids*, p. 249 (1967).
- [1240] Gambino, R. J., Stemple, N. R., and Toxen, A. M., *J. Phys. Chem. Solids* **29**, 295 (1968).
- [1241] Lubell, M. S., and Kernohan, R. H., *J. Phys. Chem. Solids* **32**, 1531 (1971).
- [1242] Hubble, F. F., Gulick, J. M., and Moulton, W. G., *J. Phys. Chem. Solids* **32**, 2345 (1971).
- [1243] Smith, D. R., and Keesom, P. H., *Phys. Rev.* **B1**, 188 (1970).
- [1244] Narlikar, A. V., and Dew-Hughes, D., *J. Materials Science* **2**, 496 (1967).
- [1245] Damsma, H., and Havinga, E. E., *J. Phys. Chem. Solids* **34**, 813 (1973), and private communication.
- [1246] Mathur, M. P., Deis, D. W., Jones, C. K., and Carr, W. J., Jr., *J. Phys. Chem. Solids* **34**, 183 (1973).
- [1247] Papp, E., *J. Phys. F: Metal Phys.* **2**, 306 (1972).
- [1248] Smith, T. F., *J. Phys. F: Metal Phys.* **2**, 946 (1972).
- [1249] Hauser, J. J., and Theuerer, H. C., *Rev. Modern Phys.* **36**, 80 (1964).
- [1250] Phillips, N. E., Lambert, M. H., and Gardner, W. R., *Rev. Modern Phys.* **36**, 131 (1964).
- [1251] London, H., and Clarke, G. R., *Rev. Mod. Phys.* **36**, 320 (1964).
- [1252] Hill, H. H., White, R. W., Lindsay, J. D. G., Fowler, R. D., and Matthias, B. T., *Phys. Rev.* **163**, 356 (1967).
- [1253] Vieland, L. J., and Wicklund, A. W., *Phys. Rev.* **166**, 424 (1968).
- [1254] Maxwell, E., Strongin, M., and Reed, T. B., *Phys. Rev.* **166**, 457 (1968).
- [1255] Edelstein, A. S., *Phys. Rev.* **164**, 510 (1967).
- [1256] Fassnacht, R. E., and Dillinger, J. R., *Phys. Rev.* **164**, 565 (1967).
- [1257] Chu, C. W., Smith, T. F., and Gardner, W. E., *Phys. Rev.* **B1**, 214 (1970).
- [1258] White, H. W., and McCollum, D. C., *Phys. Rev.* **B1**, 552 (1970).
- [1259] Strongin, M., Thompson, R. S., Kammerer, O. F., and Crow, J. E., *Phys. Rev.* **B1**, 1078 (1970).
- [1260] Rao, C. T., Dubeck, L. W., and Rothwarf, F., *Phys. Rev.* **B7**, 1866 (1973).
- [1261] Davidov, D., Chelkowski, A., Rettori, C., Orbach, R., and Maple, M. B., *Phys. Rev.* **B7**, 1029 (1973).
- [1262] Morris, R. C., and Coleman, R. V., *Phys. Rev.* **B7**, 991 (1973).
- [1263] Parr, H., and Feder, J., *Phys. Rev.* **B7**, 166 (1973).
- [1264] Gordon, D. E., and Deaton, B. C., *Phys. Rev.* **B6**, 2982 (1972).
- [1265] Chaikin, P. M., and Mihalisin, T. W., *Phys. Rev.* **B6**, 839 (1972).
- [1266] Jones, R. E., Jr., Shanks, H. R., and Finnemore, D. K., *Phys. Rev.* **B6**, 835 (1972).
- [1267] Gubser, D. U., *Phys. Rev.* **6B**, 827 (1972).
- [1268] Cody, G. D., and Miller, R. E., *Phys. Rev.* **B5**, 1834 (1972).
- [1269] Rollins, R. W., Cappelletti, R. L., and Fearday, J. H., *Phys. Rev.* **B2**, 105 (1970).
- [1270] Dynes, R. C., *Phys. Rev.* **B2**, 644 (1970); **B4**, 3255 (1971).
- [1271] Williams, L. J., Decker, W. R., and Finnemore, D. K., *Phys. Rev.* **B2**, 1287 (1970).
- [1272] Banus, M. D., *Mat. Res. Bull.* **3**, 723 (1968).
- [1273] Frieberthauser, P. E., and McCamont, J. W., *J. Vac. Sci. Technology* **5**, 180 (1968), paper 8-2.
- [1274] Frieberthauser, P. E., and Notarys, H. A., *J. Vac. Sci. Technology* **7**, 485 (1971).
- [1275] Spitzer, H. J., *J. Vac. Sci. Technology* **7**, 537 (1970).
- [1276] Işao, A., Noguchi, T., Uchida, Y., and Kono, A., *J. Vac. Sci. Technology* **7**, 557 (1970).
- [1277] Noskin, V. A., Farbshtein, I. I., and Shalyt, S. S., *Fiz. Tverdogo Tela* **10**, 1112 (1968); translation *Sov. Phys. Solid State* **10**, 881 (1968).
- [1278] Komnik, Yu. F., Yatsuk, I. A., Andrievskii, V. V., Man'kovskii, K. K., and Pilipenko, V. V., *Fiz. Tverdogo Tela* **13**, 1779 (1971); translation *Sov. Phys. Solid State* **13**, 1486 (1971).

- [1279] Vereshchagin, L. F., Evdokimova, V. V., and Novokshonov, V. I., *Fiz. Tverdogo Tela* **13**, 2474 (1971); translation *Sov. Phys.-Solid State* **13**, 2074 (1972).
- [1280] Il'ina, M. A., and Itskevich, E. S., *Fiz. Tverdogo Tela* **13**, 2496 (1971); translation *Sov. Phys.-Solid State* **13**, 2098 (1972).
- [1281] Bogomolov, V. N., Krivosheev, V. K., and Kumzerov, Yu. A., *Fiz. Tverdogo Tela* **13**, 3720 (1971); translation *Sov. Phys.-Solid State* **13**, 3148 (1972).
- [1282] Il'ina, M. A., and Itskevich, E. S., *Fiz. Tverdogo Tela* **14**, 395 (1972); translation *Sov. Phys.-Solid State* **14**, 328 (1972).
- [1283] Il'ina, M. A., Itskevich, E. S., and Kalyuzhnaya, G. A., *Fiz. Tverdogo Tela* **14**, 515 (1972); translation *Sov. Phys.-Solid State* **14**, 428 (1972).
- [1284] Bogomolov, V. N., and Krivosheev, V. K., *Fiz. Tverdogo Tela* **14**, 1238 (1972); translation *Sov. Phys.-Solid State* **14**, 1059 (1972).
- [1285] Bogomolov, V. N., *Fiz. Tverdogo Tela* **14**, 1575 (1972); translation *Sov. Phys.-Solid State* **14**, 1361 (1972).
- [1286] Kopetskii, Ch. V., Kodess, B. N., and Marchenko, V. A., *Fiz. Tverdogo Tela* **14**, 1804 (1972); translation *Sov. Phys.-Solid State* **14**, 1556 (1972).
- [1287] Fischer, G., *Phys. Rev. Letters* **20**, 268 (1968).
- [1288] Malseed, C., and Rachinger, W. A., *Scripta Metallurgica* **3**, 139 (1969).
- [1289] Luhman, T. S., Taggart, R., and Polonis, D. H., *Scripta Metallurgica* **3**, 777 (1969).
- [1290] Luhman, T. S., Taggart, R., and Polonis, D. H., *Scripta Metallurgica* **4**, 611 (1970).
- [1291] Anderson, J. W., Peterson, D. T., and Finnemore, D. K., *Phys. Rev.* **179**, 472 (1969).
- [1292] Holtzberg, F., Seiden, P. E., and Von Molnar, S., *Phys. Rev.* **168**, 408 (1968).
- [1293] Kircher, C. J., *Phys. Rev.* **168**, 437 (1968).
- [1294] Cohen, R. W., and Abeles, B., *Phys. Rev.* **168**, 444 (1968).
- [1295] Fischer, O. H., *Helvetica Phys. Acta* **45**, 331 (1972).
- [1296] Geballe, T. H., Matthias, B. T., Caroli, B., Corenzwit, E., Maita, J. P., and Hull, G. W., *Phys. Rev.* **169**, 457 (1968).
- [1297] Nembach, E., *Phys. Rev.* **172**, 425 (1968).
- [1298] French, R. A., and Lowell, J., *Phys. Rev.* **173**, 504 (1968).
- [1299] Sadagopan, V., and Gatos, H. C., *Phys. Stat. Sol.* **13**, 423 (1966).
- [1300] Farrell, D. E., Chandrasekhar, B. S., and Huang, S., *Phys. Rev.* **176**, 562 (1968).
- [1301] Brandt, N. B., and Papp, F., *Zh. Eksp. Teor. Fiz.* **55**, 2160 (1968); translation *Sov. Phys. JETP* **28**, 1144 (1968).
- [1302] Chubov, P. N., Eremenko, V. V., and Pilipenko, Yu. A., *Zh. Eksp. Teor. Fiz.* **55**, 752 (1968); translation *Sov. Phys. JETP* **28**, 389 (1969).
- [1303] Niemiec, J., and Trojnar, E., *Phys. Stat. Sol.* **17**, K89 (1966).
- [1304] Claeson, T., *Phys. Stat. Sol.* **25**, K95 (1968).
- [1305] Johnston, D. C., Prakash, H., Zachariassen, W. H., and Viswanathan, R., *Mat. Res. Bull.* **8**, 777 (1973).
- [1306] Pollock, J. T. A., Shull, R., and Gatos, H. C., *Phys. Stat. Sol.* **A2**, 251 (1970).
- [1307] Corsan, J. M., and Cook, A. J., *Phys. Stat. Sol.* **40**, 657 (1970).
- [1308] Claeson, T., Munkby, L., and Wingbro, T., *Phys. Stat. Sol.* **42**, 321 (1970).
- [1309] Marezio, M., Dernier, P. D., Remeika, J. P., Corenzwit, E., and Matthias, B. T., *Mat. Res. Bull.* **8**, 657 (1973).
- [1310] Granqvist, C. G., and Claeson, T., *Phys. Stat. Sol.* **A11**, K113 (1972).
- [1311] Skoskiewicz, T., *Phys. Stat. Sol.* **A11**, K123 (1972).
- [1312] Schultz, L., and Freyhardt, H., *Phys. Stat. Sol.* **13**, 145 (1972).
- [1313] Finlayson, T. R., and Milne, I., *Solid State Commun.* **9**, 1339 (1971).
- [1314] Riblet, G., and Winzer, K., *Solid State Commun.* **9**, 1663 (1971).
- [1315] Viswanathan, R., and Luo, H., *Solid State Commun.* **9**, 1733 (1971).
- [1316] Indovina, P. L., Matzeu, M., Onori, S., and Tabet, E., *Solid State Commun.* **9**, 1759 (1971).
- [1317] Clayman, B. P., and Frindt, R. F., *Solid State Commun.* **9**, 1881 (1971).
- [1318] Adler, J. G., and Chen, T. T., *Solid State Commun.* **9**, 1961 (1971).
- [1319] Watson, J. H. P., and Hawk, R. M., *Solid State Commun.* **9**, 1993 (1971).
- [1320] Testardi, L. R., Hauser, J. J., and Read, M. H., *Solid State Commun.* **9**, 1829 (1971).
- [1321] Jerome, D., *Solid State Commun.* **9**, 2183 (1971).
- [1322] Vaccarone, R., Morozzo della Rocca, A., Pilot, A., Vivaldi, F., and Rizzuto, C., *Solid State Commun.* **12**, 885 (1973).
- [1323] Inoue, K., and Tachikawa, K., *Japan. J. Appl. Phys.* **12**, 161 (1973).
- [1324] Steiner, P., Gumprecht, D., and Hufner, S., *Phys. Rev. Letters* **30**, 1132 (1973).
- [1325] Colver, M. M., and Hammond, R. H., *Phys. Rev. Letters* **30**, 92 (1973).
- [1326] Sellers, G. J., Anderson, A. C., and Birnbaum, H. K., *Phys. Letters* **44A**, 173 (1973).
- [1327] Lazarev, B. G., Kuz'menko, V. M., Sudovtsov, A. I., and Mel'nikov, V. I., *Fiz. Metal. Metalloved.* **32**, 52 (1971); translation, the *Phys. of Metals and Metallography* **32**, (No. 1) **49**, (1971).
- [1328] Osipov, K. A., Orlov, A. F., Dmitriyev, V. P., Ivanouskaya, G. F., and Lozinskiy, Yu. N., *Fiz. Metal. Metalloved.* **32**, 878 (1971); translation, the *Phys. of Metals and Metallography* **32**, (No. 4) **210** (1971).
- [1329] Guertin, R. P., Crow, J. E., Sweedler, A. R., and Foner, S., *Solid State Commun.* **13**, 25 (1973).
- [1330] Lowell, J., *Phil. Mag.* **16**, 581 (1967).
- [1331] Echarri, A., Witcomb, M. J., Dew-Hughes, D., and Narlikar, A. V., *Phil. Mag.* **18**, 1089 (1968).
- [1332] Lowndes, D. H., Jr., Finegold, L., and Lye, R. G., *Phil. Mag.* **21**, 245 (1970).
- [1333] Finlayson, T. R., and Milne, I., *Phil. Mag.* **25**, 1291 (1972).
- [1334] Koch, C. C., and Carpenter, R. W., *Phil. Mag.* **25**, 303 (1972).
- [1335] Rothberg, B. D., *Phil. Mag.* **25**, 1473 (1972).
- [1336] Trojnar, E., Bazan, C., and Niemiec, J., *Bull. L'Acad. Polonaise des Sci. (Serie des Sciences Chimiques)* **13**, 481 (1965).
- [1337] Trojnar, E., and Niemiec, J., *Bull. L'Acad. Polonaise des Sci. (Serie des Sciences Chimiques)* **14**, 565 (1966).
- [1338] Bucher, E., Schmidt, P. H., Jayaraman, A., Andres, K., Maita, J. P., Nassau, K., and Dernier, P. D., *Phys. Rev.* **B2**, 3911 (1970).
- [1339] Foner, S., McNiff, E. J., Jr., Webb, G. W., Vieland, L. J., Miller, R. E., and Wicklund, A., *Phys. Letters* **38A**, 323 (1972).
- [1340] Bucher, E., Heine, V., Andres, K., Maita, J. P., and Cooper, A. S., *Phys. Rev.* **B6**, 103 (1972).
- [1341] Lasbley, A., Granger, R., and Rolland, S., *C. R. Acad. Sci. Paris* **276B**, 665 (1973).
- [1342] Takashima, T., *Japan. J. Appl. Phys.* **12**, 781 (1973).
- [1343] Koch, C. C., *J. Phys. Chem. Solids* **34**, 1445 (1973).
- [1344] Cavalier, J. R., Janocko, M. A., and Jones, C. K., *J. Vac. Sci. Technol.* **10**, 17 (1973).
- [1345] Spitzer, H. J., *J. Vac. Sci. Technol.* **10**, 20 (1973).
- [1346] Viswanathan, R., and Johnston, D. C., *Mat. Res. Bull.* **8**, 589 (1973).
- [1347] Hill, D. C., and Rose, R. M., *Metall. Trans.* **2**, 1433 (1971).
- [1348] Gamari-Seale, H., *J. Phys. Soc. Japan* **23**, 898 (1967).
- [1349] Matsuo, S., Hayashi, S., and Noguchi, S., *J. Phys. Soc. Japan* **31**, 1593 (1971).
- [1350] Satoh, T., and Ohtsuka, T., *J. Phys. Soc. Japan* **23**, 9 (1967).
- [1351] Sambongi, T., *J. Phys. Soc. Japan* **30**, 294 (1971).
- [1352] Masuda, Y., Nishioka, M., and Watanabe, N., *J. Phys. Soc. Japan* **22**, 238 (1967).

- [1353] Satoh, T., and Asada, Y., *J. Phys. Soc. Japan* **28**, 263 (1970).
- [1354] Nakajima, T., Isino, M., and Kanda, E., *J. Phys. Soc. Japan* **28**, 369 (1970).
- [1355] Yamaya, K., Samgongi, T., and Mitsui, T., *J. Phys. Soc. Japan* **29**, 879 (1970).
- [1356] Kubota, Y., Ogasawara, T., and Yasukochi, K., *J. Phys. Soc. Japan* **29**, 1209 (1970).
- [1357] Aoki, R., and Ohtsuka, T., *J. Phys. Soc. Japan* **23**, 955 (1967).
- [1358] Sugawara, T., and Eguchi, H., *J. Phys. Soc. Japan* **23**, 965 (1967).
- [1359] Ohtsuka, T., and Takano, N., *J. Phys. Soc. Japan* **23**, 983 (1967).
- [1360] Kawabe, U., Kudo, M., and Fukase, S., *J. Phys. Soc. Japan* **35**, 108 (1973).
- [1361] Satoh, T., and Kumagai, K., *J. Phys. Soc. Japan* **34**, 391 (1973).
- [1362] Wada, S., and Asayama, K., *J. Phys. Soc. Japan* **34**, 1168 (1973).
- [1363] Hartsough, L. D., and Hammond, R. H., *Solid State Commun.* **9**, 855 (1971).
- [1364] Mamiya, T., Aoi, T., Iwahashi, K., and Masuda, Y., *J. Phys. Soc. Japan* **31**, 485 (1971) and **31**, 1661 (1971).
- [1365] Takata, M., and Oshida, S., *J. Phys. Soc. Japan* **30**, 1640 (1971).
- [1366] Raub, Ch. J., Mons, W., and Lawson, A. C., *J. Less-Common Metals* **26**, 319 (1972).
- [1367] Black, W. C., and Mota, A. C., private communication quoted in ref. [1366].
- [1368] Mota, A. C., private communication quoted in ref. 1366.
- [1369] Roschel, E., and Raub, Ch. J., *Metall.* **26**, 29 (1972).
- [1370] Bucher, E., Andres, K., and DiSalvo, F. J., Lecture 4th Inter. Transition Metal Compound Conference, Geneva, April 9-13, 1973, and personal communication.
- [1371] Lubell, M. S., and Kroeger, D. M., *Advances in Cryogenic Eng.* **14**, 123 (1969).
- [1372] Havinga, E. E., private communication (for preparation see Havinga, E. E., et al., *J. Less-Common Metals* **27**, 169 (1972)).
- [1373] Van Maaren, M. H., Buschow, K. H. J., and Van Daal, H. J., *Solid State Commun.* **9**, 1901 (1971).
- [1374] Van Maaren, M. H., private communication, 1973. Preparation: W. Rudorff, et al., *Z. Anorg. Allg. Chem.* **269**, 141 (1952).
- [1375] Lawson, A. C., *J. Less-Common Metals* **32**, 173 (1973).
- [1376] Matthias, B. T., private communication, 1973. Quoted in ref. [1375].
- [1377] Havinga, E. E., Damsma, H., and Hokkeling, P., *J. Less-Common Metals* **27**, 169 (1972); see also *J. Less-Common Metals* **27**, 281 (1972).
- [1378] Gentry, W. O., Master of Science Thesis, 1964, Univ. of Illinois, Urbana, Illinois, 1964.
- [1379] Gier, T. E., Pease, D. C., Sleight, A. W., and Bither, T. A., *Inorganic Chem.* **7**, 1646 (1968).
- [1380] Garland, M. M., *Appl. Phys. Letters* **18**, 47 (1971).
- [1381] Inoue, K., and Tachikawa, K., *Appl. Phys. Letters* **18**, 235 (1971).
- [1382] Donohue, P. C., *Inorganic Chem.* **9**, 335 (1970).
- [1383] Cavalier, J. R., Janocko, M. A., and Jones, C. K., *Appl. Phys. Letters* **19**, 305 (1971).
- [1384] Cavalier, J. R., Janocko, M. A., and Jones, C. K., *Appl. Phys. Letters* **21**, 179 (1972).
- [1385] Cavalier, J. R., *Appl. Phys. Letters* **23**, 480 (1973).
- [1386] Ray, R., Hahn, S. H., and Giessen, B. C., *Acta Metall.* **20**, 1335 (1972).
- [1387] Milne, I., and Ward, D. A., *Cryogenics* **9**, 176 (1972).
- [1388] Brandli, G., Enck, F. D., and Griessen, R., *Helv. Phys. Acta* **44**, 784 (1971).
- [1389] Andres, K., and Bucher, E., *Helv. Phys. Acta* **42**, 590 (1969).
- [1390] Burton, R., *Helv. Phys. Acta* **40**, 1012 (1967).
- [1391] DeSorbo, W., Lawrence, P. E., and Healy, W. A., *J. Appl. Phys.* **38**, 903 (1967).
- [1392] DeSavage, D. F., and Goff, J. F., *J. Appl. Phys.* **38**, 1337 (1967).
- [1393] Smith, F. T. J., and Gatos, H. C., *J. Appl. Phys.* **39**, 3793 (1968).
- [1394] Boato, G., Bugo, M., and Rizzuto, C., *J. Appl. Phys.* **39**, 847 (1968).
- [1395] Livingston, J. D., *J. Appl. Phys.* **39**, 3836 (1968).
- [1396] Mitsuoka, T., Yamashita, T., Nakazawa, T., Onodera, Y., Saito, Y., and Anayama, T., *J. Appl. Phys.* **39**, 4788 (1968).
- [1397] Basavaiah, S., and Pollack, S. R., *J. Appl. Phys.* **39**, 5548 (1968).
- [1398] Suenaga, M., and Ralls, K. M., *J. Appl. Phys.* **40**, 4457 (1969).
- [1399] Bellin, P. H., Sadagopan, V., and Gatos, H. C., *J. Appl. Phys.* **40**, 3982 (1969).
- [1400] Takashima, T., and Hayashi, H., *Japan J. Appl. Phys.* **12**, 1659 (1973).
- [1401] Buckel, W., and Stritzker, B., *Phys. Letters* **43A**, 403 (1973).
- [1402] Stritzker, B., and Buckel, W., *Z. Phys.* **257**, 1 (1972).
- [1403] Feldmann, W. L., and Rowell, J. M., *J. Appl. Phys.* **40**, 312 (1969).
- [1404] Blaugher, R. D., Pessall, N., and Patterson, A., *J. Appl. Phys.* **40**, 2000 (1969).
- [1405] Zhasnik, J., Toth, L. E., Shy, Y. M., and Maxwell, E., *J. Appl. Phys.* **40**, 2147 (1969).
- [1406] Deis, D. W., Cavalier, J. R., Hulm, J. K., and Jones, C. K., *J. Appl. Phys.* **40**, 2153 (1969).
- [1407] Decker, D. L., and Laquer, H. L., *J. Appl. Phys.* **40**, 2817 (1969).
- [1408] Dubeck, L. W., Aston, D. R., and Rothwarf, F., *J. Appl. Phys.* **41**, 1593 (1970).
- [1409] Bellin, P. H., Gatos, H. C., and Sadagopan, V., *J. Appl. Phys.* **41**, 2057 (1970).
- [1410] Hanak, J. J., Gittleman, J. L., Pellicane, J. P., and Bozowski, S., *J. Appl. Phys.* **41**, 4958 (1970).
- [1411] Conella, M. J., Deck, R. J., and Morriss, R. H., *J. Appl. Phys.* **41**, 5346 (1970).
- [1412] Ho, J. C., and Collings, E. W., *J. Appl. Phys.* **42**, 5144 (1971).
- [1413] Nemoz, A., *Phil. Mag.* **28**, 867 (1973).
- [1414] Baker, C., and Sutton, J., *Phil. Mag.* **19**, 1223 (1969).
- [1415] Culbert, H. V., Farrell, D. E., and Chandrasekhar, B. S., *Solid State Comm.* **7**, 571 (1969).
- [1416] Palmy, C., and Fisher, E. S., *Solid State Comm.* **8**, 655 (1970).
- [1417] Hauser, J. J., *Solid State Comm.* **11**, 507 (1972).
- [1418] Maple, M. B., Fertig, W. A., Mota, A. C., DeLong, L. E., Wohlleben, D., and Fitzgerald, R., *Solid State Comm.* **11**, 829 (1972).
- [1419] Bhatnagar, A. K., Kahn, P., and Zammit, T. J., *Solid State Comm.* **8**, 79 (1970).
- [1420] Flukiger, R., Paoli, A., Roggen, R., Yvon, K., and Muller, J., *Solid State Comm.* **11**, 61 (1972).
- [1421] Martin, P. J., Campbell, A. M., and Evetts, J. E., *Solid State Comm.* **11**, 123 (1972).
- [1422] Riblet, G., and Winzer, K., *Solid State Comm.* **11**, 175 (1972).
- [1423] Yamaya, K., and Sambongi, T., *Solid State Comm.* **11**, 903 (1972).
- [1424] Luengo, C. A., Maple, M. B., and Fertig, W. A., *Solid State Comm.* **11**, 1445 (1972).
- [1425] Luengo, C. A., and Maple, M. B., *Solid State Comm.* **12**, 757 (1973).
- [1426] White, R. W., Lindsay, J. D. G., and Fowler, R. D., *Solid State Commun.* **13**, 531 (1973).
- [1427] Engelhardt, J. J., *Solid State Commun.* **13**, 1355 (1973).
- [1428] Happel, H., and Hoenig, H. E., *Solid State Comm.* **13**, 1641 (1973).
- [1429] Guertin, R. P., Boivin, W., Crow, J. E., Sweedler, A. R., and Maple, M. B., *Solid State Comm.* **13**, 1889 (1973).
- [1430] Thompson, A. H., *Solid State Commun.* **13**, 1911 (1973).
- [1431] Muller, J., Heiniger, F., and Staudenmann, J.-L., *Helv. Phys. Acta* **41**, 1052 (1968).
- [1432] Kammerdiner, L., and Luo, H. L., *J. Appl. Phys.* **43**, 4728 (1972).

- [1433] Yamashita, T., Kitahara, S., Onodera, Y., Goto, Y., and Aso, T., *J. Appl. Phys.* **43**, 4749 (1972).
- [1434] Walmsley, D. G., *J. Appl. Phys.* **43**, 615 (1972).
- [1435] Scanlan, R. M., and Livingston, J. D., *J. Appl. Phys.* **43**, 639 (1972).
- [1436] Mayadas, A. F., Laibowitz, R. B., and Cuomo, J. J., *J. Appl. Phys.* **43**, 1287 (1972).
- [1437] Enstrom, R. E., and Appert, J. R., *J. Appl. Phys.* **45**, 421 (1974).
- [1438] Testardi, L. R., Wernick, J. H., Royer, W. A., Bacon, D. D., and Storm, A. R., *J. Appl. Phys.* **45**, 447 (1974).
- [1439] Oya, G., and Onodera, Y., *J. Appl. Phys.* **45**, 1389 (1974).
- [1440] Haemmerle, W. H., Reed, W. A., Juodakis, A., and Kannewurf, C. R., *J. Appl. Phys.* **44**, 1356 (1973).
- [1441] Schmidt, P. H., Castellano, R. N., Barz, H., Cooper, A. S., and Spencer, E. G., *J. Appl. Phys.* **44**, 1833 (1973).
- [1442] McInturff, A. D., and Chase, G. C., *J. Appl. Phys.* **44**, 2378 (1973).
- [1443] Buttig, K., Liemersdorf, H., Kinder, H., and Reichelt, K., *J. Appl. Phys.* **44**, 5069 (1973).
- [1444] Saito, Y., and Anayama, T., *J. Appl. Phys.* **44**, 5111 (1973).
- [1445] Shy, Y. M., Toth, L. E., and Somasundaram, R., *J. Appl. Phys.* **44**, 5539 (1973).
- [1446] Smith, T. F., *J. Low Temp. Phys.* **6**, 171 (1972).
- [1447] Sample, H. H., Neuringer, L. J., Gerber, J. A., and Deneufville, J. P., *J. Non-Crystalline Solids* **8-10**, 50 (1972).
- [1448] McLachlan, D. S., *J. Low Temp. Phys.* **6**, 385 (1972).
- [1449] Smith, F. W., *J. Low Temp. Phys.* **6**, 435 (1972).
- [1450] Hulm, J. K., Jones, C. K., Hein, R. A., and Gibson, J. W., *J. Low Temp. Phys.* **7**, 291 (1972).
- [1451] Hauser, J. J., *J. Low Temp. Phys.* **7**, 335 (1972).
- [1452] Ehrat, R., and Rinderer, L., *J. Low Temp. Phys.* **7**, 533 (1972).
- [1453] Moodenbaugh, A. R., and Wittig, J., *J. Low Temp. Phys.* **10**, 203 (1973).
- [1454] Deutscher, G., Fenichel, H., Gershenson, M., Grunbaum, E., and Ovadyahu, Z., *J. Low Temp. Phys.* **10**, 231 (1973).
- [1455] Hatt, B. A., Page, J. K. R., and Rivlin, V. G., *J. Low Temp. Phys.* **10**, 271 (1973).
- [1456] Hatt, B. A., Page, J. K. R., and Rivlin, V. G., *J. Low Temp. Phys.* **10**, 285 (1973).
- [1457] Jones, R. E., Jr., and Finnemore, D. K., *J. Low Temp. Phys.* **10**, 543 (1973).
- [1458] Schooley, J. F., *J. Low Temp. Phys.* **12**, 421 (1973).
- [1459] Watson, J. H. P., *J. Appl. Phys.* **42**, 46 (1971).
- [1460] Meservey, R., and Tedrow, P. M., *J. Appl. Phys.* **42**, 51 (1971).
- [1461] Cavalier, J. R., Janocko, M. A., Patterson, A., and Jones, C. K., *J. Appl. Phys.* **42**, 54 (1971).
- [1462] Otto, G., *J. Appl. Phys.* **42**, 57 (1971).
- [1463] Kitada, M., and Doi, T., *J. Japan Inst. Metals* **36**, 891 (1972); **36**, 1064 (1972).
- [1464] Kitada, M., *J. Japanese Inst. Metals* **37**, 104 (1973).
- [1465] Horiuchi, T., Monju, Y., and Nagai, N., *J. Japanese Inst. Metals* **37**, 882 (1973).
- [1466] Yoshida, Y., and Tachikawa, K., *J. Japan Inst. Metals* **37**, 558 (1973).
- [1467] Granqvist, C. G., and Claeson, T., *J. Low Temp. Phys.* **10**, 735 (1973).
- [1468] Umlauf, E., Schneider, J., Meier, R., and Kreuzer, H., *J. Low Temp. Phys.* **5**, 191 (1971).
- [1469] Junod, A., Staudenmann, J.-L., Muller, J., and Spitzli, P., *J. Low Temp. Phys.* **5**, 25 (1971).
- [1470] Robinson, D. A., and Levy, M., *J. Low Temp. Phys.* **9**, 415 (1972).
- [1471] Hammond, R. H., Ralls, K. M., Meyer, C. H., Jr., Snowden, D. P., Kelly, G. M., and Pereue, J. H., Jr., *J. Appl. Phys.* **43**, 2407 (1972).
- [1472] Reed, T. B., Banus, M. D., Sjostrand, M., and Keesom, P. H., *J. Appl. Phys.* **43**, 2478 (1972).
- [1473] Mathur, M. P., Deis, D. W., and Cavalier, J. R., *J. Appl. Phys.* **43**, 3158 (1972).
- [1474] Glover, R. E., Moser, S., and Baumann, F., *J. Low Temp. Phys.* **5**, 519 (1971).
- [1475] Smith, F. W., *J. Low Temp. Phys.* **5**, 683 (1971).
- [1476] McCarthy, S. L., *J. Low Temp. Phys.* **4**, 489 (1971).
- [1477] Sugawara, T., and Yoshida, S., *J. Low Temp. Phys.* **4**, 657 (1971).
- [1478] McCarthy, S. L., *J. Low Temp. Phys.* **4**, 669 (1971).
- [1479] Alekseevskii, N. E., and Tsebro, V. I., *J. Low Temp. Phys.* **4**, 679 (1971).
- [1480] Vetrano, J. B., Guthrie, G. L., and Kissinger, H. E., *Phys. Letters* **26A**, 45 (1967).
- [1481] Weigaard, W., *Phys. Letters* **29A**, 396 (1969).
- [1482] Brandli, G., and Trofimenkoff, P. N., *Phys. Letters* **36A**, 431 (1971).
- [1483] Janocko, M. A., Cavalier, J. R., and Jones, C. K., *Phys. Letters* **36A**, 465 (1971).
- [1484] Fisk, Z., Lawson, A. C., Matthias, B. T., and Corenzwit, E., *Phys. Letters* **37A**, 251 (1971).
- [1485] Buckel, W., Hasse, J., and Reichert, V., *Phys. Letters* **37A**, 457 (1971).
- [1486] Lawson, A. C., and Zachariasen, W. H., *Phys. Letters* **38A**, 1 (1972).
- [1487] Maple, M. B., and Wohllenben, D., *Phys. Letters* **38A**, 351 (1972).
- [1488] Fertig, W. A., Moodenbaugh, A. R., and Maple, M. B., *Phys. Letters* **38A**, 517 (1972).
- [1489] Grassie, A. D. C., and Benyon, A., *Phys. Letters* **39A**, 199 (1972).
- [1490] Hillenbrand, B., and Wilhelm, M., *Phys. Letters* **40A**, 387 (1972).
- [1491] Granqvist, C. G., and Claeson, T., *J. Low Temp. Phys.* **13**, 1 (1973).
- [1492] Gubser, D. U., and Soulen, R. J., Jr., *J. Low Temp. Phys.* **13**, 211 (1973).
- [1493] Watson, H. L., Keeler, W. J., Beaudry, B. J., and Finnemore, D. K., *J. Low Temp. Phys.* **12**, 171 (1973).
- [1494] Triplett, B. B., Phillips, N. E., Throp, T. L., Shirley, D. A., and Brewer, W. D., *J. Low Temp. Phys.* **12**, 499 (1973).
- [1495] Smith, T. F., and Fisher, E. S., *J. Low Temp. Phys.* **12**, 631 (1973).
- [1496] Cox, J. E., and Waterstrat, R. M., *J. Low Temp. Phys.* **46A**, 21 (1973).
- [1497] Schirber, J. E., *Phys. Letters* **46A**, 285 (1973).
- [1498] Schirber, J. E., *Phys. Letters* **45A**, 141 (1973).
- [1499] Davidov, D., Rettori, C., Baberschke, K., Chock, E. P., and Orbach, R., *Phys. Letters* **45A**, 151 (1973).
- [1500] Muto, Y., Toyota, N., Noto, K., and Hoshi, A., *Phys. Letters* **45A**, 99 (1973).
- [1501] Ayer, W. J., Jr., and Rose, K., *Phys. Letters* **45A**, 333 (1973).
- [1502] Aomine, T., and Rinderer, L., *J. Low Temp. Phys.* **11**, 173 (1973).
- [1503] Foner, S., and McNiff, E. J., Jr., *Phys. Letters* **45A**, 429 (1973).
- [1504] Olsen, C. E., *Phys. Letters* **43A**, 205 (1973).
- [1505] Detrey, P., Gygax, S., and Jan, J.-P., *J. Low Temp. Phys.* **11**, 421 (1973).
- [1506] Cheeke, J. D. N., and Ducla-Soares, E., *J. Low Temp. Phys.* **11**, 687 (1973).
- [1507] Babic, E., Ford, P. J., Rizzuto, C., and Salamoni, E., *J. Low Temp. Phys.* **8**, 219 (1972).
- [1508] Andres, K., Hull, G. W., and Hulliger, F., *J. Materials Sci.* **7**, 344 (1972).
- [1509] Finlayson, T. R., and Milne, I., *J. Materials Sci.* **7**, 1391 (1972).
- [1510] Geballe, T. H., Matthias, B. T., Remeika, J. P., Clogston, A. M., Compton, V. B., Maita, J. P., and Williams, H. J., *Phys.* **2**, 293 (1966).
- [1511] Pessall, N., and Hulm, J. K., *Phys.* **2**, 311 (1966).
- [1512] Curzon, A. E., and Mascal, A. J., *J. Phys. C: (Solid St. Phys.)* **2**, 382 (1969).
- [1513] Sousa, J. B., *J. Phys. C: (Solid St. Phys.)* **2**, 629 (1969).

- [1514] Smith, T. F., Delong, L. E., Moodenbaugh, A. R., Geballe, T. H., and Schwall, R. E., *J. Phys. C: (Solid State Phys.)* **5**, 1,230 (1972).
- [1515] Van Ooijen, D. J., and Van Gurp, G. J., *Philips Res. Repts.* **21**, 343 (1966).
- [1516] Hill, J. S., Stoddart, C. T. H., and Stuart, P. R., *J. Phys. D: Appl. Phys.* **3**, 1168 (1970).
- [1517] Hull, G. W., and Hulliger, F., *Nature* **220**, 257 (1968).
- [1518] Tsuei, C. C., and Newkirk, L. R., *J. Materials Sci.* **8**, 1307 (1973).
- [1519] Huber, J. G., and Maple, M. B., *J. Phys. F: Metal. Phys.* **1**, 893 (1971).
- [1520] Smith, T. F., Luo, H. L., Maple, M. B., and Harris, I. R., *J. Phys. F: Metal. Phys.* **1**, 896 (1971).
- [1521] Bruning, H. A. C. M., *Philips Res. Repts.* **22**, 349 (1967).
- [1522] Van Vucht, J. H. N., Van Ooijen, D. J., and Bruning, H. A. C. M., *Philips Res. Repts.* **20**, 136 (1965).
- [1523] Van Ooijen, D. J., and Van Der Goot, A. S., *Philips Res. Repts.* **20**, 162 (1965).
- [1524] Spitzer, H. J., *J. Vac. Sci. Tech.* **9**, 333 (1972).
- [1525] Janocko, M. A., Gavalier, J. R., and Jones, C. K., *J. Vac. Sci. Tech.* **9**, 341 (1972).
- [1526] Schmidt, P. H., *J. Vac. Sci. Tech.* **10**, 611 (1973).
- [1527] Gavalier, J. R., Hulm, J. K., Janocko, M. A., and Jones, C. K., *J. Vac. Sci. Tech.* **6**, 177 (1969).
- [1528] Guyon, E., and Neunier, F., *J. Vac. Sci. Tech.* **6**, 677 (1969).
- [1529] Druyvesteyn, W. F., *Philips Res. Repts. Suppl. No. 2* (1966); pp. 1-117 and *Philips Res. Repts.* **19**, 359 (1964).
- [1530] Somoano, R. B., and Rembaum, A., *Phys. Rev. Letters* **27**, 402 (1971).
- [1531] Luengo, C. A., Huber, J. G., Maple, M. B., and Roth, M., *Phys. Rev. Letters* **32**, 54 (1974).
- [1532] Woollam, J. A., Somoano, R. B., and O'Connor, P., *Phys. Rev. Letters* **32**, 712 (1974).
- [1533] Wuhl, H., Jackson, J. E., and Briscoe, C. V., *Phys. Rev. Letters* **20**, 1496 (1968).
- [1534] Schirber, J. E., *Phys. Rev. Letters* **28**, 1127 (1972).
- [1535] Frindt, R. F., *Phys. Rev. Letters* **28**, 299 (1972).
- [1536] Edwards, J., and Frindt, R. F., *J. Phys. Chem. Solids* **32**, 2217 (1971).
- [1537] Kosterz, G., Isaacs, L. L., Panosh, R. L., and Koch, C. C., *Phys. Rev. Letters* **27**, 304 (1971).
- [1538] Zally, G. D., and Mochel, J. M., *Phys. Rev. Letters* **27**, 1710 (1971).
- [1539] Inhaber, H., and Carroll, K. J., *Physica* **64**, 508 (1973).
- [1540] Inhaber, H., and Carroll, K. J., *Physica* **64**, 520 (1973).
- [1541] Glover, R. E., *Physica* **55**, 3 (1971).
- [1542] Hulm, J. K., Walker, M. S., and Pessall, N., *Physica* **55**, 60 (1971).
- [1543] Goldman, A. M., Schaer, F. M., Toth, L. E., and Zbasnik, J., *Physica* **55**, 234 (1971).
- [1544] Grassie, A. D. C., Green, D. B., and Benyon, A., *Physica* **55**, 243 (1971).
- [1545] Naugle, D. G., Glover, R. E., and Moorman, W., *Physica* **55**, 250 (1971).
- [1546] Warburton, R. J., Patton, B. R., Webb, W. W., and Wilkins, J. W., *Physica* **55**, 324 (1971).
- [1547] Muto, Y., Mori, K., and Noto, K., *Physica* **55**, 362 (1971).
- [1548] Chen, T. T., Leslie, J. D., and Smith, H. J. T., *Physica* **55**, 439 (1971).
- [1549] Ostenson, J. E., Hopkins, J. R., and Finnemore, D. K., *Physica* **55**, 502 (1971).
- [1550] Sousa, J. B., *Physica* **55**, 507 (1971).
- [1551] Foner, S., McNiff, E. J., Jr., Geballe, T. H., Willens, R. H., and Buehler, E., *Physica* **55**, 534 (1971).
- [1552] Meyer, G., *Naturwiss.* **54**, 489 (1967).
- [1553] Sadagopan, V., Gatos, H. C., and Olson, G., *J. Appl. Phys.* **41**, 1874 (1970).
- [1554] Devenyi, A., Theiner, W., Sharma, S. K., Aalfeld, J., and Manaila-Devenyi, R., *Thin Solid Films* **15**, 39 (1973).
- [1555] Vitovskii, N. A., Vikhlii, G. A., Mashovets, T. V., and Ryvkin, S. M., *Fiz. Tekh. Poluprov.* **7**, 868 (1973); translation *Sov. Phys. Semicond.* **7**, 593 (1973).
- [1556] Banus, M. D., and Lavine, M. C., *J. Appl. Phys.* **40**, 409 (1969).
- [1557] Yamaya, K., and Sambongi, T., *J. Phys. Soc. Japan* **32**, 1150 (1972) and **37**, 36 (1974).
- [1558] Jones, D. M., doctoral thesis, the Univ. of Wisconsin, 1965.
- [1559] Siemens, R. E., Oden, L. L., and Deardorff, D. K., Bureau of Mines Report of Investigations, RI 7258, U.S. Dept. Interior, May 1969.
- [1560] Goodrich, G. W., and Lange, J. N., *Phys. Rev.* **188**, 728 (1969).
- [1561] Cappelletti, R. L., and Finnemore, D. K., *Phys. Rev.* **188**, 723 (1969).
- [1562] Harris, R. E., and Ginsberg, D. M., *Phys. Rev.* **188**, 737 (1969).
- [1563] Watson, H. L., Peterson, D. T., and Finnemore, D. K., *Phys. Rev.* **3B**, 3179 (1973).
- [1564] Heiniger, F., Bucher, E., Maita, J. P., and Descouts, P., *Phys. Rev.* **8B**, 3194 (1973).
- [1565] Hanak, J. J., and Gittleman, J. I., *Physica* **55**, 555 (1971).
- [1566] Phillips, N. E., Triplett, B. B., Clear, R. D., Simon, H. E., Hulm, J. K., Jones, C. K., and Mazelsky, R., *Physica* **55**, 571 (1971).
- [1567] Gavalier, J. R., Janocko, M. A., Hulm, J. K., and Jones, C. K., *Physica* **55**, 585 (1971).
- [1568] Edelstein, A., and Culbert, H., *Physica* **55**, 592 (1971).
- [1569] Wilhelm, M., and Hillenbrand, B., *Physica* **55**, 608 (1971).
- [1570] Riblet, G., and Jensen, M. A., *Physica* **55**, 622 (1971).
- [1571] Palmy, C., Flach, R., and Detrey, P., *Physica* **55**, 663 (1971).
- [1572] Garfunkel, M. P., and Pike, G. E., *Physica* **55**, 656 (1971).
- [1573] Klein, J., and Leger, A., *Physica* **55**, 740 (1971).
- [1574] Williamson, S. J., *Physica* **55**, 780 (1971).
- [1575] Karasik, V. R., Vasil'ev, N. G., and Vysotskii, V. S., *Zh. Eksp. Teor. Fiz.* **62**, 1818 (1972); translation *Sov. Phys. JETP* **35**, 945 (1972).
- [1576] Magradze, O. V., and Chigvinadze, Dzh. G., *Fiz. Tverdogo Tela* **15**, 48 (1973); translation *Sov. Phys. Solid State* **15**, 32 (1973).
- [1577] Shebalin, I. Yu., candidate's dissertation (in Russian) FIAN SSR (1970); quoted in *Fiz. Tverdogo Tela* **15**, 1062 (April 1973).
- [1578] Bogomolov, V. N., *Fiz. Tverdogo Tela* **15**, 1312 (1973); translation *Sov. Phys. Solid State* **15**, 893 (1973).
- [1579] Narasimhan, S. L., Taggart, R., and Polonis, D. H., *J. Nuclear Materials* **43**, 258 (1972).
- [1580] Coles, B. R., personal communication.
- [1581] Mendelssohn, K., *Rev. Mod. Phys.* **36**, 144 (1964).
- [1582] Bucher, E., and Staudenmann, J. L., private communication in Hulliger F. *Structure and Bonding* **4**, 83-229 (Springer-Verlag, N. Y., 1968).
- [1583] Hulliger, F., and Muller, J., unpublished. Quoted in Hulliger, F., *Structure and Bonding* **4**, 83-229 (Springer-Verlag, N.Y., 1968).
- [1584] Andres, K., Hull, G. W., Jr., and Hulliger, F., unpublished. Quoted in Hulliger, F., *Structure and Bonding* **4**, 83-229 (1968).
- [1585] Cannon, J. F., Robertson, D. L., Hall, H. T., and Lawson, A. C., *J. Phys. Chem. Solids* **35**, 1181 (1974).
- [1586] Rapp, O., Invarsson, J., and Claesson, T., *Phys. Letters* **50A**, 159 (1974).
- [1587] Kjekshus, A., and Pearson, W. B., *Canad. J. Phys.* **43**, 438 (1965).
- [1588] Zhuravlev, N. N., Zhdanov, G. S., and Kuz'min, R. N., *Kristallografiya* **5**, 553 (1960); translation *Sov. Phys. Crystallography* **5**, 532 (1960).
- [1589] Andres, K., and Bucher, E., private communication. Quoted in Hulliger, F., *Structure and Bonding* **4**, 83-229 (Springer-Verlag, N.Y., 1968).
- [1590] Alekseevskii, N. E., *Elektrrotechnicheskaya Casopis* **21**, 323 (1970).
- [1591] Barskii, I. M., Dikovskii, V. Ya., and Matytsin, A. I., *Fizika*

- Goreniya i Vzryva **8**, 578 (1972); translation Comb. Explosion and Shock Waves, U.S.S.R. **8**, 474 (1972).
- [1592] Ajami, F. I., and MacCrone, R. K., *J. Phys. Chem. Solids* **36**, 7 (1975).
- [1593] Ajami, F., *Electronic Properties of VN*. (Ph.D. Dissertation, Univ. of Penn., Phil. 1972), p. 120.
- [1594] Doi, T., Mitani, M., and Umezawa, T., *Nihon Kinzoku Gakkai Shi* **30**, 133 (1966); **30**, 139 (1966).
- [1595] Parr, H., *Phys. Rev.* **B10**, 4572 (1974).
- [1596] Sulkowski, C., and Mazur, J., *Phys. Letters* **49A**, 73 (1974).
- [1597] Foner, S., McNiff, E. J., Jr., and Alexander, E. J., *Phys. Letters* **49A**, 269 (1974).
- [1598] Lawson, A. C., Engel, U., and Baberschke, K., *Phys. Letters* **49A**, 373 (1974).
- [1599] Vieland, L. J., and Wioldund, A. W., *Phys. Letters* **49A**, 407 (1974).
- [1600] Kawamura, H., and Tachikawa, K., *Phys. Letters* **50A**, 29 (1974).
- [1601] Kawaguti, T., and Shibuya, Y., *Phys. Letters* **50A**, 103 (1974).
- [1602] Close, W., Entel, P., and Nohl, H., *Phys. Letters* **50A**, 186 (1974).
- [1603] Chu, C. W., *Phys. Rev. Letters* **33**, 1283 (1974).
- [1604] Claeson, T., *Physica Scripta* **9**, 353 (1974).
- [1605] Hulm, J. K., Jones, C. K., Deis, D. W., Fairbank, H. A., and Lawless, P. A., *Phys. Rev.* **169**, 388 (1968).
- [1606] Carriker, R. C., and Reynolds, C. A., *Phys. Rev.* **B2**, 3991 (1970).
- [1607] Fassnacht, R. E., and Dillinger, J. R., *Phys. Rev.* **B2**, 4442 (1970).
- [1608] Brandt, N. B., and Ginzburg, N. I., *Zh. Eksp. Teor. Fiz.* **44**, 1876 (1963); translation, *Sov. Physics JETP* **17**, 1262 (1963).
- [1609] Zavaritskii, N. V., *Zh. Eksp. Teor. Fiz.* **39**, 1193 (1960); translation *Sov. Phys. JETP* **12**, 831 (1961).
- [1610] Farrell, D. E., Chandrasekhar, B. S., and Culbert, H. V., *Phys. Rev.* **177**, 694 (1969).
- [1611] Fietz, W. A., and Webb, W. W., *Phys. Rev.* **178**, 657 (1969).
- [1612] DeLaCruz, F., Maloney, M. D., and Cardona, M., *Phys. Rev.* **187**, 766 (1969).
- [1613] Collings, E. W., and Ho, J. C., *Phys. Rev.* **B1**, 4289 (1970).
- [1614] Watson, J. H. P., *Phys. Rev.* **B2**, 1282 (1970).
- [1615] Masker, W. E., and Parks, R. D., *Phys. Rev.* **B1**, 2164 (1970).
- [1616] Rohy, D., and Cotts, R. M., *Phys. Rev.* **B1**, 2484 (1970).
- [1617] Luo, H. L., and Andres, K., *Phys. Rev.* **B1**, 3002 (1970).
- [1618] Burekbuchler, F. V., Markowitz, D., and Reynolds, C. A., *Phys. Rev.* **175**, 543 (1968).
- [1619] Maloney, M. D., DeLaCruz, F., and Cardona, M., *Phys. Rev.* **B2**, 2512 (1970).
- [1620] Gubser, D. U., Mapother, D. E., and Connelly, D. L., *Phys. Rev.* **B2**, 2547 (1970).
- [1621] Craven, R. A., Thomas, G. A., and Parks, R. D., *Phys. Rev.* **B4**, 2185 (1971).
- [1622] Hauser, J. J., *Phys. Rev.* **B3**, 1611 (1971); erratum *Phys. Rev.* **B4**, 2314 (1971).
- [1623] Ishikawa, M., and Toth, L. E., *Phys. Rev.* **B3**, 1856 (1971).
- [1624] Riblet, G., *Phys. Rev.* **B3**, 91 (1971).
- [1625] Koch, C. C., and Scarbrough, J. O., *Phys. Rev.* **B3**, 742 (1971).
- [1626] Hermon, E., Muir, W. B., Quaroni, J., and Sweet, R. C., *Can. J. Phys.* **52**, 1800 (1974).
- [1627] Matsuo, S., Miyata, H., and Noguchi, S., *Japanese J. Appl. Phys.* **13**, 351 (1974).
- [1628] Gavalier, J. R., Janocko, M. A., and Jones, C. K., *J. Appl. Phys.* **47**, 3009 (1974).
- [1629] Braginski, A. I., and Roland, G. W., *Appl. Phys. Letters* **25**, 762 (1974).
- [1630] Tachikawa, K., and Inoue, K., *Appl. Phys. Letters* **25**, 94 (1974).
- [1631] Van Daal, H. J., and Buschow, K. H. J., *Phys. Letters* **31A**, 103 (1970).
- [1632] Culbert, H. V., Farrell, D. E., and Chandrasekhar, B. S., *Phys. Rev.* **B3**, 794 (1971).
- [1633] Deutscher, G., Hsieh, S. Y., Lindenfeld, P., and Wolf, S., *Phys. Rev.* **B8**, 5055 (1973).
- [1634] Tedrow, P. M., and Meservey, R., *Phys. Rev.* **B8**, 5098 (1973).
- [1635] Waleh, A., and Zebouni, N. H., *Phys. Rev.* **B4**, 2977 (1971).
- [1636] Ochiai, S. I., Macvicar, M. L. A., and Rose, R. M., *Phys. Rev.* **B4**, 2988 (1971).
- [1637] Wollan, J. J., and Finnemore, D. K., *Phys. Rev.* **B4**, 2996 (1971).
- [1638] Carsey, F., Kagiwada, R., Levy, M., and Maki, K., *Phys. Rev.* **B4**, 854 (1971).
- [1639] Williamson, S. J., *Phys. Rev.* **B2**, 3545 (1970).
- [1640] Babic, E., Krsnik, R., Leontic, B., and Zoric, I., *Phys. Rev.* **B2**, 3580 (1970).
- [1641] Hopkins, D. C., Rice, R. P., Carter, J. M., and Hayes, J. D., *Phys. Rev.* **183**, 516 (1969).
- [1642] Hindley, N. K., and Watson, J. H. P., *Phys. Rev.* **183**, 525 (1969).
- [1643] Tsuei, C. C., and Newkirk, L. R., *Phys. Rev.* **183**, 619 (1969).
- [1644] Cody, G. D., and Miller, R. E., *Phys. Rev.* **173**, 481 (1968).
- [1645] Miller, R. E., and Cody, G. D., *Phys. Rev.* **173**, 494 (1968).
- [1646] Chu, C. W., McMillan, W. L., and Luo, H. L., *Phys. Rev.* **B3**, 3757 (1971).
- [1647] Harper, J. M. E., *Phys. Letters* **47A**, 69 (1974).
- [1648] Sixl, H., Gromer, J., and Wolf, H. C., *Phys. Letters* **47A**, 47 (1974).
- [1649] Granquist, C.-G., and Claeson, T., *Phys. Letters* **47A**, 97 (1974).
- [1650] Kirschner, I., *Phys. Letters* **47A**, 139 (1974).
- [1651] Monceau, P., *Phys. Letters* **47A**, 193 (1974).
- [1652] Takashima, T., and Hayashi, H., *Phys. Letters* **47A**, 209 (1974).
- [1653] Foner, S., McNiff, E. J., Jr., Gavalier, J. R., and Janocko, M. A., *Phys. Letters* **47A**, 485 (1974).
- [1654] Mota, A. C., Brewster, P., and Wang, R., *Phys. Letters* **41A**, 99 (1972).
- [1655] Black, W., and Mota, A. C., unpublished results (1968), quoted in ref. 1654.
- [1656] Marples, J. A. C., and Koch, C. C., *Phys. Letters* **41A**, 307 (1972).
- [1657] Schmidt, P. H., Castellano, R. N., Barz, H., Matthias, B. T., Huber, J. G., and Fertig, W. A., *Phys. Letters* **41A**, 367 (1972).
- [1658] Hillenbrand, B., and Wilhelm, M., *Phys. Letters* **41A**, 419 (1972).
- [1659] Johnston, D. C., and Moodenbaugh, A., *Phys. Letters* **41A**, 447 (1972).
- [1660] Sweedler, A. R., Schweitzer, D. G., and Webb, G. W., *Phys. Rev. Letters* **33**, 169 (1974).
- [1661] Claeson, T., Munkby, L., and Wingbro, T., *Physica Scripta* **7**, 80 (1973).
- [1662] Rapp, O., and Pokorny, M., *Physica Scripta* **6**, 200 (1972).
- [1663] Sood, B. R., *Phys. Rev.* **B6**, 136 (1972).
- [1664] Odermatt, R., Fischer, O., Jones, H., and Bongi, G., *J. Phys. C: Solid State Phys.* **7**, L13 (1974).
- [1665] Bither, T. A., Donohue, P. C., Cloud, W. H., Bierstedt, P. E., and Young, H. S., *J. Solid State Chem.* **1**, 526 (1970).
- [1666] Bychkov, Yu. F., Kamenetskaya, D. S., Kruglov, V. S., and Sizov, B. T., *Fiz. Metal. Metalloved.* **36**, 754 (1973); translation *Phys. Met. Metallography* **36**(4), 72 (1973).
- [1667] Osipov, K. A., Orlov, A. F., Borovich, T. L., Milay, A. K., and Sobiyeva, L. S., *Fiz. Metal. Metalloved.* **35**, 1174 (1973); translation *Phys. Met. Metallography* **35**(6), 50 (1973).
- [1668] Testardi, L. R., Wernick, J. H., and Royer, W. A., *Solid State Commun.* **15**, 1 (1974).
- [1669] Hill, H. H., White, R. W., Lindsay, J. D. G., and Struebing, V. O., *Solid State Commun.* **15**, 49 (1974).
- [1670] Mackliet, C. A., Gillespie, D. J., and Schindler, A. I., *Solid State Commun.* **15**, 207 (1974).

- [1671] Huber, J. G., Fertig, W. A., and Maple, M. B., *Solid State Commun.* **15**, 453 (1974).
- [1672] Shanks, H. R., *Solid State Commun.* **15**, 753 (1974).
- [1673] Dietrich, M., Gey, W., Rietschel, H., and Satterthwaite, C. B., *Solid State Commun.* **15**, 941 (1974).
- [1674] Gubser, D. U., and Hein, R. A., *Solid State Commun.* **15**, 1039 (1974).
- [1675] Cruceanu, E., Antesberger, G., and Papastaikoudis, C., *Solid State Commun.* **15**, 1047 (1974).
- [1676] Armbruster, H., Lohneysen, H. V., Riblet, G., and Steglich, F., *Solid State Commun.* **14**, 55 (1974).
- [1677] Van Maaren, M. H., Van Daal, H. J., Buschow, K. H. J., and Schinkel, C. J., *Solid State Commun.* **14**, 145 (1974).
- [1678] Pepperl, G., Umlauf, E., Meyer, A., and Keller, J., *Solid State Commun.* **14**, 161 (1974).
- [1679] Lazarev, B. G., Lazareva, L. S., Semenenko, E. E., Tutov, V. I., and Goridov, S. I., *Dok. Akad. Nauk SSSR* **196**, 1063 (1971); translation *Sov. Phys.-Doklady* **16**, 147 (1971).
- [1680] Lazarev, B. G., Semenenko, E. E., and Tutov, V. I., *Dok. Akad. Nauk SSSR* **196**, 1329 (1971); translation *Sov. Phys.-Doklady* **16**, 162 (1971).
- [1681] Volkenshtein, N. V., and Startsev, V. E., *Zh. ETF Pis'ma Red.* **7**, 426 (1968); translation *JETP Letters* **7**, 334 (1968).
- [1682] Nikulin, E. I., Volkenshtein, N. V., and Startsev, V. E., *Zh. ETF Pis'ma Red.* **17**, 470 (1973); translation *JETP Letters* **17**, 337 (1973).
- [1683] Alekseevskii, N. E., and Zakosarenko, V. M., *Zh. ETF Pis'ma Red.* **18**, 94 (1973); translation *JETP Letters* **18**, 53 (1973).
- [1684] Dmitrenko, I. M., and Shchetkin, I. S., *Zh. ETF Pis'ma Red.* **18**, 497 (1973); translation *JETP Letters* **18**, 292 (1973).
- [1685] Goianov, V. M., Elesin, L. A., and Mikheeva, M. N., *Zh. ETF Pis'ma Red.* **18**, 569 (1973); translation *JETP Letters* **18**, 335 (1973).
- [1686] Bogomolov, V. N., Malkovich, R. Sh., and Chudnovskii, F. A., *Fiz. Tverdogo Tela* **11**, 2835 (1969); translation *Sov. Phys.-Solid State* **11**, 2295 (1970).
- [1687] Bogomolov, V. N., Krivosheev, V. K., Malkovich, R. Sh., and Chudnovskii, F. A., *Fiz. Tverdogo Tela* **11**, 3648 (1969); translation *Sov. Phys.-Solid State* **11**, 3064 (1970).
- [1688] Berman, I. V., Bynzarov, Zh. I., and Kurkin, Yu. P., *Fiz. Tverdogo Tela* **14**, 2527 (1972); translation *Sov. Phys.-Solid State* **14**, 2192 (1973).
- [1689] Zarubina, O. A., *Fiz. Tverdogo Tela* **14**, 2890 (1972); translation *Sov. Phys.-Solid State* **14**, 2497 (1973).
- [1690] Brandt, N. B., and Zarubina, O. A., *Fiz. Tverdogo Tela* **15**, 3423 (1973); translation *Sov. Phys. Solid State* **15**, 2281 (1974).
- [1691] Degtyareva, V. F., Karimov, Yu. S., and Rabin'kin, A. G., *Fiz. Tverdogo Tela* **15**, 3436 (1973); translation *Sov. Phys.-Solid State* **15**, 2293 (1974).
- [1692] Flukiger, R., Paoli, A., and Muller, J., *Solid State Comm.* **14**, 443 (1974).
- [1693] Viswanathan, R., Wu, C. T., Luo, H. L., and Webb, G. W., *Solid State Comm.* **14**, 1051 (1974).
- [1694] Jones, H., Fischer, O., and Bongi, G., *Solid State Comm.* **14**, 1061 (1974).
- [1695] Schrauzer, G. N., and Prakash, H., *Solid State Comm.* **14**, 1259 (1974).
- [1696] Brandt, N. B., and Ginzburg, N. I., *Zh. Eksp. Teor. Fiz.* **51**, 59 (1966); translation *Sov. Phys. JETP* **24**, 40 (1967).
- [1697] Golanov, V. M., Demidov, A. P., Mikheeva, M. N., and Teplov, A. A., *Zh. Eksp. Teor. Fiz.* **58**, 528 (1970); translation *Sov. Phys. JETP* **31**, 283 (1970).
- [1698] Volkenshtein, N. V., and Galoshina, E. V., *Zh. Eksp. Teor. Fiz.* **47**, 812 (1964); translation *Sov. Phys. JETP* **20**, 543 (1965).
- [1699] Golovashkin, A. I., Donner, E. D., Levchenko, I. S., and Motulevich, G. P., *Zh. Eksp. Teor. Fiz.* **59**, 1967 (1970); translation *Sov. Phys. JETP* **32**, 1064 (1971).
- [1700] Sukharevskii, B. Ya., Shchetkin, I. S., and Fal'ko, I. I., *Zh. Eksp. Teor. Fiz.* **60**, 277 (1971); translation *Sov. Phys. JETP* **33**, 152 (1971).
- [1701] Rabin'kin, A. G., and Laukhin, V. N., *Zh. Eksp. Teor. Fiz.* **61**, 642 (1971); translation *Sov. Phys. JETP* **34**, 342 (1972).
- [1702] Il'ina, M. A., Itskevich, E. S., and Dizhur, E. M., *Zh. Eksp. Teor. Fiz.* **61**, 2357 (1971); translation *Sov. Phys. JETP* **34**, 1263 (1972).
- [1703] Dubrovskaya, L. B., Rabin'kin, A. G., and Gel'd, P. V., *Zh. Eksp. Teor. Fiz.* **62**, 300 (1972); translation *Sov. Phys. JETP* **35**, 161 (1972).
- [1704] Chernoplekov, N. A., Panova, G. Kh., Samoilov, B. N., and Shikov, A. A., *Zh. Eksp. Teor. Fiz.* **64**, 195 (1973); translation *Sov. Phys. JETP* **37**, 102 (1973).
- [1705] Galev, V. N., and Rabin'kin, A. G., *Zh. Eksp. Teor. Fiz.* **65**, 1061 (1973); translation *Sov. Phys. JETP* **38**, 525 (1974).
- [1706] Testardi, L. R., Kunzler, J. E., Levinstein, H. J., Maita, J. P., and Wernick, J. H., *Phys. Rev.* **B3**, 107 (1971).
- [1707] Alekseevskii, N. E., Guseva, L. N., and Matveeva, N. M., *Dok. Akad. Nauk SSSR* **178**, 1047 (1968); translation *Sov. Phys. Doklady* **13**, 162 (1968).
- [1708] Maloney, M. D., DeLaCruz, F., and Cardona, M., *Phys. Rev.* **B5**, 3558 (1972).
- [1709] Chanin, G., and Torre, J. P., *Phys. Rev.* **B5**, 4357 (1972).
- [1710] Boorse, H. A., Cook, D. B., and Zemansky, M. W., *Phys. Rev.* **78**, 635 (1950).
- [1711] Anderson, R. A., and Ginsberg, D. M., *Phys. Rev.* **B5**, 4421 (1972).
- [1712] Collings, E. W., Ho, J. C., and Jaffee, R. I., *Phys. Rev.* **B5**, 4435 (1972).
- [1713] Fearday, J. H., and Rollins, R. W., *Phys. Rev.* **B8**, 162 (1973).
- [1714] Townsend, P., Gregory, S., and Taylor, R. G., *Phys. Rev.* **B5**, 54 (1972).
- [1715] Bjerkaas, A. W., Ginsberg, D. M., and Mrstik, B. J., *Phys. Rev.* **B5**, 854 (1972).
- [1716] Watson, J. H. P., *Phys. Rev.* **B5**, 879 (1972).
- [1717] Morris, R. C., Coleman, R. V., and Bhandari, R., *Phys. Rev.* **B5**, 895 (1972).
- [1718] Chen, W. Y. K., and Tsuei, C. C., *Phys. Rev.* **B5**, 901 (1972).
- [1719] Sekula, S. T., and Kernohan, R. H., *Phys. Rev.* **B5**, 904 (1972).
- [1720] Muller, A., and Voigt, H., *Phys. Kondens. Materie* **14**, 185 (1972).
- [1721] Flukiger, R., Yvon, K., Susz, Ch., Roggen, R., Paoli, A., and Muller, J., *J. Less-Common Metals* **32**, 207 (1973).
- [1722] Smith, T. F., Shelton, R. N., and Lawson, A. C., *J. Phys. F: Metal Phys.* **3**, 2157 (1973).
- [1723] Clayman, B. P., *Can. J. Phys.* **50**, 3193 (1972).
- [1724] Chol, G., *J. Phys. (Paris)* **25**, 374 (1964).
- [1725] Alekseevskii, N. E., Dobrovol'skii, N. M., and Tsebro, V. I., *Zh. ETF Pis. Red.* **20**, 59 (1974); translation *JETP Letters* **20**, 25 (1974).
- [1726] Mikhailov, N. N., Voronova, I. V., Lavrova, O. A., Mel'nikov, E. V., and Smirnova, M. N., *Zh. ETF Pis. Red.* **19**, 510 (1974); translation *JETP Letters* **19**, 271 (1974).
- [1727] Alekseevskii, N. E., Smarskii, Yu. A., Wolf, H., Tsebro, V. I., and Zakosarenko, V. M., *Zh. ETF Pis. Red.* **19**, 676 (1974); translation *JETP Letters* **19**, 350 (1974).
- [1728] Bulaevskii, L. N., and Guseinov, A. A., *Zh. ETF Pis. Red.* **19**, 742 (1974); translation *JETP Letters* **19**, 382 (1974).
- [1729] Alekseevskii, N. E., Zakosarenko, V. M., and Tsebro, V. I., *Zh. ETF Pis. Red.* **13**, 412 (1971); translation *JETP Letters* **13**, 292 (1971).
- [1730] Berman, I. V., Brandt, N. B., and Sidorov, V. I., *Zh. ETF Pis. Red.* **14**, 18 (1971); translation *JETP Letters* **14**, 11 (1971).
- [1731] Kodess, B. N., and Shekhtman, V. Sh., *Zh. ETF Pis. Red.* **14**, 338 (1971); translation *JETP Letters* **14**, 225 (1971).

- [1732] Orlov, A. F., *Zh. ETF Pis. Red.* **14**, 496 (1971); translation JETP Letters **14**, 339 (1971).
- [1733] Mikhcheva, M. N., Tsetlin, M. B., Teplov, A. A., Golyanov, V. M., and Demidov, A. P., *Zh. ETF Pis. Red.* **15**, 303 (1972); translation JETP Letters **15**, 213 (1972).
- [1734] Golyanov, V. M., Demidov, A. P., Mikhcheva, M. N., and Teplov, A. A., *Zh. ETF Pis. Red.* **15**, 365 (1972); translation JETP Letters **15**, 257 (1972).
- [1735] Popova, S. V., Fomicheva, L. N., and Khvostantsev, L. G., *Zh. ETF Pis. Red.* **16**, 609 (1972); translation JETP Letters **16**, 429 (1972).
- [1736] Milne, I., and Finlayson, T. R., *Phil. Mag.* **29**, 965 (1974).
- [1737] Antesberger, G., and Ullmaier, H., *Phil. Mag.* **29**, 1101 (1974).
- [1738] Alekseevskii, N. E., Ivanov, O. S., Reevskii, I. I., and Stepanov, M. V., *Fiz. Metal. Metalloved.* **23**, 28 (1967); translation *Phys. Met. Metallography* **23**, (1) 29 (1967).
- [1739] Lazarev, B. G., Semenko, Ye. Ye., and Kuzemko, V. M., *Fiz. Metal. Metalloved.* **23**, 650 (1967); translation *Phys. Met. Metallography* **23**, (4) 76 (1967).
- [1740] Sudareva, S. V., Buynov, N. N., and Romanov, Ye. P., *Fiz. Metal. Metalloved.* **23**, 871 (1967); translation *Phys. Met. Metallography* **23**, (5) 96 (1967).
- [1741] Lazarev, B. G., Semenenko, Ye. Ye., and Kuz'menko, V. M., *Fiz. Metal. Metalloved.* **25**, 273 (1968); translation *Phys. Met. Metallography* **25**, (2) 83 (1968).
- [1742] Medvedev, S. A., Kiseleva, K. V., and Lykhin, V. A., *Fiz. Metal. Metalloved.* **24**, 1050 (1967); translation *Phys. Met. Metallography* **24**, (6) 65 (1967).
- [1743] Potapov, N. N., *Fiz. Metal. Metalloved.* **24**, 1012 (1967); translation *Phys. Met. Metallography* **24**, (6) 32 (1967).
- [1744] Moiseyev, A. I., and Ugo'lnikova, T. A., *Fiz. Metal. Metalloved.* **28**, 1111 (1969); translation *Phys. Met. Metallography* **28**, (6) 166 (1969).
- [1745] Leksina, I. Ye., Motulevich, G. P., Shubin, A. A., Baranov, I. A., Sytnikov, V. A., and Shmulevich, R. S., *Fiz. Metal. Metalloved.* **29**, 97 (1970); translation *Phys. Met. Metallography* **29**, (1) 100 (1970).
- [1746] Ponyatovskiy, Ye. G., and Rabin'kin, A. G., *Fiz. Metal. Metalloved.* **30**, 606 (1970); translation *Phys. Met. Metallography* **30**, (3) 158 (1970).
- [1747] Stepanov, N. V., Rayevskiy, I. I., Dubrovin, A. V., Ivanov, O. S., and Alekseevskii, N. E., *Fiz. Metal. Metalloved.* **31**, 64 (1971); translation *Phys. Met. Metallography* **31**, (1) 63 (1971).
- [1748] Rayevskiy, I. I., Stepanov, N. V., Dubrovin, A. V., Ivanov, O. S., and Alekseevskii, N. E., *Fiz. Metal. Metalloved.* **31**, 72 (1971); translation *Phys. Met. Metallography* **31**, (1) 71 (1971).
- [1749] Dekhtyar, I. Ya., Latysheva, V. I., Mikhalev, V. S., Pan, V. M., Sakharova, S. G., and Sudovtsov, A. I., *Fiz. Metal. Metalloved.* **33**, 656 (1972); translation *Phys. Met. Metallography* **33**, 202 (1972).
- [1750] Pan, V. M., Latysheva, V. I., and Sudovtsov, A. I., *Fiz. Metal. Metalloved.* **31**, 504 (1971); translation *Phys. Met. Metallography* **31**, 58 (1971).
- [1751] Golovashkin, A. I., Levchenko, I. S., and Motulevich, G. P., *Fiz. Metal. Metalloved.* **33**, 1213 (1972); translation *Phys. Met. Metallography* **33**, 84 (1972).
- [1752] Pan, V. M., Latysheva, V. I., and Sudovtsov, A. I., *Fiz. Metal. Metalloved.* **33**, 1311 (1972); translation *Phys. Met. Metallography* **33**, (6) 180 (1972).
- [1753] Alekseevskii, N. E., Nizhankovskiy, V. I., Shamray, V. F., Basan, C., and Troinar, Ye., *Fiz. Metal. Metalloved.* **34**, 972 (1972); translation *Phys. Met. Metallography* **34**, (5) 68 (1972).
- [1754] Shchetkin, I. S., and Kharchenko, T. N., *Zh. Eksp. Teor. Fiz.* **64**, 964 (1973); translation *Sov. Phys. JETP* **37**, 491 (1973).
- [1755] Ageev, N. V., Alekseevskii, N. E., and Shamray, V. G., *Izv. Akad. Nauk SSSR Metallurgy (Metally) No. 3*, 171 (1970); abridged translation, *Russian Metallurgy (Metally) No. 3*, 122 (1970).
- [1756] Fischer, O., Treyvaud, A., Bongi, G., Jones, H., and Flukiger, R., *J. Phys. F: Metal Phys.* **4**, 1187 (1974).
- [1757] Smith, T. F., Shelton, R. N., Lawson, A. C., and Chu, C. W., *J. Phys. F: Metal Phys.* **4**, 1423 (1974).
- [1758] Smith, T. F., Shelton, R. N., and Schwall, R. F., *J. Phys. F: Metal Phys.* **4**, 2009 (1974).
- [1759] Fischer, O., Jones, H., Bongi, G., Sergent, M., and Chevrel, R., *J. Phys. C: Solid State Phys.* **7**, 1450 (1974).
- [1760] Dawes, P. P., Grimes, N. W., and O'Connor, D. A., *J. Phys. C: Solid State Phys.* **7**, 1387 (1974).
- [1761] Tret'yakov, B. N., Kuritsin, V. B., and Kodess, B. N., *Fiz. Metal. Metalloved.* **34**, 1094 (1972); translation *Phys. Met. Metallography* **34**, (5) 185 (1972).
- [1762] Postnikov, V. V., and Zolotukhin, I. V., *Fiz. Metal. Metalloved.* **34**, 1096 (1972); translation *Phys. Met. and Metallography* **34**, (5) 188 (1972).
- [1763] Skoskiewicz, T., *Phys. Stat. Sol.* **B59**, 329 (1973).
- [1764] Claesson, T., Granqvist, C. G., and Ivarsson, J., *Phys. Stat. Sol.* **B60**, 157 (1973).
- [1765] Kopetskii, T. V., Myshlyayev, M. M., Novochatskai, N. I., Tulina, N. A., and Yukhanov, V. A., *Phys. Stat. Sol.* **A16**, 307 (1973).
- [1766] Nemoz, A., and Solecki, J. C., *Phys. Stat. Sol.* **A16**, 641 (1973).
- [1767] Kubiak, R., Zacharko, W., and Lukaszewica, K., *Phys. Stat. Sol.* **B61**, K33 (1974).
- [1768] Gregory, W. D., "The Science and Technology of Superconductivity" ed. by Gregory, W. D., Matthews, W. N., and Edelsack, E. A. (Plenum Press, N. Y., 1973), pp. 211-261.
- [1769] Alekseevskii, N. E., and Zakosarenko, V. M., *Dok. Akad. Nauk SSSR* **208**, 303 (1973); translation *Sov. Phys.-Doklady* **18**, 45 (1973).
- [1770] Schollhorn, R., Lerf, A., and Sernetz, F., *Z. Naturforsch.* **29B**, 810 (1974).
- [1771] Koch, C. C., and Kroeger, D. M., *J. Less-Common Met.* **40**, 29 (1975).
- [1772] Flukiger, R., Susz, Ch., Heiniger, F., and Muller, J., *J. Less-Common Met.* **40**, 103 (1975).
- [1773] Mrstik, B. J., and Ginsberg, D. M., *Phys. Rev.* **B7**, 4844 (1973).
- [1774] Bergmann, G., *Phys. Rev.* **B7**, 4850 (1973).
- [1775] Hopkins, J. R., and Finnemore, D. K., *Phys. Rev.* **B9**, 108 (1974); errata, *Phys. Rev.* **B10**, 1135 (1974).
- [1776] Koch, C. C., Scarbrough, J. O., and Kroeger, D. M., *Phys. Rev.* **B9**, 888 (1974).
- [1777] Lou, D. Y., and Bommel, H. E., *Phys. Rev.* **B9**, 3739 (1974).
- [1778] Gubser, D. U., and Cox, J. E., *Phys. Rev.* **B7**, 4118 (1973).
- [1779] Lindsay, J. D., White, R. W., Tinkle, M. C., Hayter, S. W., and Fowler, R. D., *Phys. Rev.* **B7**, 4290 (1973).
- [1780] Overcash, D. R., Skove, M. J., and Stillwell, E. P., *Phys. Rev.* **B3**, 3765 (1971).
- [1781] Rollins, R. W., and Clune, L. C., *Phys. Rev.* **B6**, 2609 (1972).
- [1782] Meservey, R., and Meyers, L., *Phys. Rev.* **B6**, 2632 (1972).
- [1783] Joseph, R. R., Gschneidner, K. A., and Koskimaki, D. C., *Phys. Rev.* **B6**, 3286 (1972).
- [1784] Tsuei, C. C., and Johnson, W. L., *Phys. Rev.* **B9**, 4742 (1974).
- [1785] Komnik, Yu. F., Belevtsev, B. I., and Yatsuk, L. A., *Thin Solid Films* **21**, 189 (1974).
- [1786] Meyer, O., Linker, G., and Kraeft, B., *Thin Solid Films* **19**, 217 (1973).
- [1787] Schrey, F., Mathis, R. D., Payne, R. T., and Murr, L. E., *Thin Solid Films* **5**, 29 (1970).
- [1788] Jones, K. A., and Rose, R. M., *Trans. Met. Soc. AIME* **245**, 67 (1969).
- [1789] Doi, T., Ishida, F., Kawabe, U., and Kitada, M., *Trans. Met. Soc. AIME* **242**, 1793 (1968).
- [1790] Pollack, J. T. A., and Gatos, H. C., *Trans. Met. Soc. AIME* **245**, 1953 (1969).
- [1791] Koch, C. C., and Love, G. R., *Trans. Met. Soc. AIME* **245**, 1957 (1969).
- [1792] Pollack, J. T. A., Sadagopan, V., and Gatos, H. C., *Trans. Met. Soc. AIME* **245**, 2350 (1969).
- [1793] Beske, G. A., Hilsch, P., and Wulff, J., *Trans. Met. Soc. AIME* **239**, 891 (1967).

- [1794] Chiou, C., and Seraphim, D. P., *Trans. Met. Soc. AIME* **227**, 1209 (1963).
- [1795] Willens, R. H., and Buehler, E., *Trans. Met. Soc. AIME* **236**, 171 (1966).
- [1796] Reuter, F. W., Ralls, K. M., and Wulff, J., *Trans. Met. Soc. AIME* **236**, 1143 (1966).
- [1797] Colling, D. A., Ralls, K. M., and Wulff, J., *Trans. Met. Soc. AIME* **236**, 1218 (1966).
- [1798] Bachner, F. J., and Gatos, H. C., *Trans. Met. Soc. AIME* **236**, 1261 (1966).
- [1799] Khan, H. R., and Raub, C. J., *Z. Metallkde.* **63**, 814 (1972).
- [1800] Nishimura, T., and Zwicker, U., *Z. Metallkde.* **59**, 69 (1968).
- [1801] Raub, C. J., Roschel, E., and Zwicker, U., *Z. Metallkde.* **57**, 288 (1966).
- [1802] Hoffman, B. M., Gamble, F. R., and McConnell, H. M., *J. Amer. Chem. Soc.* **89**, 27 (1967).
- [1803] Raub, C. J., and Zwicker, U., *Z. Metallkde.* **55**, 711 (1964).
- [1804] Ziegler, G., Blos, B., Diepers, H., and Wohlleben, K., *Z. Angew. Phys.* **31**, 184 (1971).
- [1805] Hillenbrand, B., *Z. Angew. Phys.* **27**, 12 (1969).
- [1806] Hehemann, R. F., and Ziegler, S. T., *Trans. Met. Soc. AIME* **236**, 1594 (1966).
- [1807] Chu, T. L., and Gavalier, J. R., *J. Electrochem. Soc.* **113**, 1289 (1966).
- [1808] Kodess, B. N., Surikov, V. I., Zagryazhskii, V. L., Shtol'ts, A. K., Gel'd, P. V., *Isz. Akad. Nauk SSSR, Neorgan. Mater.* **7**, 853 (1971); translation *Inorganic Materials* **7**, 746 (1971).
- [1809] Huntley, D. J., and Frindt, R. F., *Can. J. Phys.* **52**, 861 (1974).
- [1810] Muller, A., *Z. Naturforsch.* **28a** 472 (1973).
- [1811] Roth, S., Ibel, K., and Just, W., *J. Appl. Cryst.* **7**, 230 (1974).
- [1812] Alekseevskii, N. E., Ageev, N. V., and Shamrai, V. F., *Isz. Akad. Nauk SSSR, Neorgan. Mater.* **2** (12), 2156 (1966); translation *Inorganic Materials U.S.S.R.* **2**, 1865 (1966).
- [1813] Shulishova, O. I., and Shcherbak, I. A., *Isz. Akad. Nauk SSSR, Neorgan. Mater.* **2**, (12) 2145 (1966); translation *Inorganic Materials U.S.S.R.* **2**, 1855 (1966).
- [1814] Savitskii, E. M., Baron, V. V. and Efimov, Yu. V., *Isz. Akad. Nauk SSSR, Neorgan. Mater.* **2**, 1444 (1966); translation *Inorganic Materials U.S.S.R.* **2**, 1234 (1966).
- [1815] Shulishova, O. I., and Shcherback, I. A., *Isz. Akad. Nauk SSSR, Neorgan. Mater.* **3**, 1495 (1967); translation *Inorganic Materials U.S.S.R.* **3**, 1304 (1967).
- [1816] Gey, W., and Kohnlein, D., *Z. Phys.* **255**, 308 (1972).
- [1817] Eichler, A., and Gey, W., *Z. Phys.* **251**, 321 (1972).
- [1818] Gey, W., and Kohnlein, D., *Phys. Letters* **29A**, 450 (1969).
- [1819] Ruzicka, J., *Z. Phys.* **237**, 432 (1970).
- [1820] Wilhelm, M., and Hillenbrand, B., *Z. Naturforsch.* **26a**, 141 (1971).
- [1821] Muller, A., *Z. Naturforsch.* **26a**, 1035 (1971).
- [1822] Klose, W., and Muller, A., *Z. Phys.* **259**, 307 (1973).
- [1823] Muller, A., *Z. Naturforsch.* **25a**, 1659 (1970).
- [1824] Toth, L. E., Zackay, V. F., Wells, M., Olson, J., and Parker, E. R., *Acta Met.* **13**, 379 (1965).
- [1825] Kammerdiner, L., and Luo, H. L., *J. Appl. Phys.* **45**, 4590 (1974).
- [1826] Bevol, A. J., and Shanks, H. R., *J. Appl. Phys.* **45**, 4644 (1974).
- [1827] Leupold, H. A., Rothwarf, F., Winter, J. J., Breslin, J. T., Ross, R. L., and AuCoin, T. R., *J. Appl. Phys.* **45**, 5399 (1974).
- [1828] Keskar, K. S., Yamashita, T., Onodera, Y., Goto, Y., and Aso, T., *J. Appl. Phys.* **45**, 3102 (1974).
- [1829] Johnson, W. L., and Poon, S. J., *J. Appl. Phys.* **45**, 3683 (1974).
- [1830] Buhrman, R. A., and Halperin, W. P., *J. Low Temp. Phys.* **16**, 409 (1974).
- [1831] Morton, N., Booth, J. G., and Woodhead, C. F., *J. Less-Common Metals* **34**, 125 (1974).
- [1832] Muller, A., *Z. Naturforsch.* **24a**, 1134 (1969).
- [1833] Takayanagi, S., Takano, M., Kimura, Y., and Sugawara, T., *J. Low Temp. Phys.* **16**, 519 (1974).
- [1834] Chu, C. W., and Vieland, L. J., *J. Low Temp. Phys.* **17**, 25 (1974).
- [1835] Sanchez, D. H., *J. Low Temp. Phys.* **17**, 101 (1974).
- [1836] Ehrat, R., and Rinderer, L., *J. Low Temp. Phys.* **17**, 255 (1974).
- [1837] Kobayashi, N., Noto, K., Ikebe, M., and Muto, Y., *J. Low Temp. Phys.* **17**, 575 (1974).
- [1838] Suenaga, M., Luhman, T. S., and Sampson, W. B., *J. Appl. Phys.* **45**, 4049 (1974).
- [1839] Goodman, B. B., and Kuhn, G., *J. Phys. (Paris)* **29**, 240 (1968).
- [1840] Fisk, Z., Lawson, A. C., and Fitzgerald, R. W., *Mat. Res. Bull.* **9**, 633 (1974).
- [1841] Vandenberg, J. M., and Matthias, B. T., *Mat. Res. Bull.* **9**, 1085 (1974).
- [1842] Vandenberg, J. M., private communication. Quoted in ref. [1841].
- [1843] Khan, H. R., Raub, Ch. J., Gardner, W. E., Fertig, W. A., Johnston, D. C., and Maple, M. B., *Mat. Res. Bull.* **9**, 1129 (1974).
- [1844] Bahl, S. K., and Zehl, O., *Mat. Res. Bull.* **9**, 1313 (1974).
- [1845] Sernetz, F., Lerf, A., and Schollhorn, R., *Mat. Res. Bull.* **9**, 1597 (1974).
- [1846] Blane, J., Solecki, J. C., and Nemoz, A., *Rev. Phys. Appl.* **6**, 551 (1971).
- [1847] Woodard, D. W., and Cody, G. D., *RCA Review* **25**, 393 (1964).
- [1848] Hanak, J. J., Strater, K., and Cullen, G. W., *RCA Review* **25**, 342 (1964).
- [1849] Cooper, J. L., *RCA Review* **25**, 405 (1964).
- [1850] Hecht, R., *RCA Review* **25**, 453 (1964).
- [1851] Chu, C. W., and Hill, H. H., *Science* **159**, 1227 (1968).
- [1852] Junod, A., Bellon, P., Flukiger, R., Heimiger, F., and Muller, J., *Phys. kondens. Materie* **15**, 133 (1972).
- [1853] Molime, P., Jerome, D., and Grant, A. J., *Phil. Mag.* **30**, 1091 (1974).
- [1854] Easton, D. S., Koch, C. C., Kroeger, D. M., and Cable, J. W., *Phil. Mag.* **30**, 1117 (1974).
- [1855] Yasohama, K., and Ogasawara, T., *J. Phys. Soc. Japan* **36**, 1349 (1974).
- [1856] Aoi, T., Takeuchi, J., and Masuda, Y., *J. Phys. Soc. Japan* **36**, 1485 (1974).
- [1857] Miyauchi, H., Nakajima, T., and Kanda, E., *J. Phys. Soc. Japan* **36**, 1705 (1974).
- [1858] Togano, K., and Tachikawa, K., *J. Less-Common Metals* **33**, 275 (1973).
- [1859] Khan, H. R., Roschel, E., and Raub, Ch. J., *Z. Phys.* **262**, 279 (1973).
- [1860] Ziembra, G., *Z. Phys.* **262**, 359 (1973).
- [1861] Luhman, T. S., Taggart, R., Polonis, D. H., *Scripta Metallurgica* **5**, 81 (1971).
- [1862] Cotton, W. L., Taggart, R., and Polonis, D. H., *Scripta Metallurgica* **8**, 329 (1974).
- [1863] Andres, K., and Wernick, J. H., *Rev. Sci. Instrum.* **44**, 1186 (1973).
- [1864] Landau, J., and Rosenbaum, R., *Rev. Sci. Instrum.* **43**, 1540 (1972).
- [1865] Kopf, L., *Rev. Sci. Instrum.* **38**, 734 (1967).
- [1866] Englehardt, J. J., *J. Phys. Chem. Solids* **36**, 123 (1975) and private communication.
- [1867] Korn, D., Murer, W., and Zibold, G., *J. de Phys. (Paris) Colloque C4, Suppl. au n° 5, Tome 35, Mai 1974*, p. 261.
- [1868] Granqvist, C. G., and Claesson, T., *J. de Phys. (Paris) Colloque C4, Suppl. au n° 5, Tome 35, Mai 1974*, p. 301.
- [1869] Sambongi, T., *J. Low Temp. Phys.* **18**, 139 (1975).
- [1970] Novotny, V., and Meincke, P. P. M., *J. Low Temp. Phys.* **18**, 147 (1975).
- [1871] Murphy, D. W., DiSalvo, F. J., Hull, G. W. Jr., Waszczak, J. V., Mayer, S. F., Stewart, G. R., Early, S., Acrivos, J. V., and Geballe, T. H., *J. Chem. Phys.* **62**, 967 (1975).
- [1872] DiSalvo, F. J., unpublished work, quoted in ref. [1871].

- [1873] Baranov, I. A., Boikova, K. I., Guts, Z. A., Kurakina, L. A., Kogan, A. V., Fogel, A. A., Tsytkin, S. I., and Shmulevich, R. S., *Fiz. Tver. Tela* **10**, 404 (1968); translation *Sov. Phys.-Solid State* **10**, 318 (1968).
- [1874] Alekseevskii, N. E., Kornilov, I. I., Matveeva, N. M., and Maksimov, Yu. A., *Dok. Akad. Nauk SSSR* **173**, 553 (1967); translation *Sov. Phys.-Doklady* **12**, 275 (1967).
- [1875] Sirota, N. N., and Ovseichuk, E. A., *Dok. Akad. Nauk SSSR* **174**, 570 (1967); translation *Sov. Phys.-Doklady* **12**, 516 (1967).
- [1876] Alekseevskii, N. E., Ivanov, O. S., Reevskii, I. I. and Stepanov, N. V., *Dok. Akad. Nauk SSSR* **176**, 305 (1967); translation *Sov. Phys.-Doklady* **12**, 898 (1968).
- [1877] Lazarev, B. G., Semenenko, E. E., Sudovtsov, A. I., and Kuz'menko, V. M., *Dok. Akad. Nauk SSSR* **165**, 1275 (1965); translation *Sov. Phys.-Doklady* **10**, 1204 (1966).
- [1878] Lazarev, B. G., Lazareva, L. S., Makarov, V. I., and Ignat'eva, T. A., *Zh. Eksp. Teor. Fiz.* **48**, 1065 (1965); translation *Sov. Phys. JETP* **21**, 711 (1965).
- [1879] Lazarev, B. G., Lazareva, L. S., Makarov, V. M., and Tereshina, N. S., *Zh. Eksp. Teor. Fiz.* **50**, 546 (1966); translation *Sov. Phys. JETP* **23**, 363 (1966).
- [1880] Alekseevskii, N. E., and Mikhaeva, M. N., *Zh. Eksp. Teor. Fiz.* **52**, 40 (1967); translation *Sov. Phys. JETP* **25**, 25 (1967).
- [1881] Alekseevskii, N. E., Mikhaeva, M. N., and Tulina, N. A., *Zh. Eksp. Teor. Fiz.* **52**, 875 (1967); translation *Sov. Phys. JETP* **25**, 575 (1967).
- [1882] Wanlass, D. R., and Seinko, M. J., *J. Solid State Chem.* **12**, 362 (1975).
- [1883] Sweedler, A. R., Ph. D. thesis, Stanford Univ., 1969. Quoted in ref. 1882.
- [1884] Lasbley, A., Granger, R., and Rolland, S., *Rev. Phys. Appl.* **8**, 399 (1973) and *Solid State Commun.* **13**, 1045 (1973).
- [1885] Monceau, P., and Waysand, G., *Rev. Phys. Appl.* **8**, 409 (1973).
- [1886] Bethoux, O., and Schumacher, G., *Rev. Phys. Appl.* **8**, 439 (1973).
- [1887] Aoi, T., and Masuda, Y., *J. Phys. Soc. Japan* **37**, 673 (1974).
- [1888] Kornilov, I. I., Mints, R. S., Guseva, L. N., and Malkov, Yu. S., *Izv. Akad. Nauk SSSR Metallurg. 1965* (6), 132-6; translation *Russian Metallurgy* 93-96 (1965).
- [1889] Savitskii, E. M., Baron, V. V., and Efimov, Yu. V., *Izv. Akad. Nauk SSSR Metallurg. 1966* (3), 156-60; translation *Russian Metallurgy* 100-102 (1966).
- [1890] Kumagai, K., and Ohtsuka, T., *J. Phys. Soc. Japan* **37**, 384 (1974).
- [1891] Yamaya, K., *J. Phys. Soc. Japan* **37**, 36 (1974).
- [1892] Burgemeister, E. A., and Dokoupil, Z., *Physica* **62**, 357 (1972); *Physica* **77**, 27 (1974).
- [1893] Granqvist, C. G., and Claeson, T., *Phys. Condens. Matter* **18**, 79 (1974).
- [1894] Granqvist, C. G., and Claeson, T., *Phys. Condens. Matter* **18**, 99 (1974).
- [1895] Behroozi, F., Garfunkel, M. P., Rogan, F. H., and Wilkinson, G. A., *Phys. Rev.* **B10**, 2756 (1974).
- [1896] Fradin, F. Y., and Williamson, J. D., *Phys. Rev.* **B10**, 2803 (1974).
- [1897] Hoenig, H. E., *Solid State Commun.* **16**, 341 (1975).
- [1898] Dawes, P. P., and Grimes, N. W., *Solid State Commun.* **16**, 139 (1975).
- [1899] Granqvist, C. G., *Solid State Commun.* **16**, 581 (1975).
- [1900] Granqvist, C. G., and Claeson, T., *Z. Phys.* **269**, 23 (1974).
- [1901] Stritzker, B., *Z. Phys.* **268**, 261 (1974).
- [1902] Golovashkin, A. I., Levchenko, I. S., and Motulevich, G. P., *Fiz. Tverd. Tela* **16**, 2100 (1974); translation, *Sov. Phys. Solid State* **16**, 1368 (1975).
- [1903] Granqvist, C. G., and Claeson, T., *Z. Phys.* **B20**, 13 (1975).
- [1904] Hauser, J. J., *Phys. Rev.* **B11**, 738 (1975).
- [1905] Miller, R. J., and Satterthwaite, C. B., *Phys. Rev. Letters* **34**, 144 (1975).
- [1906] Alterovitz, S., and Mapother, D. E., *Phys. Rev.* **B11**, 139 (1975).
- [1907] Harris, E. P., and Mapother, D. E., quoted in ref. [1906].
- [1908] Johnson, W. L., Poon, S. J., and Duwez, P., *Phys. Rev.* **B11**, 150 (1975).
- [1909] Wolcott, N. M., and Falge, R. L., Jr., *Phys. Rev.* **171**, 591 (1968).
- [1910] Revelli, J. F., Jr., and Phillips, W. A., *J. Solid State Chem.* **9**, 176 (1974).
- [1911] Rabenau, A., Deneke, K., and Van Der Meij, M. M., *Angew. Chem. Internat. Edit.* **3**, 588 (1964).
- [1912] Mackliet, C. A., and Schindler, A. I., *Phys. Rev.* **146**, 463 (1966).
- [1913] Savitskii, E. M., Baron, V. V., Efimov, Yu. V. and Gladyshevskii, E. I., *Izv. Akad. Nauk SSSR Neorgan. Materialy* **1**, 354 (1965); translation, *Inorganic Materials U.S.S.R.* **1**, 327 (1965).
- [1914] Savitskii, E. M., Baron, V. V., Efimov, Yu. V., and Gladyshevskii, E. I., *Izv. Akad. Nauk SSSR Neorgan. Materialy* **1**, 208 (1965); translation, *Inorganic Materials U.S.S.R.* **1**, 191 (1965).
- [1915] Moodenbaugh, A. R., Johnston, D. C., and Viswanathan, R., *Mat. Res. Bull.* **9**, 1671 (1974).
- [1916] Savitskii, E. M., Baron, V. V., and Efimov, Yu. V., *Izv. Akad. Nauk SSSR Neorgan. Materialy* **4**, 316 (1968); translation, *Inorganic Materials U.S.S.R.* **4**, 263 (1968).
- [1917] Warren, W. H., Jr., and Bader, W. G., *Rev. Sci. Instruments* **40**, 180 (1969), for additional information on soldering see *Soldering Manual*, American Welding Society, New York, 1959.
- [1918] Subba Rao, G. V., Shafer, M. W., Kawarazaki, S., and Toxen, A. M., *J. Solid State Chem.* **9**, 323 (1974).
- [1919] Laukhin, V. N., Matyushchenkov, V. K., and Rabin'kin, A. G., *Fiz. Tverd. Tela* **16**, 276 (1974); translation, *Sov. Phys. Solid State* **16**, 183 (1974).
- [1920] Somoano, R. B., Hadek, V., and Rembaum, A., *J. Chem. Phys.* **58**, 697 (1973).
- [1921] Artemenko, I. A., and Voitovich, I. D., *Ukr. Fiz. Zh.* **10**, 239 (1965).
- [1922] Matyushenko, N. M., Matsakova, A. A., and Pusachev, N. S., *Ukr. Fiz. Zh.* **18**, 672 (1973).
- [1923] Dummer, G., and Mapother, D. E., in *Electronic Density of States*, Nat. Bur. Stand. (U.S.) Spec. Pub. 323 (1971), pp. 681-684.
- [1924] Umlauf, E., Holzer, P., Keller, J., Dietrich, M., Gey, W., and Meier, R., *Z. Physik* **271**, 305 (1974).
- [1925] Comberg, A., Ewert, S., and Bergmann, G., *Z. Physik* **271**, 317 (1974).
- [1926] Olsen, C. E., Erickson, D. J., and Taylor, R. D., *Bull. Am. Phys. Soc.* **19**, 674 (1974).
- [1927] Johnson, A. C., Jones, M. E., Hermann, A. M., and Deck, R. J., *Solid State Commun.* **16**, 803 (1975).
- [1928] Somoano, R. B., Hadek, V., Rembaum, A., Samson, S., and Woollam, J. A., *J. Chem. Phys.* **62**, 1068 (1975).
- [1929] Yamamoto, M., Ohta, N., and Ohtsuka, T., *J. Low Temp. Phys.* **15**, 231 (1974).
- [1930] Chu, C. W., Bucher, E., Cooper, A. S., and Maita, J. P., *Phys. Rev.* **B4**, 320 (1971).
- [1931] Nakajima, T., Isino, M., Miyauchi, H., and Kanda, E., *J. Phys. Soc. Japan* **34**, 282 (1973).
- [1932] Comberg, A., and Ewert, S., *Z. Physik* **268**, 241 (1974).
- [1933] Huang, S., and Chu, C. W., *Phys. Rev.* **B10**, 4030 (1974).
- [1934] Zacharko, W., and Mazur, J., *Acta Phys. Polonica* **A46**, 109 (1974).
- [1935] Sekula, S. T., and Kernohan, R. H., *Low Temp. Phys.-LT13*, ed. Timmerhaus, K. D., O'Sullivan, W. J., and Hammel, E. F., Vol. 3: *Superconductivity* (Plenum Press, N.Y.-London, 1974), p. 217.
- [1936] Fowler, R. D., Asprey, L. B., Lindsay, J. D. G., and White, R. W., ref. [1935], p. 377.

- [1937] Schooley, J. F., ref. [1935], p. 382.
- [1938] Van Maaren, M. H., and Havinga, E. E., ref. [1935], p. 392.
- [1939] Roy, P. K., Levine, J. L., and Toxen, A. M., ref. [1935], p. 395.
- [1940] Oya, G., Onodera, Y., and Muto, Y., ref. [1935], p. 399.
- [1941] Ho, J. C., and Collings, E. W., ref. [1935], p. 403.
- [1942] Kienzle, W. E., Bevolo, A. J., Danielson, G. C., Li, P. W., Shanks, H. R., and Sidles, P. H., ref. [1935], p. 408.
- [1943] King, C. N., Benda, J. A., Greene, R. L., and Geballe, T. H., ref. [1935], p. 411.
- [1944] Muller, J., Flukiger, R., Junod, A., Heiniger, F., and Susz, C., ref. [1935], p. 446.
- [1945] Cadieu, F. J., and Weaver, J. S., ref. [1935], p. 457.
- [1946] Soulen, R. J., Jr., and Gubser, D. U., ref. [1935], p. 498.
- [1947] Bhardwaj, B. D., and Rorschach, H. E., ref. [1935], p. 517.
- [1948] Yoshihiro, K., and Glover, R. E., ref. [1935], p. 547.
- [1949] Bergmann, G., ref. [1935], p. 552.
- [1950] Gavalier, J. R., Janocko, M. A., and Jones, C. K., ref. [1935], p. 588.
- [1951] Ukei, K., and Kanda, E., Tohoku Univ. Res. Inst. Sci. Repts. Ser. **A18**, Suppl. 1967, p. 413.
- [1952] Deis, D. W., and Hulm, J. K., ref. [1935], p. 461.
- [1953] Hammond, R. H., and Hazra, S., ref. [1935], p. 465.
- [1954] Johnson, G. R., and Douglass, D. H., ref. [1935], p. 469.
- [1955] Deaton, B. C., and Gordon, D. E., ref. [1935], p. 475.
- [1956] Spitzer, H. J., ref. [1935], p. 485.
- [1957] Probst, C., and Wittig, J., ref. [1935], p. 495.
- [1958] Deardorff, D. K., Siemens, R. E., Romans, P. A., and McCune, R. A., *J. Less-Common Metals* **18**, 11 (1969).
- [1959] Luo, H. L., unpublished. Personal communication, 1974.
- [1960] Hamblen, D. G., doctoral dissertation, Univ. of Illinois, October 1969.
- [1961] Giorgi, A. L., Szklarz, E. G., and Wallace, T. C., *Proc. British Ceramic Soc.* No. 10, March 1968, pp. 183-193.
- [1962] Zhang, Yu-Heng., *Acta Physica Sinica* **22**, 341 (1966).
- [1963] Chaudhari, R. D., *Phys. Rev.* **151**, 96 (1966).
- [1964] Bucher, E., Maita, J. P., Hull, G. W., Fulton, R. C., and Cooper, A. S., *Phys. Rev.* **B11**, 440 (1975).
- [1965] Bucher, E., Andres, K., DiSalvo, F. J., Maita, J. P., Gossard, A. C., Cooper, A. S., and Hull, G. W. Jr., *Phys. Rev.* **B11**, 500 (1975).
- [1966] Cave, J. A., and Davies, T. J., *Metal Science* **8**, 28 (1974).
- [1967] Bevolo, A. J., Shanks, H. R., Sidles, P. H., and Danielson, G. C., *Phys. Rev.* **B9**, 3220 (1974).
- [1968] Neshpor, V. S., Novikov, V. I., and Sokolov, V. V., *Izv. Akad. Nauk SSSR, Neorgan. Mater.* **6**, (3), 425 (1970); translation, *Inorganic Materials* **6**, 373 (1970).
- [1969] Narasimhan, S. L., Taggart, R., and Polonis, D. H., *J. Nuclear Materials* **38**, 83 (1971).
- [1970] Webb, G. W., *Superconductivity in d - and f -Band Metals*, ed. Douglas, D. H., (Amer. Inst. Phys., New York, 1972) p. 139.
- [1971] Giorgi, A. L., Szklarz, E. G., and Krupka, M. C., ref. 1970, p. 147.
- [1972] Onishi, T., and Miura, K., *Cryogenic Engineering (Japan)* **6**, (No. 6), 244 (1971).
- [1973] Cheng, G.-K., Kiu, T.-H., and Kuan, W.-Y., *Acta Physica Sinica* **21**, (4) 817 (1965).
- [1974] Somoano, R. B., and Rembaum, A., *JPL Quarterly Tech. Rev.* **1**, 33 (1971). Also see ref. [1970], p. 243.
- [1975] Greene, R. L., Grant, P. M., and Street, G. B., *Phys. Rev. Letters* **34**, 89 (1975).
- [1976] Hallais, J., *Ann. Chim.* **6**, 309 (1971).
- [1977] Kitchingman, W. J., and Norman, P. L., *J. Appl. Cryst.* **6**, 240 (1973).
- [1978] Ullmaier, H., and Cruceanu, E., *Rev. Roum. Phys.* **17**, (5), 547 (1972).
- [1979] Sirota, N. N., and Fedotov, A. K., *Dok. Akad. Nauk. Beloruss* **17**, (6) 497 (1973).
- [1980] Pan, Y. M., Latysheva, V. I., and Sudovtsov, A. I., *Metallfizika*, **50**, 83 (1974).
- [1981] Sirota, N. N., and Malishevskii, V. F., *Akad. Nauk BSSR Ser. Fizika Matemat. Naukvestsi*, No. 4, 131 (1970).
- [1982] Hagner, R., *Z. Phys.* **177**, 10 (1964).
- [1983] Savitskii, E. M., Baron, V. V., Efimov, Yu. V., and Gladyshevskii, E. I., *Akad. Nauk. URSS* (11), 1474 (1965).
- [1984] Akhmedov, S. Sh., Karasik, V. R., and Shmulevich, R. S., *Dokl. Akad. Nauk. Tadzkiksoi CCP* **10**, (4) 22 (1967); and **10**, (8) 18 (1967).
- [1985] Buckel, W., and Stritzker, B., In *Inter. Conf. on Appls. of Ion Beams to Metals*, Albuquerque, Oct. 1973, reprints pp. 3-13.
- [1986] Greene, R. L., Street, G. B., and Suter, L. J., *Phys. Rev. Letters* **34**, 577 (1975).
- [1987] Arrhenius, O., Geballe, T. H., and Matthias, B. T., *Bull. Amer. Phys. Soc. II* **8**, 294 (1963).
- [1988] Hulm, J. K., Jones, C. K., Miller, R. C., and Tien, T. Y., *Proc. 10th Inter. Conf. Low Temp. Physics* **2A**, Moscow (1966) p. 86.
- [1989] Savitskiy, E. M., Polyakova, V. P., and Roshan, N. R., *Izv. Akad. Nauk SSSR Metal.* (No. 5), 129 (1972); *Translation Metally* (No. 5), 97 (1972).
- [1990] Tylkina, M. A., Savitskiy, E. M., and Alyushin, V. E., *Izv. Akad. Nauk SSSR Metal.* (No. 4), 225 (1973); *translation Metally* (No. 4), 159 (1973).
- [1991] Rapp, O., and Pokorny, M., *Low Temp. Phys.* **LT13**, Ed. Timmerhaus, K. D., O'Sullivan, W. J., and Hammel, E. F., (Plenum, New York-London, 1974), Vol. 4, p. 253.
- [1992] Benda, J. A., King, C. N., Pisharody, K. R., and Phillips, W. A., ref. [1991], p. 423.
- [1993] Bucher, E., Ehrenfreund, E., Gossard, A. C., Andres, K., Wernick, J. H., Maita, J. P., Cooper, A. S., and Longinotti, L. D., ref. 1991, p. 648.
- [1994] Wittig, J., Probst, C., and Wiedemann, W., ref. 1935, p. 490.
- [1995] Fisk, Z., unpublished results, Univ. Cal.-San Diego.
- [1996] Probst, C., Dissertation, Jülich.

8. Reviews and Books Centering upon Superconductive Materials

1913

Onnes, H., Kamerlingh, Commun. Kamerlingh Onnes Lab. **13**, Supplement 34b (1913-14).

1920

Crommelin, C. A., Phys. Z. **21**, 274, 300, 331 (1920).

1930

DeHaas, W. J., "Über Supraleitende Metalle" Metallwirtschaft Wissenschaft und Technik **9** (7), 149-154 (1930).

Bates, L. F., Science Progress **24**, 565-572 (1930).

Meissner, W., "Research on Superconductors" Metallwirtschaft **15**, 289 (1930).

Schulze, A., Z. Ver. duet. Ing. **74**, 149-152 (1930).

Meissner, W., Metallwirtschaft **10**, 289, 310 (1931).

Clusius, K., Z. Elektrochem. **38**, 312-326 (1932).

DeHaas, W. J., and Voogd, J., Commun. Kamerlingh Onnes Lab. **20**, Supplement 73a (1932).

Meissner, W., "Supraleitfähigkeit" Ergebnisse der Exakten Naturwiss. **11**, 219-263 (1932).

McLennan, J. C., Nature **130**, 879-886 (1932).

McLennan, J. C., Pharm. J. **128**, 470 (1932).

Meissner, W., Erg. Der Exakt. Naturw. **11**, 219 (1932).

DeBoer, J., "Superconductivity" Science Progress **27**, 613-633 (1933).

Kikoin, I., and Lazarev, B., J. Tech. Phys. (U.S.S.R.) **3**, 237-254 (1933).

Burton, E. F. (ed.), "The Phenomenon of Superconductivity," Univ. of Toronto Press, Toronto (1934).

McLennan, J. C., Reports on Prog. in Physics **1**, 206 (1934).

Meissner, W., Phys. Z. **35**, 931 (1934).

Tammann, G., Z. Metallkunde **26**, 61 (1934).

1935

McLennan, J. C., Roy. Soc. Proc. **152A**, 1-46 (1935).

Meissner, W., "Handbuch der Experimental Physik XI," Part 2, 204-262 (1935).

Smith, H. G., and Wilhelm, J. O., Rev. Mod. Phys. **7**, 237 (1935).

Darrow, K. K., Rev. Sci. Instr. **7**, 124 (1936).

Ruhemann, M., and Ruhemann, B., "Low Temperature Physics," Cambridge Univ. Press (1937).

Silsbee, F. B., J. Wash. Acad. Sci. **27**, 225-44 (1937).

Steiner, K., and Grassmann, P., "Supraleitung," Vieweg und Sohn, Brunswick (1937).

Shoenberg, D., "Superconductivity," Cambridge Univ. Press (1938).

Shoenberg, D., Uspekhi Fiz. Nauk. **19**, 448-491; **20**, 1-28 (1938).

Jackson, L. C., Reports on Prog. in Physics **5**, 335-344 (1939).

1940

Burton, E. F., Grayson Smith, H., and Wilhelm, J. O., "Phenomena at the Temperature of Liquid Helium," Reinhold Publishing Corp., New York, pp. 87-123 (1940).

Casimir, H. B. G., Nederland, Tijdschr. Natuurkunde **8**, 113-123 (1941).

Laue, M. Von, Ber. **75B**, 1427-1432 (1942).

Laue, M. Von, Physik. Z. **43**, 274-284 (1942).

1945

Itterbeek, A. van, Soc. Roy. belge ing. ind., Mem. Ser. B **1**, 47-51 (1945).

Mendelssohn, K., Reports on Prog. in Physics **10**, 358-377 (1944-1945).

Ginsburg, V. L., "Superconductivity," Academy of Science U.S.S.R., Moscow, Leningrad (1946).

Hewlett, C. W., G. E. Rev. **49**, 19-25 (1946).

Justi, E., Naturwiss. **33**, 292-297, 329-333 (1946).

Andronikashvili, E.L., and Tumanov, K. A., Uspekhi Fiz. Nauk. **33**, 469-532 (1947).

Justi, E., "Leitfähigkeit und Leitungsmechanismus fester Stoffe," Göttingen, Vandenhoeck and Ruprecht, pp. 187-270 (1948).

Laue, M. Von, Ann. Physik. **3**, 40-42 (1948).

Meissner, W., and Schubert, G. V., Fiat Rev. German Science (1939-46); Physics of Solids Pt. II, 143-162 (1948).

Gorter, C. J., Physica **15**, 55-64 (1949).

Mendelssohn, K., Reports on Prog. in Physics **12**, 270-290 (1948-1949).

Vick, F. A., Science Progress **37**, 268-274 (1949).

1950

Wexler, A., Research, Lond. **3**, 534 (1950).

Laue, M. Von, "Theory of Superconductivity," Academic Press, New York, 140 pp. (1952).

Gorter, C. J., Physica **19**, 745-754 (1953).

Shoenberg, D., Nuovo Cimento **10**, Ser. IX, 459-489 (1953).

Eisenstein, J., Rev. Mod. Phys. **26**, 277 (1954).

1955

Buckel, W., Naturwiss. **42**, 451 (1955).

Serin, B., Handbuch Der Physik, Band XV Kaltephysik II, Springer-Verlag, Berlin, pp. 210-273 (1956).

Wexler, A., Metal. Progr. **69**, 89 (1956).

Zavaritskii, N. V., "Superconductivity," Priroda **45**, 37-44 (1956).

Matthias, B. T., "Superconductivity," Scientific Amer. **197**, 92, 103 (1957).

Abrikosov, A. A., Vestnik Akademii Nauk SSSR No. 4, 30-36 (1958).

Boorse, H. A., "Some Experimental Aspects of Superconductivity," Amer. J. Physics **27**, 47 (1959).

Buckel, W., Metall. **13**, 814 (1959).

1960

Cooper, L. N., "Theory of Superconductivity," Amer. J. Physics **28**, 91 (1960).

Shoenberg, D., "Superconductivity," (2d ed., 1960 printing), Cambridge Univ. Press (1960); (1st ed., 1938; 2d ed. 1952).

Bardeen, J., and Schrieffer, J. R., Prog. in Low Temp. Phys. Vol. III, pp. 170-287 (1961).

Kropschot, R. H., and Arp, V., "Superconducting Magnets," Cryogenics **2**, 1 (1961).

Bardeen, J., "Critical Fields and Currents in Superconductors," Rev. Modern Phys. **34**, 667 (1962).

Jones, W. H., Milford, F. J., and Fawcett, S. L., J. Metals **14**, 836 (1962). Also Battelle Technical Review (Sept. 1962).

Lynton, E. A., "Superconductivity," Methuen & Co., London; John Wiley & Sons, New York (1962).

Tanenbaum, M., and Wright, W. V. (ed.), "Superconductors," John Wiley & Sons, New York (1962).

Zwicker, U., "Superconductivity of Titanium and Its Alloys," Z. Metallkunde **54**, 477-483 (1963).

Matthias, B. T., Geballe, T. H., and Compton, V. B., "Superconductivity (Compounds)," Rev. Mod. Phys. **35**, 1 (1963).

Bardeen, J., "Superconductivity," in *Advances in Materials Research in the NATO Nations*, MacMillan, New York, pp. 281-290 (1963).

Bowen, D. H., "Effects of Pressure," in *High Pressure Physics and*

- Chemistry, Vol. 1*, R. S. Bradley (ed.), Academic Press, London, New York, pp. 355-373 (1963).
- Savitskii, E. M., and Baron, V. V., "Problems and Work on Superconductive Materials." *Izv. Akad. Nauk, Metall. i Gorn. Delv* No. 5, 3-12 (1963).
- Geballe, T. H., and Matthias, B. T., "Superconductivity," in *Annual Review of Physical Chemistry, Vol. 14*, pp. 141-160 (1963).
- Anderson, D. E., "Superconductivity," in *Magnetic Materials Digest 1964*, M. W. Lads, Philadelphia, pp. 196-217 (1964).
- Lynton, E. A., "Superconductivity," Methuen & Co., London: John Wiley & Sons, New York (1964). Three editions have been issued.
- Douglas, D. H., Jr., and Falicov, L. M., "The Superconducting Energy Gap," *Prog. in Low-Temperature Physics*, **4**, 97-193 (1964).
- Ginsburg, D. M., "Resource Letter Scy-1 on Superconductivity," (Outlines areas of Research with selected papers), *Am. J. Phys.* **32**, 85 (1964).
- Raub, C., "Supraleitfähigkeit der Edelmetalle und ihrer Legierungen," *Z. für Metallkunde* **55**, 195-199 (1964).
- "Proc. Inter. Conf. on Science of Superconductivity, Hamilton, N.Y., Aug. 1963," *Rev. Mod. Phys.* **36** (1964).
- Yasukochi, K., and Ogasawara, T., *Metal Physics (Tokyo)* **10**, 137, 197 (1964).
- Livingston, J. D., and Schadler, H. W., "The Effect of Metallurgical Variables on Superconducting Properties," *Progr. Materials Sci. (GB)*, Vol. 12, No. 3, 185-274 (1964).
- Klose, von W., "Harte Supraleiter," *Die Naturwissenschaften* **51**, 180-186 (1964).
- 1965
- Kunzler, J. E., "High-Field Superconductivity," *Materials Research and Standards* **5**, 161-171 (1965).
- Rose-Innes, A. C., "The New Superconductors," *Contemporary Physics* **7**, 135-151 (1965-1966).
- Abrikosov, A. A., "Present State of Superconductivity Problems," *Usp. Fiz. Nauk.* **87**: 125-47 (1965)
- Klein, R., and Schneider, D., "Supraleitung" in *Leitungsmechanismus und Energieumwandlung in Festkörpern*, E. Justi (Editor), Vandenhoeck and Ruprecht, Göttingen, pp. 236-335 (1965).
- Yefimov, Yu. V., Baron, V. V., Savitskii, Ye. M., and Gladyshevskiy, Ye. I., *Metalloved. i metallofizika sverkhprovodnikov (Metallography and Metal Physics of Superconductors)* Moscow, Izd. Nauka, 91 (1965).
- 1966
- deGennes, P. G., "Superconductivity of Metals and Alloys" (Theory), *Frontiers in Physics*, Benjamin, New York (1966).
- Ralls, K. M., and Wulff, J., "The Electronic Structure of Transition Metal-Interstitial Atom Alloy Superconductors," *J. Less Common Metals* **11**, 127-134 (1966).
- Block, F., "Some Remarks on the Theory of Superconductivity," *Physics Today* **19**, 27 (May 1966).
- Savitskii, E. M., and Baron, V. V., editors "Physics and Metallurgy of Superconductors," Proc. 2nd and 3rd Conf on Metallurgy, Physical Chemistry and Metal Physics of Superconductors, Moscow, May 1965 and May 1966. Translation: (Consultants Bureau, New York, London, 1970).
- Goodman, B. B., "Type II Superconductors," *Repts. Progress in Physics* **29** (Part 2), 445-487 (1966).
- Heaton, J. W., "High Field, High Current Superconductors," *Sci. Progr. (Oxford)* **54**, 27-40 (1966).
- Dew-Hughes, D., "Hard Superconductors" *Materials Sci. and Engineering* **1**, 2-29 (1966).
- Catterall, J. A., "High-Field Superconductivity and Its Application," *Metallurgical Reviews* **11**, 25-46 (1966).
- 1967
- Roberts, B. W., "Superconductive Properties" in *Intermetallic Compounds*, Edited by J. H. Westbrook, John Wiley and Sons, New York, pp. 581-613 (1967). Also *Intermetallisches Soedineniya*, Edited by I. I. Kornilov (Izdatelstvo "Metallurgiya," Moskva, 1970), pp. 402-439.
- Doi, T., Gato, S., and Mitsuya, M. "Superconductive beta-tungsten type metallic compounds," *Nippon Kinzoku Gakkai Kaiho (Special Issue Metal Compds.)* **6** (No. 2), 123-130 (1967).
- Chester, P. F., "Superconducting Magnets," *Repts. Progr. Phys.* **30**, Part II, p. 561 (1967).
- 1968
- Volger, J., "Superconductivity," *Philips Technical Review* **29**, 1-16 (1968).
- Kuper, C. G., *An Introduction to the Theory of Superconductivity*, Clarendon Press, Oxford (1968).
- Berlincourt, T. G., "Superconducting Materials" in *Superconductivity in Science and Technology*, ed. M. H. Cohen (University Chicago Press, Chicago-London, 1968), pp. 31-62.
- Alekseevskii, N. E., "New Superconductors," *Usp. Fiz. Nauk* **95**, 253-266 (1968), translation Soviet Physics Uspekhi **11**, 403 (1968).
- Ginzburg, V. L., "The Problem of High Temperature Superconductivity" *Contemp. Phys.* **9**, 355-374 (1968).
- Ginzburg, V. L., "The Problem of High Temperature Superconductivity," *Usp. Fiz. Nauk* **95**, 91-110 (1968).
- Muller, J., "Supraleitende Materialien" in *Vorträge Über Supraleitung*, (Birkhauser, Basel and Stuttgart, 1968), pp. 95-116.
- 1969
- Ullmaier, H., "Harte Supraleiter," *Z. Angew. Phys.* **26**, 261-276 (1969).
- Brandt, N. B., and Ginzburg, N. I., "Superconductivity at High Pressures," *Usp. Fiz. Nauk.* **98**, 95-124 (1969); Translation Soviet Physics Uspekhi **12**, 344 (1969).
- Brandt, N., and Ginzburg, N. I., "High Pressure Superconductivity," *Contemporary Physics* **10**, 355-386 (1969).
- Fishlock, D., Editor. "A Guide to Superconductivity," (American Elsevier: New York 1969).
- Parks, R. D., Editor "Superconductivity," Vols. I and II (Marcel Dekker: New York 1969).
- Builova, N. M., and Sandomirskii, V. B., "Superconductivity in Degenerate Semiconductors," *Usp. Fiz. Nauk.* **97**, 119 (1969); translation Soviet Physics Uspekhi **12**, 64 (1969)
- Savitskii, E. M., Baron, V. V., Efimov, Yu. V., Bychkova, M. I. and Myzenkova, L. F. "Metallovedenie Sverkhprovodyashchikh Materialov" (Nauka Press, Moscow, 1969).
- 1970
- Matthias, B. T., "Superconductivity and the Periodic System," *Amer. Scientist* **58**, 80 (1970).
- Glover, R. E., III, "Superconductivity Above the Transition Temperature," *Prog. in Low Temp. Physics* **6**, 291-332 (1970).
- Hulm, J. K., Ashkin, M., Deis, D. W., and Jones, C. K., "Superconductivity in Semiconductors and Semi-metals," *Prog. in Low Temp. Physics*, Vol. VI, Chap. 5 pp. 205-242 (1970).
- Ginsburg, D. M., "Resource Letter Scy-2 on Superconductivity," (Outlines areas of research with selected papers) *Am. J. Phys.* **38**, 949 (1970).
- Williams, J. E. C., "Superconductivity and Its Applications," (Pion Limited, London, 1970).
- Boughton, R. L., Olsen, J. L., and Palmy, C., "Pressure Effects in Superconductors," *Prog. in Low Temp. Physics* **6**, 163-203 (1970).

- Little, W. A. (ed.), "Proceedings of the International Conference on Organic Superconductors," (Wiley, Interscience; New York, 1970).
- Seeger, A., "Superconductivity and Physical Metallurgy," *Metallurgical Trans.* **1**, 2987-96 (1970).
- 1971
- Geballe, T. H., "New Superconductors," (Layered Compounds) *Scientific American* **225**, 22-33 (1971).
- Weis, O., "The Physical Properties of Superconductive Metals," *Chemiker-Zeitung* **95**, 168 (1971).
- Isao, A., Noguchi, T., Uchida, Y., and Kono, A., "Formation of Superconducting Nb₃Al and Nb₃(Al-Co)" *Cryogenic Eng. (Japan)* **6**, 190-207 (errata p. 272) (1971).
- Brandt, N. B., and Ginzburg, N. I., "Superconductivity at High Pressure," *Scientific American*, **224**, 83-95 (April 1971).
- Buckel, W., "Supraleitung," *Naturwiss* **58**, 177-183 (1971).
- Echarri, A., and Spadoni, M., "Superconducting Nb₃Sn: A Review," *Cryogenics* **11**, 274-84 (1971).
- Toth, L. E., "Superconducting Properties," in *Transition Metal Carbides and Nitrides* (Academic, New York) pp. 215-246 (1971).
- Hallais, J., "Etude de La Variation des Temperatures de Transition Supraconductrice Dans Les Solutions Solides de Structure Du Type (β -W)" *Ann. Chim.* **6**, 309-320 (1971).
- Matthias, R. T., "The Search for High-Temperature Superconductors," *Phys. Today* **24**, (August 23, 1971).
- Dew-Hughes, D., "The Metallurgical Enhancement of Type II Superconductors," *Rep. Prog. Phys.* **34**, 821-873 (1971).
- 1972
- Livingston, J. D., "Superconductivity and Superconducting Materials," (A Review) *Canadian Metallurgical Quarterly* **11**, 285-293 (1972).
- Smith, T. F., "Determination of Pressure Dependence of T_c for d- and f-Band Superconductors," in *Superconductivity in d- and f-Band Metals*, Ed. D. H. Douglas (Amer. Inst. of Phys., New York) pp. 293-319 (1972).
- Savitskii, E. M., and Efimov, J. V., "Supraleitende metallische Verbindungen und ihre Legierungen," *Monatshefte fur Chemie* **103**, 270-287 (1972).
- "Superconductive metals and alloys," *Sverkhprovodiashchie splavy i soedineniia. Izdatel'stvo (Nauka), Moskva* 1972, p. 205.
- Hulm, J. K., and Blaughner, R. D., "Transition-Metal Superconductors-Experimental Survey," in *Superconductivity in d- and f-Band Metals*, Ed. Douglas, D. H. (Amer. Inst. Phys., New York) pp. 1-16 (1972).
- Suzuki, T., "Study on Superconductive Materials," *Chitanium Kirukanium* **20**, (5) 240-8 (1972).
- Douglas, D. H., ed., "Superconductivity in d- and f-Band Metals," *AIP Conf. Proc. Number 4*. (Amer. Inst. Physics, New York, 1972).
- 1973
- Prakash, O. M., "Superconductors," *Elec. India* **13**, 5-18 (1973).
- Matthias, B. T., "La Supraconductivite a haute temperature," *La Recherche* **33**, 319-326 (1973).
- Savitskii, E. M., Baron, V. V., Efimov, Yu. V., Bychkova, M. I. and Myzenkova, L. F. "Superconducting Materials" (a translation and up-dating of the 1969 volume) Plenum, New York-London (1973).
- Suzuki, T., and Furuto, Y., "Problems of Development of Superconducting Materials and Intermetallic Compounds (Applications)" *Chem. Economy and Eng. Rev.* **5**, 29-37 (1973).
- Geilikman, B. T., "Problems of High-Temperature Superconductivity in Three-Dimensional Systems," *Usp. Fiz. Nauk* **109**, 65-90 (1973); translation *Sov. Phys. Usp.* **16**, 17-30 (1973).
- Cody, G. D., and Webb, G. W., "Superconductivity: Phenomena, Theory, Materials" *Critical Reviews in Solid State Sciences* **4**, 27-83 (1973). (CRC Press, Cleveland.)
- Sinha, A. K., *Progress in Materials Science*, Vol. **15**, 79-185 (1973) (Pergamon Press, New York).
- Hein, R. A., *Science and Technology of Superconductivity*, Editors, Gregory, W. D., Matthews, W. N., and Edelsack, E. A., Plenum Press, N.Y., (1973).
- 1974
- Fietz, W. A., and Rosner, C. H., "Advances in Superconductive Magnets and Materials," *IEEE Trans. on Magnetics* **MAG-10**, 239-259 (1974).
- Havinga, E. E., and Van Maaren, M. H., "Brillouin Zone Effects on the Critical Temperature of Superconductors and Some Related Normal Metal Properties," *Physics Reports* **10C**, (No. 3), 107-150 (1974).
- Paufler, P., "Einfluss der Realstruktur auf einige Eigenschaften von Supraleitern," *Kristall und Technik* **9**, 533-550 (1974).
- Masuda, Y., "The Effect of Ferromagnetic Impurities in Superconductors," *Bussei* **15**, (8), 37-49 (1974).
- Claeson, T., and Lundquist, S., "The Microscopic Theory of Superconductivity-Verifications and Extensions," *Physica Scripta* **10**, 5-34 (1974).
- Riblet, G., "Are There Other Reentrant Superconductors Besides (La_{1-x}Ce_x)Al₂?" *Appl. Phys.* **4**, 17-23 (1974).
- Leger, J. M., "Search for Superconductors Above 20°K." *J. Low Temp. Phys.* **14**, 297-316 (1974).
- Granqvist, C. G., and Claeson, T., "Superconductivity in Ultrathin Films," *Phys. Cond. Matter* **18**, 79-97 (1974); **18**, 99-120 (1974).
- Wernick, J. H., "Structure and Composition in Relation to Properties (Superconducting Behavior)" in *Treatise on Solid State Chemistry*, ed. N. B. Hannay, (Plenum Press, New York-London 1974) pp. 219-240.
- Hulm, J. K., and Blaughner, R. D., "A Survey of Superconducting Materials," in *Low Temperature Physics-LT13*, ed. Timmerhaus, K. D., O'Sullivan, W. J., and Hammel, E. F. (Plenum Press, New York-London, 1974) pp. 3-13.
- DiSalvo, F. J., "Layered Compounds, Intercalation, and Magnetic Susceptibility Measurements," in *Low Temperature Physics-LT13*, ed. Timmerhaus, K. D., O'Sullivan, W. J. and Hammel, E. F. (Plenum Press, New York-London, 1974) pp. 417-427.
- Rizzuto, C., "Formation of Localized Moments in Metals: Experimental Bulk Properties," (Addition of Magnetic Impurities) *Reports of Progress in Physics* **37** (2), 147-229 (1974).
- Izuyumov, Yu. A., and Kurmaev, Z. Z., "Physical Properties and Electronic Structure of Superconducting compounds with the β -tungsten Structure," *Usp. Fiz. Nauk.* **113**, 193-238 (1974); Translation, *Sov. Phys. Usp.* **17**, 356-380 (1974).
- Dew-Hughes, D., "Practical Superconducting Materials," (Required properties, available conductors, costs and applications) *Superconducting Machines and Devices*, ed. Foner, S., and Schwartz, B. B. (Plenum Press, New York, 1974) pp. 87-137.
- "Structure and Properties of Superconductive Materials," *Struktura i Svoistva Sverkhprovodiashchikh Materialov*, Eds. Savitskii, E. M., Baron, V. V., and Myzenkova, L. F., *Izdatel'stvo (Nauka) Moskva*, 1974, 184 p.
- Sugawara, T., "The Future of Superconductivity," *Bussei* **15** (9), 40-49 (1974).
- Burger, Jean-Paul, "La Supraconductivite des Metaux, Des Allages et des Films Minces," (Marson Et Cie, Editeurs, Paris, 1974), 174 pp.
- 1975
- Testardi, L. R., "Structural Instability and Superconductivity in A-15 Compounds," *Rev. Mod. Phys.* **47**, 637-48 (1975).
- Hake, R. R., "Phase Transitions in Type-II Superconductors," *Critical Reviews in Solid State Sciences*, In preparation.

9. AUTHOR INDEX

(Includes listed authors in Section 7, Bibliography)

Aalfeld, J.	1554	Andrianov, V. V.	438
Aapert, J. R.	1437	Andrievskii, V. V.	1278
Abe, H.	562	Andronikashvili, E. L.	105
Abeles, B.	595, 596, 1122, 1294	Androes, G. M.	205
Ackerman, C. C.	1052	Antesberger, G.	1675, 1737
Acrivios, J. V.	1871	Antonova, Ye. A.	992, 996, 1094
Adler, J. G.	484, 1126, 1318	Aoi, T.	1170, 1364, 1857, 1887
Adlhart, O.	444	Aoki, R.	673, 1171, 1357
Ageev, N. V.	823, 896, 1755, 1812	Aomine, T.	562, 910, 912, 1502
Ajami, F. I.	1592, 1593	Appert, J. R.	1168, 1169
Akhmedov, S. Sh.	1984	Armbruster, H.	1676
Akihama, R.	789	Armitage, C. H.	636
Alekseevskii, N. E.	2, 3, 4, 5, 6, 7, 8, 56, 59, 60, 103, 153, 154, 158, 197, 269, 323, 326, 427, 433, 516, 533, 560, 823, 824, 896, 897, 899, 908, 1028, 1092, 1479, 1590, 1683, 1707, 1725, 1727, 1729, 1738, 1747, 1748, 1753, 1755, 1769, 1812, 1874, 1876, 1880, 1881	Aron, P. R.	321, 368
Alexander, E. J.	1597	Arrhenius, G.	255, 449, 563, 1019, 1987
Allen, J. F.	86, 88, 99, 109, 111, 112	Artemenko, I. A.	532, 1921
Allen, L. D.	1052	Asada, T.	890
Allen, P. B.	1213	Asada, Y.	913, 916, 1353
Allgaier, R. S.	482	Asayama, K.	1362
Alterovitz, S.	1906	Aschermann, G.	161, 306
Alyushin, V. E.	1990	Ashkin, M.	770
Ambler, E.	621, 594	Aso, T.	1433, 1828
Anayama, T.	1175, 1396, 1444	Asprey, L. B.	504, 1936
Ancher, L. J.	857	Aston, D. R.	1408
Anderson, A. C.	1326	Atoji, M.	100
Anderson, C. A.	766	Aucoin, T. R.	1827
Anderson, D. E.	517, 652	Autler, S. H.	334, 524
Anderson, D. E.	839, 1203	Ayer, W. J., Jr.	1501
Anderson, G. S.	22, 227	Baberschke, K.	1499, 1598
Anderson, J. W.	1291	Babic, E.	1507, 1640
Anderson, R. A.	1711	Babiskin, J.	564
Andrews, D. H.	49, 243	Bachner, F. J.	1236, 1798
Andres, K.	494, 503, 574, 605, 606, 651, 698, 700, 705, 768, 769, 788, 963, 1233, 1338, 1340, 1370, 1389, 1508, 1584, 1589, 1617, 1863, 1965, 1993	Bacon, D. D.	1438
		Bader, W. G.	1917
		Bahl, S. K.	1844
		Baier, P.	852
		Baker, C.	682
		Bala, V. B.	128

AUTHOR INDEX (Cont'd)

Babus, M. D.	277, 507, 539	Berlincourt, T. G.	126, 157, 194, 218, 252
1202, 1272, 1472, 1556		268, 290, 349, 399, 466	
Baranov, I. A.	1745, 1873	Berman, A.	92
Barber, A. C.	818	Berman, H. S.	1239
Baberich, G. S.	520	Berman, I. V.	472, 785, 786
Barnes, L. J.	565, 805	829, 898, 1688, 1730	
Baron, V. V.	323, 825, 1814, 1889	Berndt, H.	832
1913, 1914, 1916, 1983		Beske, G. A.	1793
Barreti, C. S.	545	Bethoux, O.	1886
Barokii, I. M.	1591	Betz, C.	288
Barth, N.	78, 354, 881, 982, 1218	Bevolo, A. J.	1826, 1942, 1967
Barz, H.	1441, 1657	Bhandari, R.	1717
Barz, H. E.	1163, 1191	Bhardwaj, B. D.	1947
Basan, C.	1753	Bhatnagar, A. K.	1419
Basavaiah, S.	1042, 1397	Bierstedt, P. E.	582, 643, 644, 892, 1212, 1665
Batterman, B. W.	545, 1063	Birnbaum, H. K.	1326
Baumann, F.	1178, 1474	Bishop, J. H.	1118
Bayles, B.	419	Bither, T. A.	643, 644, 1212, 1379, 1665
Bazan, C.	1336	Bjerkaas, A. W.	1715
Bean, C. P.	331	Black, W.	1655
Beaudry, B. J.	536, 747, 1493	Black, W. C.	882, 1118, 1367
Beck, P. A.	195, 330, 514	Black, W. C., Jr.	840
Becker, J.	164	Blaisse, B. S.	519
Becker, J. H.	621	Blanc, J.	668, 1846
Beenakker, J. J. M.	297	Blanpain, R.	162
Beerntsen, D. J.	647, 654	Blaugher, R. D.	181, 182, 207, 216, 217
Behroozi, F.	1895	253, 266, 275, 300, 327, 369, 432, 452, 453,	
Belevtsev, B. I.	1785	464, 600, 601, 707, 1023, 1160, 1404	
Bellin, P. H.	1399, 1409	Bloom, D. W.	1114
Bellon, P.	1852	Blos, B.	1804
Bell, H.	839	Blumberg, R. H.	332, 367
Benda, J. A.	1943, 1992	Blumberg, W. E.	578
Bender, D.	417	Boato, G.	436, 598, 1394
Benesovsky, F.	447	Bogomolov, V. N.	1281, 1284, 1285
Benyon, A.	1489, 1544	1578, 1686, 1687	
Benz, H.	597	Bohm, H. V.	250
Berben, T. J.	528	Boiko, L. G.	906
Bergeron, C. J.	429	Boikova, K. I.	1873
Berghout, C. W.	358	Boivin, W.	1420
Bergmann, G.	599, 602, 1774, 1925, 1949	Boller, H.	370, 801
		Bommel, H. E.	424, 442, 502, 761, 1777

AUTHOR INDEX (Cont'd)

BonMardion, G.	356, 649	Buckel, W.	77, 95, 152, 183, 213, 214 353, 440, 459, 540, 779, 977, 1085, 1401, 1402, 1485, 1985
Bond, W. L.	503	Budnick, J. I.	188, 209, 375
Bondar, V. V.	154, 197	Buehler, E.	365, 384, 1006 1036, 1551, 1795
Bongi, G.	753, 1228, 1664, 1694, 1756, 1759	Bugo, M.	1394
Bonnerot, J.	812	Buhrman, R. A.	1830
Boom, R. W.	429	Bulaevskii, L. N.	1728
Boorse, H. A.	92, 231, 343, 344, 721, 1710	Bulow, H.	213
Booth, J. G.	1831	Bundy, F. P.	304
Borovich, T. L.	1667	Burckbuchler, F. V.	1618
Borzhitskaya, M. K.	792	Burgemeister, E. A.	1892
Bosio, L.	1046, 1047, 1048	Burger, J. P.	642, 750, 1076
Bots, G. J. C.	519	Burns, M. J.	450
Bowman, A. L.	271, 397	Burton, R.	1089, 1390
Boyd, J. D.	1188	Busch, G.	121, 130, 366
Bozorth, R. M.	174, 186, 187, 247, 534	Buschow, K. H. J.	1373, 1631, 1677
Bozowski, S.	923, 1410	Buttig, K.	1443
Braginski, A. I.	1629	Buxton, A.	485
Brahmer, W. G.	587	Buynov, N. N.	1740
Brandli, G.	1388, 1482	Bychkov, Yu. F.	971, 1666
Brandt, B. L.	888	Cable, J. W.	1854
Brandt, N. D.	8, 203, 437, 472, 551 785, 786, 829, 898, 995, 997, 998, 1301, 1608 1690, 1696, 1730	Cadieu, F. J.	885, 1173, 1945
Brewster, P.	1654	Cais, M.	1192
Brewster, P. M.	1118	Callen, E.	338
Brimhall, J. L.	838	Calverley, A.	170
Briscoe, C. V.	1533	Calverly, A.	244
Broadston, S.	625	Campbell, A. M.	1421
Brock, J. C. F.	1184, 1217	Campbell, C. K.	828
Bochier, D.	668	Cannon, J. F.	1585
Bown, J. B.	800	Cape, J. A.	523, 740, 759, 822, 842
Buckzch, W. F.	49	Capio, C. D.	646
Buning, H. A. C. M.	661, 1521, 1522	Caplan, S.	762
Bryant, C. A.	206, 389	Cappelletti, R. L.	536, 1157, 1269, 1561
Buchanan, J.	1230	Carcia, P. F.	622
Bucher, E.	130, 274, 276, 293, 295 415, 417, 418, 477, 557, 566, 567, 568, 569, 572 711, 712, 768, 769, 788, 972, 1154, 1338, 1340, 1370, 1389, 1564, 1582, 1589, 1930, 1964, 1965, 1993	Cardona, M.	1121, 1612, 1610, 1708
Buck, V.	1083	Caroli, B.	812, 950, 1296
		Carpenter, J. H.	312
		Carpenter, R. W.	1334

AUTHOR INDEX (Cont'd)

Carr, W. J. Jr.	1246	Chotkevich, V. I.	106
Carrison, C. C.	696	Chotkewitsch, W. I.	80
Carriker, R. C.	606	Chou, C.	232, 233
Carroll, K. J.	1539	Chu, C. W.	706, 836, 879, 952, 1018, 1257 1603, 1647, 1757, 1834, 1851, 1930, 1933
Carroll, K. J.	1540	Chu, T. L.	1807
Carruthers, J. A.	132	Chubov, P. N.	1302
Carsey, F.	1638	Chudnovskii, E. A.	1686, 1687
Carter, J. M.	1641	Claeson, T.	674, 732, 736, 959, 1232, 1304 1308, 1310, 1467, 1491, 1586, 1604, 1649, 1661, 1764, 1868, 1893, 1894, 1900, 1903
Casimir-Jonker, J. M.	74	Clairborne, L. T.	755
Castellano, R. N.	1441, 1657	Clarke, G. R.	1251
Caswell, H. L.	378, 379, 475, 521	Clayman, B. P.	1317, 1723
Catterall, J. A.	538, 847, 960	Clayton, D. A.	726
Cave, J. A.	1966	Clear, R. D.	1566
Chaikin, P. M.	1265	Cline, H. E.	751
Chandrasekar, B. S.	21, 134, 275, 439, 455 1225, 1300, 1415, 1610, 1632	Clogston, A. M.	364, 1510
Chang, C. - J.	589	Close, W.	1602
Chang, C. K.	1230	Cloud, W. H.	1665
Chang, Y. A.	967	Clune, L. C.	1781
Chanin, G.	319, 762, 1709	Clusius, K.	85
Chao, C. C.	697	Cobble, J. W.	
Charlesworth, J. P.	964	Cochran, J. F.	148, 193, 371, 476, 803
Chase, G. G.	1442	Cody, G. D.	185, 290, 473, 1124 1268, 1644, 1645, 1847
Chaudhari, R. D.	800, 888, 1963	Cohen, M. L.	610, 621, 709, 887, 1213
Cheeke, J. D. N.	1506, 856	Cohen, R. W.	595, 596, 1122, 1294
Chelkowski, A.	1261	Coleman, R. V.	1262, 1717
Chen, J. T.	1136	Coles, B. R.	256, 257, 265, 456 624, 1165, 1181, 1226, 1580
Chen, T. T.	1136, 1318, 1548	Coles, G. W.	485
Chen, W. Y. K.	1718	Colling, D. A.	1209, 1797
Cheng, C. H.	195, 330, 514	Collings, E. W.	929, 931, 1030, 1188 1412, 1613, 1712, 1941
Cheng, G. - K.	1973	Collver, M. M.	1325
Chernoplekov, N. A.	1704	Colwell, J. H.	594, 988
Cherney, O. A. E.	1194	Comberg, A.	699, 1925, 1932
Chester, P. F.	199	Compton, V. B.	41, 93, 127, 142, 173, 202, 212 224, 239, 270, 279, 394, 454, 469, 552, 961, 962, 1510
Chevrel, R.	1759	Compy, E. M.	973
Chigvinadze, Dzh. G.	1576		
Chiou, C.	320, 577, 693, 1704		
Chock, E. P.	1499		
Chol, G.	1724		

AUTHOR INDEX (Cont'd)

Connell, R. A.	342	Darby, J.	64
Connelly, D. L.	1620	Darby, J. B. Jr.	102, 408
Connella, M. J.	1411	Darnell, A. J.	424, 442, 502, 761
Connolly, A.	132	Darnell, F. J.	582, 644
Cook, A. J.	847, 940, 1307	DaSilva, J. F.	1087
Cook, D. B.	343, 344, 1710	Daunt, J. G.	45, 163, 166, 168, 555, 1151
Cooper, A. S.	503, 767, 769, 1080, 1154 1163, 1164, 1191, 1340, 1441, 1930, 1964, 1965, 1993	Davidov, D.	1261, 1499
Cooper, J. L.	298, 1849	Davies, J. P. N.	854
Cooblin, B.	812	Davies, M. R.	1132
Corak, W. S.	16	Davies, T. J.	1966
Cordona, M.	666, 978, 979	Davis, D. D.	174, 186, 187, 247
Corenzwit, E.	28, 25, 32, 34, 35, 93, 115, 116 125, 128, 142, 172, 173, 184, 196, 200, 201, 202, 211, 223, 224, 239, 247, 275, 279, 283, 352, 365, 454, 469, 486, 498, 563, 606, 700, 704, 705, 706, 767, 787, 876, 950, 1014, 1015, 1018, 1019, 1163, 1164, 1191, 1296, 1309, 1484	Davis, J. H.	974
Corsan, J. M.	485, 847, 940, 1307	Dawes, P. P.	1760, 1898
Cortes, R.	1047, 1048	Deardorff, D. K.	1559, 1958
Cotignola, J. M.	1227	Deaton, B. C.	843, 1264, 1955
Cotton, W. L.	1862	Deboer, J.	73
Cotts, R. M.	1616	Debruyn, Ouboter, R.	297
Courtney, T. H.	581, 593, 1196	Deck, R. J.	1411, 1927
Cox, J. E.	707, 942, 1023, 1160 1177, 1214, 1496, 1778	Decker, D. L.	159, 1407
Craven, R. A.	1621	Decker, W. R.	1123, 1271
Croft, A. J.	374	Defrain, A.	1046, 1047, 1048
Crow, J. E.	921, 1065, 1125, 1134 1224, 1259, 1329, 1429	Degtyareva, V. F.	1691
Cruceanu, E.	112, 1675, 1978	Dehaas, W. J.	15, 70, 71, 72, 73, 74 87, 90, 281, 381, 402, 403
Culbert, H.	1568	Deis, D. W.	770, 1044, 1246 1406, 1473, 1605, 1952
Culbert, H. V.	630, 1415, 1610, 1632	DeJong, L. N. J.	519
Cullen, G. W.	596, 1167, 1848	Dekhtyar, I. Ya.	1749
Cuomo, J. J.	1436	Delacruz, F.	1612, 1619, 1708
Curry, M. A.	339	DeLong, L. E.	1418, 1514
Curzon, A. E.	1512	Demodov, A. P.	1697, 1733, 1734
Dabbs, J. W. T.	47	Dempsey, C. W.	701
Damsma, H.	715, 927, 1245, 1377	Deneke, K.	1911
Danielson, G. C.	1136, 1942, 1967	Deneufville, J. P.	1447
Danner, S.	1109	Dernier, P. D.	1338, 1309
		Desavage, B. F.	1392
		Descouts, P.	1564
		Desorbo, W.	190, 248, 441, 592, 771 772, 1051, 1130, 1391
		Detrey, P.	791, 1505, 1571

AUTHOR INDEX (Cont'd)

Deutscher, G.	750, 1076, 1120, 1235, 1454, 1633	Dummer, G.	440, 459, 932, 1061
Devenyi, A.	1554	1071, 1109, 1923	
Devlin, G. E.	196	Dunaev, J. A.	307
Dew-Hughes, D.	1244, 1331	Duschechkin, Yu. A.	999
D'Heurle, F. M.	430	Duwez, P.	1116, 1908
Dickey, J. M.	1224	D'Yakov, I. G.	518, 1031
Dickson, C. C.	370, 801	Dykens, J. L.	1132
Diemer, E. A. P.	857	Dynes, R. C.	828, 1270
Diepers, H.	1804	Early, S.	1871
Dietrich, M.	1085, 1673, 1924	Easton, D. S.	1854
Dikovskii, V. Ya.	1591	Echarri, A.	678, 1331
Dillinger, J. R.	192, 938, 1000, 1204, 1257, 1607	Edelstein, A.	1568
DiSalvo, F. J.	1027, 1128, 1192, 1370	Edelstein, A. S.	1255
1871, 1872, 1965		Edwards, J.	1536
Dizhur, E. M.	1702	Efimov, Yu. V.	323, 825, 1814, 1889
Dmitrenko, I. M.	1684	1913, 1914, 1916, 1983	
Dmitriyev, V. P.	1328	Eguchi, H.	1143, 1358
Dobrovolskii, N. M.	1725	Ehrat, R.	936, 1452, 1836
Dio, T.	1205, 1463, 1594, 1789	Ehrenfreund, E.	1993
Doidge, P. R.	309, 664	Eichler, A.	904, 1817
Dokoupil, Z.	679, 1087	Eisenstein, J.	1
Donadieu, L.	985	Eisinger, J.	578
Donkersloot, H. C.	661	Ekvall, R. A.	1199
Donner, E. D.	1699	Elesin, L. A.	1685
Donohue, P. C.	891, 892, 1382, 1665	Enck, F. D.	1388
Donohue, T.	865, 867	Engelhardt, J. J.	1020, 1105, 1427, 1866
Dorsi, D.	310	Engel, U.	1598
Douglass, D. H., Jr.	332, 757, 758	Enstrom, R. E.	1167, 1168, 1169, 1210, 1437
1134, 1173, 1954		Entel, P.	1602
Doulat, J.	382	Epelboin, I.	1047, 1048
Downey, J. W.	102, 1001	Eremenko, V. V.	1302
Doyle, N. V.	331, 468, 835	Erickson, D. J.	1926
Druyvesteyn, W. F.	357, 407, 665, 683, 1529	Ershov, V. G.	993
Dubeck, L. W.	1260, 1408	Essmann, U.	944
Dubrovín, A. V.	1092, 1747, 1748	Evdokimova, V. V.	1279
Dubrovskaya, L. B.	1703	Evetts, J. E.	949, 1421
DuChatenier, F. J.	976	Ewert, S.	699, 1925, 1932
Ducla-Soares, E.	856, 1506	Fairbank, H. A.	179, 1605
Duffy, R. J.	734	Fal'Ko, I. I.	1700
Duke, J. F.	538	Falge, R. L. Jr.	172, 363, 490, 741
		783, 1214, 1909	

AUTHOR INDEX (Cont'd)

Fabshtein, I. I.	1277	Ford, P. J.	1507
Farges, J. P.	1120	Formicheva, L. N.	667
Farréll, D. E.	624, 1300, 1415, 1610, 1632	Forshey, W. O.	582
Fassnacht, R. E.	938, 1000, 1204, 1257, 1607	Fortman, J.	353
Fearday, J. H.	1269, 1713	Fowler, R. D.	504, 570, 1252, 1426, 1779, 1936
Fechner, D.	1067	Fradin, F. Y.	1896
Feder, J.	604, 642, 1263	Franck, J. P.	380
Fedotov, A. K.	1979	Franz, H.	20, 69, 83, 84, 89, 123
Fedotov, L. N.	438, 841	Frederikse, H. P. R.	611, 1005
Feldmann, W. L.	1403	Frei, C.	753
Felsch, W.	1229	French, R. A.	478, 1099, 1103, 1106, 1298
Fenichel, H.	1454	Freyhardt, H.	1312
Ferreira DaSilva, J.	679	Friebertshauser, P. E.	1273, 1274
Fertig, W. A.	1221, 1418, 1424 1488, 1657, 1671, 1843	Friederich, E.	306
Fietz, W. A.	1611	Frindt, R. F.	1317, 1535, 1536, 1809
Filippovich, E. I.	1028	Fukase, S.	1360
Finegold, L.	623, 813, 1114, 1332	Fukuroi, T.	462, 1140
Fink, H. J.	571	Fulde, P.	982
Finlayson, T. R.	1110, 1313, 1333, 1509, 1736	Fulton, R. C.	1964
Finnemore, D. K.	249, 536, 579, 613, 743 747, 806, 1123, 1135, 1158, 1266, 1271, 1291, 1457, 1493, 1549, 1561, 1563, 1637, 1775	Gager, W. B.	166
Fischer, E.	597	Gaidukov, Y. P.	60
Fischer, G.	1121, 1287	Galasso, F.	409, 419, 420
Fischer, J. J.	958	Galev, V. N.	1705
Fischer, O.	753, 1228, 1664, 1694, 1756, 1759	Galkin, A.	405
Fischer, O. H.	1295	Galkin, A. A.	826
Fisher, E. S.	698, 1416, 1495	Gallinaro, G.	436, 598
Fisk, Z.	256, 612, 782, 1014, 1484, 1840 1995	Galoshina, E. V.	1698
Fitzgerald, R.	563, 1019, 1418	Gamari-Seale, H.	1165, 1348
Fitzgerald, R. W.	1118, 1840	Gambino, R. J.	1131, 1183, 1240
Flach, R.	791, 1571	Gamble, F. R.	1027, 1078, 1128, 1192, 1802
Flippen, R. B.	643	Gandolfo, D. A.	831
Floyd, A. L.	9	Gardner, W. E.	724, 727, 729, 764, 836 879, 952, 1152, 1250, 1257, 1843
Flukiger, R.	922, 934, 945, 948, 1176 1420, 1692, 1721, 1756, 1772, 1852, 1944	Garfunkel, M. P.	1572, 1895
Fogel, A. A.	583, 1873	Garland, M. M.	1207, 1380
Fomicheva, L. N.	1735	Gatos, H. C.	277, 311, 355, 539, 640, 650 1039, 1107, 1231, 1236, 1299, 1306, 1393, 1399, 1409, 1553, 1790, 1792, 1798
Foner, S.	787, 876, 876, 1329, 1339 1503, 1551, 1597, 1653	Gaule, G. K.	444, 483

AUTHOR INDEX (Cont'd)

Gavaler, J. R.	708, 1044, 1174, 1344, 1383 1384, 1385, 1406, 1461, 1473, 1483, 1525, 1527, 1567, 1628, 1653, 1807, 1950	Gold, R. E.	1238
Gayley, R. I., Jr.	341	Goldman, A. M.	1543
Geballe, T. H.	34, 184, 207, 211, 223 224, 236, 239, 259, 270, 283, 292, 454, 469, 491, 494, 498, 503, 520, 552, 563, 575, 605, 606, 698, 700, 704, 705, 787, 866, 950, 962, 1011, 1027, 1037, 1080, 1146, 1192, 1215, 1296, 1510, 1514, 1551, 1871, 1943, 1987	Goldstein, R.	124
Geiser, R.	435	Golik, V. R.	346
Gel'D, P. V.	1703, 1808, 792	Golovashkin, A. I.	901, 1699, 1751, 1902
Geller, S.	34, 54, 58, 124, 140 141, 238, 285, 470, 471, 506, 515	Golyanov, V. M.	1733, 1734
Gendron, M. F.	229	Gomes De Mesquita, A. H.	461
Gentry, W. O.	1378	Goncharov, I. N.	971
Gerber, J. A.	875, 1447	Goodenough, J. E.	1236
Gerber, J. F.	313	Goodman, B. B.	23, 29, 177, 356, 372 382, 390, 435, 649, 807, 1839
Gershenson, M.	1454	Goodrich, G. W.	1560
Gerstenberg, D.	505	Gooen, K.	507
Gey, W.	440, 459, 641, 779, 977 1081, 1145, 1673, 1816, 1817, 1818, 1924	Gooen, K. H.	334
Gibson, J. W.	223, 369, 431, 432, 446 452, 464, 481, 482, 501, 526, 731, 1214, 1450	Goover, R. E.	1178
Gidley, J. A. F.	818	Gordon, D. E.	843, 1264, 1955
Gier, T. E.	1379	Gordon, J. E.	701, 802, 879
Giessen, B. C.	1039, 1231, 1386	Goridov, S. I.	1679
Gillespie, D. J.	1670	Gossard, A. C.	1146, 1215, 1965, 1993
Gillson, J. L.	643	Goto, Y.	1433, 1828
Ginsburg, D. M.	536, 737, 1157 1562, 1711, 1715, 1773	Gough, C. E.	827
Ginzberg, N. I.	203, 392, 437, 551, 829 997, 998, 1608, 1696	Granger, R.	1341, 1884
Giorgi, A. L.	271, 278, 284, 397, 633 784, 868, 869, 870, 871, 1147, 1148, 1149, 1222, 1961, 1971	Granqvist, C. G.	674, 1310, 1467, 1491, 1649 1764, 1868, 1893, 1894, 1899, 1900, 1903
Gittlemen, J. I.	923, 1410, 1565	Grant, A. J.	1853
Gladyshevskii, E. I.	1913, 1914, 1983	Grant, P. M.	1975
Glagoleva, V. P.	55, 61, 62	Grassie, A. D. C.	1489, 1544
Glover, R. F.	773, 990, 1229, 1474 1541, 1545, 1948	Grassman, P.	348
Goedemoed, S. H.	976	Green, B. A., Jr.	630
Goff, J. F.	1392	Green, D. B.	1544
Golanov, V. M.	1685, 1697	Green, R. W.	863
		Greene, R. L.	1943, 1975, 1986
		Gregory, E.	520, 695
		Gregory, S.	1714
		Gregory, W. D.	803, 1103, 1768
		Greiner, E. S.	94
		Greytak, T. J.	645
		Griessen, R.	1388
		Grimes, N. W.	1760, 1898
		Groat, J.	863

AUTHOR INDEX (Cont'd)

Gromer, J.	1648	Hanak, J. J.	185, 298, 473, 923, 1063 1167, 1168, 1239, 1410, 1565, 1848
Grunbaum, E.	1454	Hancox, R.	1040
Gschneider, K. A., Jr.	234, 1783	Hannay, N. E.	494
Guay, R. L.	634	Hanneman, R. E.	507
Gubser, D. U.	585, 1267, 1492, 1620 1674, 1778, 1946	Happel, H.	1428
Guenault, A. M.	361	Hardy, G.	474
Guertin, R. P.	1125, 1329, 1429	Hardy, G. F.	10, 42
Gueths, J. E.	804	Harland, H. B.	714, 796, 924, 1185
Guggenheim, J.	301	Harper, J. M. E.	1647
Gulick, J. M.	1242	Harris, E. P.	1004, 1907
Gumprecht, D.	1324	Harris, I. R.	655, 776, 853, 1520
Gupta, A. K.	1225	Harris, R. E.	1562
Gupta, K. P.	330, 514	Hart, H. R., Jr.	303, 586, 434
Guseinov, A. A.	1728	Hartsough, L. D.	859, 1363
Guseva, L. N.	1707, 1888	Hasimoto, Y.	860
Guthrie, G. L.	730, 838, 1480	Hasse, J.	851, 1067, 1108, 1485
Guts, Z. A.	583, 1873	Hatada, K.	1171
Guttman, L.	13, 44	Hatton, J.	64, 65
Guyon, E.	750, 1076, 1528	Hatt, B. A.	1455, 1456
Gygax, G.	118, 480, 493, 662, 1074, 1505	Hauser, J. J.	317, 512, 607, 716, 719 733, 756, 821, 1249, 1320, 1417, 1451, 1622, 1904
Hacket, W. H., Jr.	878	Havinga, E. E.	714, 715, 927, 1185 1245, 1372, 1377, 1938
Hadek, V.	1920, 1928	Hawk, R. M.	1319
Haemmerle, W. H.	1440	Hawlett, B. W.	702
Hagen, J.	692, 1155	Hayashi, H.	1400, 1652
Hagner, R.	299, 315, 1982	Hayashi, S.	1349
Hahn, S. H.	1386	Hayes, J. D.	1641
Hake, R. R.	126, 178, 194, 218, 252 268, 289, 335, 399, 466, 565, 584, 587, 616, 759, 805	Hayter, S. W.	1779
Haley, F. C.	243	Hazra, S.	1953
Hall, H. T.	1585	Healy, W. A.	1391
Hall, P. M.	505	Heaton, J. W.	428
Hallais, J.	1976	Hechler, K.	553, 588, 873, 880, 1107
Halperin, W. P.	1830	Hecht, R.	1850
Hamann, D. R.	821	Hedgcock, F. T.	1030
Hamblen, D. G.	1960	Hehemann, R. F.	1806
Hamilton, D.	549	Heim, G.	1085
Hamilton, D. C.	449, 486, 487, 489, 535, 563	Hein, R. A.	27, 30, 31, 135, 151, 167, 172 223, 228, 300, 363, 369, 431, 432, 446, 452, 464, 481, 482, 501, 526, 687, 707, 731, 741, 1022, 1023, 1139, 1160, 1177, 1214, 1450, 1674
Hammond, R. H.	1325, 1363, 1471, 1953		

AUTHOR INDEX (Cont'd)

Heine, V.	1340	Holm, B. A.	563
Heiniger, F.	276, 295, 415, 418, 477 554, 556, 557, 567, 572, 922, 934, 945, 948, 1002, 1176, 1431, 1564, 1772, 1852, 1944	Holtzberg, F.	534, 1292
Heller, W. R.	430	Holzer, P.	1924
Helvetia	1002	Hopkins, D. C.	180, 219, 613, 1641
Hempstead, C. F.	627	Hopkins, J. R.	1549, 1775
Hennepf, J.	663	Horiuchi, T.	890, 1465
Hennig, G.	46	Horn, F. H.	49, 97
Henry, W. E.	27, 288	Horn, G.	880, 1070
Hepburn, D. C.	1223	Horwitz, N. H.	250
Herbstein, F. H.	241	Hoshi, A.	1500
Hering, E.	1112	Hosler, R.	611
Hermann, A. M.	1927	Hosler, W. R.	594, 610, 621, 709, 1005
Hermon, E.	1626	Houston, B. B., Jr.	482
Hernandez, H. P.	321	Howlett, I. F.	113
Herold, J. S.	634	Hsieh, S. Y.	1633
Hilliger, F.	1582	Hsu, F. S. L.	365, 384
Hillmann, H.	968	Hsu, S. L.	310
Hill, D. C.	1347	Huang, S.	706, 1300, 1933
Hill, H. H.	504, 570, 590, 920 1057, 1252, 1669, 1851	Hubble, F. F.	1242
Hill, J. S.	1516	Huber, J. G.	865, 886, 951, 1012, 1226 1227, 1519, 1531, 1657, 1671
Hillairet, J.	177	Hudson, R. P.	423
Hillenbrand, B.	946, 1026, 1113, 1490 1569, 1658, 1805, 1820	Huebener, R. P.	883
Hilsch, P.	1069, 1793	Hufner, S.	1324
Hilsch, R.	77, 183, 213, 215, 296, 602, 1083	Hulbert, J. A.	677
Hindermann, D. K.	1146	Hulliger, F.	301, 413, 414, 1008 1219, 1508, 1517, 1584
Hindley, N. K.	1642	Hull, G. W., Jr.	184, 211, 224, 239, 283, 454, 469, 470, 471, 486, 498, 503, 506, 515, 520, 552, 563, 695, 700, 704, 705, 717, 678, 866, 950, 1011, 1019, 1037, 1080, 1206, 1215, 1219, 1296, 1508, 1517, 1584, 1871, 1964, 1965
Hines, W. A.	853	Hulm, J. K.	10, 11, 21, 29, 42, 43, 48, 134 136, 182, 207, 216, 217, 221, 253, 266, 275, 300 327, 431, 439, 455, 474, 481, 501, 524, 575, 601, 708, 770, 811, 813, 835, 1038, 1044, 1157, 1174, 1406, 1450, 1511, 1527, 1542, 1566, 1576, 1605, 1952, 1988
Hinrichs, C. H.	324	Huntley, D. J.	1809
Hirata, I.	860	Hutcherson, J. V.	634
Hirshfeld, A. T.	231	Ibel, K.	1811
Hitchcock, H. C.	368	Ignat'Eva, T. A.	591, 858, 998, 1878
Ho, J. C.	629, 656, 700, 929, 931 1188, 1412, 1613, 1712, 1941	Ikebe, M.	1837
Hoerig, H. E.	881, 982, 1428, 1897		
Hoffman, B. M.	1802		
Hokkeling, P.	1377		
Holleck, H.	447		

AUTHOR INDEX (Cont'd)

Ikushima, A.	833, 864	Johnson, R. T.	493, 882
Il'Ina, M. A.	902, 903, 909, 970 1211, 1280, 1282, 1283, 1702	Johnson, W. L.	1784, 1829, 1908
Indovina, P. L.	1316	Johnston, D. C.	614, 1305, 1346, 1659 1843, 1915
Inhaber, H.	1539, 1540	Johnston, H. L.	232, 233
Inoue, K.	1323, 1381, 1630, 1189	Johnston, J.	496, 497, 513, 573
Invarsson, J.	1586	Joiner, W. C. H.	453, 746, 1201
Isaacs, L. L.	1537	Jones, C. K.	439, 455, 481, 680, 708, 770 835, 1038, 1044, 1174, 1246, 1344, 1383, 1384, 1406, 1450, 1461, 1483, 1525, 1527, 1566, 1567, 1605, 1628, 1950, 1988
Isac, A.	1276	Jones, D. M.	1558
Ishida, F.	1205, 1789	Jones, G. O.	199
Ishida, K.	849	Jones, H.	753, 1228, 1664, 1694, 1756, 1759
Ishikawa, M.	967, 1623	Jones, K. A.	944, 1700
Isino, M.	1354, 1931	Jones, M. E.	1927
Itskevich, E. S.	902, 903, 909, 970 1211, 1280, 1282, 1283, 1702,	Jones, R. E.	122, 229, 1457
Ittner, W. B.	122	Jones, R. E., Jr.	1266
Ivanouskaya, G. F.	1328	Joseph, R. R.	1783
Ivanov, O. S.	1092, 1738, 1747, 1748, 1876	Junod, A.	945, 940, 1002, 1170 1469, 1852, 1944
Ivarsson, J.	1764	Juodakis, A.	848, 1440
Iwahashi, K.	1170, 1364	Jurriaanse, T.	281, 282
Iwasa, Y.	872	Justi, E.	66, 119, 161, 245, 306, 451
Jaccarino, V.	578	Just, W.	1811
Jackson, J. E.	1126, 1533	Kagiwada, R.	1638
Jacobs, I. S.	434	Kagle, B. J.	468
Jaffee, R. I.	1712	Kahn, P.	1419
James, B. W.	1132, 1223	Kakarov, V. M.	1879
Janocko, M. A.	700, 1174, 1344, 1383 1384, 1461, 1483, 1525, 1527, 1576, 1628, 1653 1950	Kalyuzhnaya, G. A.	1283
Jansen, H. C.	242	Kamenetskaya, D. S.	1666
Jansen, H. G.	139	Kammerdiner, L.	1432, 1825
Jayaraman, A.	506, 515, 549, 606, 1338	Kammerer, J. O. F.	619, 671, 837, 921, 1134, 1259
Jeitschko, W.	632	Kammlott, G. W.	821
Jennings, L. D.	325	Kampwirth, R. T.	883
Jensen, M. A.	257, 574, 625, 660, 744 963, 1049, 1134, 1570	Kanda, E.	810, 1172, 1354, 1857, 1931, 1951
Jerome, D.	1321, 1853	Kanis, J. M.	1377
Johansen, H. A.	1038, 1238	Kamewurf, C. R.	848, 1440
Johnson, A. C.	1927	Karasik, V. R.	895, 991, 993, 994, 1575, 1984
Johnson, D. L.	747, 806, 1158	Karimov, Yu. S.	1691
Johnson, G. R.	1954	Kartascheff, N.	832

AUTHOR INDEX (Cont'd)

Kasper, J. S.	304, 305	Kiseleva, K. V.	992, 1094, 1742
Katzman, H.	865, 867	Kiser, S. R.	604, 642
Kaufman, L. A.	875	Kissinger, H. E.	838, 1480
Kawabe, U.	1205, 1360, 1789	Kitada, M.	1463, 1464, 1789
Kawaguchi, T.	1171	Kitahata, S.	1433
Kawaguti, T.	1601	Kitchingman, W. J.	1977
Kawamura, H.	1600	Kiu, T. - H.	1973
Kawamura, N.	1171	Kjekshus, A.	1587
Kawarazaki, S.	1910	Klaassen, T. O.	1088
Keeler, W. J.	1493	Klein, J.	937, 1573
Keesom, P. H.	24, 206, 389, 527, 720 742, 745, 1243, 1472	Klemm, R. A.	1027
Keesom, W. H.	272	Klimashin, G. M.	790
Keller, J.	752, 1678, 1924	Kloholm, E.	577, 693
Kelly, E. M.	1080	Klose, W.	1822
Kelly, G. M.	1471	Knapp, G.	576
Kemper, R. S.	524	Knight, W. D.	205
Kennedy, K.	496, 628	Knorr, K.	1218
Kernahan, R. H.	653, 1138, 1161, 1162 1200, 1241, 1719, 1935	Kobayashi, N.	1837
Kertes, L.	51	Koch, C. C.	1130, 1334, 1343, 1537 1625, 1656, 1771, 1776, 1791, 1854
Keskar, K. S.	819, 1828	Koch, D.	460
Kessler, J.	1085	Kodess, B. N.	894, 1286, 1731, 1761, 1808
Keyston, J.	1046	Kogan, A. V.	1873
Khan, H. R.	1221, 1799, 1843, 1859	Kohnlein, D.	1816, 1818
Kharchenko, T. N.	1754	Kokoupil, Z.	1892
Khotkevich, V. I.	346, 401	Kolbe, C. L.	434
Khukhareva, I. S.	387, 971	Komata, T.	860
Khvostantsev, L. G.	1735	Komenou, K.	941
Kienzle, W. E.	1942	Komnik, Yu. F.	1278, 1785
Killpatrick, D. H.	508, 509	Konenou, K.	1175
Kim, K. S.	1012, 1016, 1137	Kono, A.	1276
Kim, Y. B.	627, 878	Koonce, C. S.	621, 709
Kimura, Y.	928, 1833	Kopetskii, Ch. V.	1286
Kinder, H.	1443	Kopetskii, T. V.	1765
King, C. N.	1943, 1992	Kopf, L.	1865
King, H. W.	677, 969, 1101	Korn, D.	1054, 1083, 1867
Kircher, C. J.	1293	Kornilov, I. I.	1874, 1888
Kirkorian, N. H.	1148	Koskimaki, D. C.	1783
Kirschner, I.	1650	Kostina, T. I.	8
		Kostorz, G.	1180

AUTHOR INDEX (Cont'd)

Kouvel, J. S.	1130	Lambert, M. H.	1184, 1250
Kraeft, B.	1786	Landau, J.	1864
Kramer, J.	306	Lane, C. T.	14
Kratzig, E.	752	Langereis, C.	461
Kreuzer, H.	1468	Lange, F.	147
Krikorian, N. H.	784, 868, 869, 870, 871	Lange, F. K.	467
Krivko, N. I.	583	Lange, J. N.	560
Krivosheev, V. K.	1281, 1284, 1687	Laquer, H. L.	1407
Kroeger, D. M.	1216, 1371, 1771, 1776, 1854	Lasbley, A.	1341, 1884
Kropschot, R. H.	189, 480, 662	Latysheva, V. I.	1749, 1750, 1752, 1980
Kronik, R.	1640	Laukhin, V. N.	1701, 1919
Kruglov, V. S.	1666	Lautenschlager, E. P.	636
Krupka, M. C.	784, 868, 869, 870 871, 1148, 1222, 1971	Lautz, G.	96, 263, 264
Kuan, W. - Y.	589, 1973	Laves, F.	568
Kubiak, R.	1767	Lavine, M. C.	1556
Kubota, Y.	911, 1356	Lavrova, O. A.	1726
Kudo, M.	1360	Lawless, P. A.	1605
Kuebler, N. A.	605, 651, 1146	Lawrence, P. E.	434, 1391
Kuhn, G.	1839	Lawson, A. C.	614, 793, 1118, 1193 1221, 1226, 1366, 1375, 1484, 1486, 1585, 1598, 1722, 1757, 1840
Kumagai, K.	1182, 1361, 1890	Lawson, A. W.	760, 1198
Kumasaka, N.	1133	Lazarev, B.	405, 81, 101, 144, 346, 395 518, 550, 591, 816, 817, 830, 1327, 1679, 1680, 1739, 1741, 1878, 1879
Kumerov, Yu. A.	1281	Lazareva, L. S.	591, 816, 817, 998, 1679, 1878, 1879
Kunz, W.	479, 1066	Lazerev, B. G.	998, 1877
Kunzler, J. E.	310, 365, 383, 384, 1706	Leblanc, M. A. R.	400
Kurakina, L. A.	1873	Leder, L. B.	1100
Kuritsin, V. B.	1761	Lee, J. A.	226
Kurkin, Yu. P.	472, 1688	Leenhouts, J. I.	461
Kurti, N.	12	Lefever, R. A.	1033
Kuwasawa, Y.	918, 943	Leger, A.	937, 1573
Kuz'menko, V. M.	1327, 1741, 1877, 1739	Legvold, S.	22, 227, 339, 863
Kuz'min, R. N.	155, 198, 237, 286, 287, 1588	Leksina, I. Ye.	841, 901, 1745
Kwan, S.	664	Leontic, B.	1640
Kwasnitza, K.	688	Lerf, A.	1770, 1845
Kwok, P. C.	1131	Lerner, E.	555, 1151
Lacaze, A.	356, 649	Leslie, J. D.	536, 1136, 1548
Lafleur, W. J.	311	Leslie, D. H.	126, 194, 268, 289, 399
Laibowitz, R. B.	1436		
Lalevic, B.	669		
Lam, D. J.	102		

AUTHOR INDEX (Cont'd)

Leupold, H. A.	231, 721, 1827	Lykhin, V. A.	1742
Levchenko, I. S.	901, 1699, 1751, 1902	Lynton, E. A.	318, 319, 340, 341, 345
Levinstein, H. J.	646, 1706	MacCrone, R. K.	1592
Levine, J. L.	1939	Mackliet, C. A.	1670, 1912
Levine, M. C.	1202	Macnair, D.	494
Levy, M.	639, 1220, 1470, 1638	Macvicar, M. L. A.	1636
Lewis, B.	485	Magradze, O. V.	1576
Libby, W. F.	424, 442, 502, 761, 865, 867	Mailfert, R.	1063
Liemersdorf, H.	1442	Maita, J. P.	202, 310, 465, 552, 704, 705 744, 768, 769, 788, 795, 866, 950, 1011, 1154, 1215, 1296, 1338, 1340, 1510, 1564, 1706, 1930, 1964, 1965, 1993
Lifanov, I. I.	56	Makarov, V. I.	591, 817, 858, 998, 1090, 1878
Lindenfeld, P.	799, 1633	Maki, K.	1638
Lindsay, J. D. G.	504, 570, 1252, 1426 1669, 1779, 1936	Makiej, B.	1020
Linker, G.	1786	Maksimov, Yu. A.	1874
Litominsky, M.	1102	Maldy, J.	985
Little, W. A.	400	Malishevskii, V. F.	1981
Liu, S. H.	754	Malkovich, R. Sh.	1686, 1687
Livingston, J. D.	322, 457, 458 1041, 1395, 1435	Malkov, Yu. S.	1888
Lock, J. M.	235	Mallon, R. G.	1159
Lohneysen, H. V.	1676	Maloney, M. D.	1612, 1619, 1708
London, H.	1251	Malseed, C. F. S.	685, 1288
Longinotti, L. D.	469, 704, 767, 1164, 1993	Mamiya, T.	713, 1170, 1364
Lotgering, F. K.	984	Manaila-Devenyi, R.	1554
Lou, D. Y.	1777	Man'kovskii, K. K.	1278
Lounasmaa, O. V.	291	Maple, M. B.	776, 794, 879, 886, 951 953, 1012, 1016, 1111, 1137, 1226, 1227, 1261, 1418, 1424, 1425, 1429, 1487, 1488, 1519, 1520, 1531, 1671, 1843
Love, G. R.	1791	Mapother, D. E.	148, 159, 180, 193, 219, 249 267, 329, 336, 337, 579, 814, 1004, 1620, 1906 1907, 1923
Love, W. F.	36, 189, 338	Marchand, J. F.	393
Lowell, J.	478, 981, 1103, 1298, 1330	Marchenko, V. A.	1286
Lowndes, D. H., Jr.	1332	Marcucci, S. G.	807
Lozinskiy, Y. U. N.	1328	MareziO, M.	1129, 1163, 1191, 1309
Lubell, M. S.	1241, 1371	Markarov, V. I.	1086
Luengo, C. A.	1227, 1424, 1425, 1531	Markowitz, D.	1618
Luhman, T. S.	1289, 1290, 1838, 1861	Marples, J. A. C.	1656
Lukaszewicz, K.	1767	Martin, D. L.	1166
Luo, H. L.	487, 658, 692, 697, 732 776, 846, 865, 867, 980, 1015, 1019, 1155, 1156 1232, 1315, 1432, 1520, 1617, 1646, 1693, 1825 1959	Martin, P. J.	1421
Lutes, O. S.	160, 726		
Lye, R. G.	1114, 1332		

AUTHOR INDEX (Cont'd)

Martin, R. B.	548	McConnell, H. M.	1078, 1195, 1802
Martienssen, W.	215	McConville, T.	544, 722
Martinet, A.	750	McCune, R. A.	1958
Martin, D. L.	380, 421, 765	McDonald, T. R. R.	520, 695
Mascall, A. J.	1512	McDonald, W. J.	1010
Mashovets, T. V.	1555	McInturff, A. D.	1442
Masker, W. E.	1615	McLachlan, D.	340
Mastel, B.	838	McLachlan, D. S.	1448
Masuda, Y.	713, 1170, 1352, 1364, 1856, 1887	McLennan, J. C.	99, 109, 111, 112, 113, 308
Mathis, R. D.	1787	McMillan, W. L.	1646
Mathur, M. P.	1246, 1473	McNiff, E. J., Jr.	787, 876, 1330, 1503 1551, 1597, 1653
Matsakova, A. A.	518, 816, 830, 1922	McWhan, D. B.	471, 520, 605, 695, 961, 1129
Matsui, T.	928	Meaden, G. T.	226, 226, 495
Matsuo, S.	1349, 1627	Medvedev, S. A.	992, 996, 1094, 1742
Matthias, B. T.	11, 19, 25, 28, 32, 33, 34, 35 37, 38, 39, 43, 48, 54, 93, 115, 116, 117, 124, 127, 128, 137, 138, 140, 142, 146, 171, 172, 173, 184, 186, 200, 201, 202, 204, 207, 211, 212, 216, 223, 224, 234, 236, 239, 240, 246, 247, 270, 271, 275, 279, 280, 283, 292, 352, 364, 422, 449, 454, 469, 486, 491, 494, 498, 500, 503, 504, 510, 552, 563, 570, 574, 575, 578, 590, 606, 615, 625, 659, 698, 700, 703, 704, 705, 767, 775, 777, 782, 787, 871, 876, 920, 950, 962, 1006, 1014, 1018, 1019, 1057, 1080, 1105, 1163, 1164, 1191, 1252, 1296, 1309, 1376, 1484, 1510, 1657, 1841, 1987	Meier, R.	1468, 1924
Matveeva, N. M.	1707, 1874	Meier, T.	965
Matytsin, A. I.	1591	Meijer, P. H. E.	1022
Matyushenko, N. M.	1922	Meincke, P. P. M.	1870
Matyushchenkov, V. K.	1919	Meissner, H.	26, 294, 672, 723, 734, 735, 862
Matzeu, M.	1316	Meissner, W.	20, 69, 75, 76, 83, 84 89, 123, 273, 404
Maxwell, E.	160, 873, 1151, 1254, 1405	Mel'Nikov, E. V.	1726
Mayadas, A. F.	1436	Mel'Nikov, V. I.	1327
Mayer, S. F.	1871	Mendelssohn, K.	98, 170, 226, 360 478, 1103, 1581
Mazelsky, R.	481, 482, 501, 813, 1566	Mendoza, E.	17, 390
Mazur, J.	850, 1032, 1085, 1097, 1596, 1934	Menth, A.	866, 1011, 1215
McCamont, J. W.	1273	Merraim, M. F.	255, 256, 257, 258, 260 261, 445, 487, 488, 489, 511, 576, 609, 670, 692, 728, 732, 754, 959, 1049, 1155, 1184
McCarthy, L. J.	1476	Meservey, R.	757, 758, 1460, 1634, 1782
McCarthy, S. L.	795, 955, 1478	Messier, R.	622
McClennan, J. C.	86	Methfessel, S.	534
McCollum, C. D.	1258	Meunier, F.	1076, 1120
McConville, G. T.	185, 473	Meyer, A.	1678
		Meyer, C. H.	1471
		Meyer, G.	1064, 1075, 1552
		Meyer, H.	543
		Meyer, J.	46
		Meyers, J.	1782

AUTHOR INDEX (Cont'd)

Meyer, O.	1786	Moodenbaugh, A. R.	612, 1453, 1488 1514, 1659, 1915
Migunov, L.	103	Moore, J. R.	98
Mihailovich, S.	1180	Moormann, W.	1055, 1545
Mihalisin, T. W.	1265	Mori, K.	1547
Mikhailov, G. O.	532	Morin, F. J.	202, 310, 465
Mikhailov, N. N.	326, 427, 823, 824 896, 907, 1726	Morozzodella, Rocca, A.	1322
Mikhalekov, V. S.	1749	Morozova, V. K.	583
Mikhailov, Yu. G.	131	Morris, R. C.	626, 1262, 1717
Mikheeva, M. N.	516, 1685, 1697, 1733 1734, 1880, 1881	Morriss, R. H.	1411
Milay, A. K.	1667	Morse, R. W.	755
Miller, C. E.	35	Morton, N.	1098, 1132, 1223, 1831
Miller, R. C.	431, 481, 482, 501 835, 983, 1088	Moser, S.	1178, 1474
Miller, R. E.	1124, 1190, 1268, 1339 1644, 1645	Moss, M.	1033
Miller, R. J.	1905	Mota, A. C.	1118, 1367, 1368, 1418, 1654, 1655
Milne, I.	1313, 1333, 1387, 1509, 1736	Motulevich, G. P.	841, 901, 1699 1745, 1751, 1902
Milne, J. G. C.	175	Mould, R. D.	337
Mingazin, T. A.	53	Moulton, W. G.	1242
Minomura, S.	681, 689	Mrstik, B. J.	1715, 1773
Mints, R. S.	1888	Muheim, J.	293, 415, 1096
Missell, F. P.	638	Muir, H.	288
Mitani, M.	1133, 1594	Muir, W. B.	1626
Mitchell, M. A.	804, 1153	Muller, A.	1720, 1810, 1821, 1822, 1823, 1832
Mitsui, T.	914, 1355	Muller, C.	359
Mitsuoka, T.	1396	Muller, J.	121, 130, 274, 276, 293, 295 301, 314, 328, 366, 412, 413, 415, 416, 417, 418, 477, 554, 557, 567, 568, 569, 572, 922, 934, 945, 948, 972, 1002, 1096, 1176, 1420, 1431, 1469, 1582, 1692, 1721, 1772, 1852, 1944,
Miura, K.	1972	Munkby, L.	1308, 1661
Miyata, H.	1627	Munson, R. A.	1130
Miyauchi, H.	1857, 1931	Murer, W.	1867
Mizusaki, T.	833, 864, 928	Murphy, D. W.	1871
Mizutani, U.	820	Murr, L. E.	1787
Mochel, J. M.	1538	Muto, Y.	1030, 1140, 1175, 1500, 1547, 1837, 1910
Moiseyev, A. I.	1744	Mydosh, J.	723
Molinie, P.	1853	Myshlyayev, M. M.	1765
Monceau, P.	1651, 1885	Nagai, N.	1465
Monju, Y.	1465	Nagasaki, H.	681
Mons, W.	1366	Nakajima, T.	1172, 1354, 1857, 1931, 1396
Montgomery, D. B.	684, 1034		
Montgomery, H.	802		

AUTHOR INDEX (Cont'd)

Nakhutin, I. E.	81	Noskin, V. A.	603, 1024, 1277
Narasimhan, S. L.	1579, 1969	Notarys, H. A.	1274
Narlikar, A. V.	1244, 1331	Noto, K.	1025, 1140, 1500, 1547
Nassau, K.	1338	1837	
Naugle, D. G.	989, 1069, 1545	Novick, D. T.	375
Neal, D. F.	618	Novikov, V. I.	603, 790, 1968
Nedellec, P.	1120	Novochatskai, N. I.	1765
Neighbor, J. E.	476	Novokshonov, V. I.	1279
Nembach, E.	861, 1297	Novotny, V.	1870
Nemoz, A.	668, 1413, 1766, 1846	Nowotny, H.	447
Neshpor, V. S.	603, 790, 815, 1968	O'Boyle, D. R.	1009
Nethercott, R. B.	685	O'Connor, D. A.	1760
Netzel, R. G.	192	O'Connor, P.	1532
Neubauer, H.	1079	Ochiai, S. I.	1636
Neugebauer, C. A.	529, 1199	Ocken, H.	845
Neunier, F.	1528	Ockers, S. T.	1144
Neuringer, L. J.	725, 739, 874, 875	Odaka, T.	833
0975, 1447		Oden, L. L.	1559
Newkirk, L. R.	893, 1518, 1643	Odermatt, R.	1664
Ng, S. C.	484	Oftedal, E.	1071
Nichols, G. E.	190, 248	Ogasawara, T.	834, 911, 917, 1356
Niemiec, J.	1303, 1336, 1337	1855	
Niessen, A. K.	683	Ohki, Y.	1172
Nikitin, V. P.	790	Ohta, N.	1929
Nikultin, E. I.	131, 1682	Ohtsuka, T.	673, 676, 808, 928
Nisel'son, L. A.	895	1350, 1357, 1359, 1890, 1929	
Nishioka, M.	1352	Ohtsuka, Y.	462
Nishimura, T.	1800	Okai, B.	681, 689
Niven, C. D.	308	Oliveira, N. F., Jr.	638
Nix, F. C.	338	Olsen, C. E.	504, 590, 1057, 1504
Nizhankovskiy, V. I.	1753	1926	
Noer, R. J.	802	Olsen, J. L.	480, 510, 546, 0569
Noguchi, S.	1349, 1627, 1276	662, 791, 639, 972	
Nohl, H.	1602	Olson, G.	1553
Nomura, K.	713	Olson, J.	691, 1824
Norman, M.	135	O Neal, H. R.	749
Norman, P. L.	1977	Onishi, T.	1972
Norton, L. J.	102	Onn, D. G.	543
Nose, H. J.	913	Onnes, K.	091
		Onoda, Y.	688

AUTHOR INDEX (Cont'd)

Onodera, Y.	819, 941, 1175, 1396 1433, 1439, 1828, 194	Paskin, A.	619
Onori, S.	1316	Pastore, J. R.	483
Opitz, W.	351	Patton, B. R.	1546
Orbach, R.	1261, 1499	Patterson, A.	1174, 1404, 1461
Orlov, A. F.	1328, 1667, 1732	Payne, R. T.	1787
Oshida, S.	1365	Pearsall, G. W.	581, 593
Osiecki, J. H.	1128, 1192	Pearson, G. J.	1153
Osipov, K. A.	1328, 1667	Pearson, W. B.	108, 150, 1587
Ostenson, J. E.	747, 1135, 1549	Pease, D. C.	1379
Otter, F. A., Jr.	336, 809	Pellicane, J. P.	923, 1410
Otto, G.	460, 564, 877, 880 1072, 1073, 1462	Pepperl, G.	1678
Ovadyahu, Z.	1454	Pereue, J. H., Jr.	1471
Ovcharenko, G. N.	518	Pessall, N.	514, 1038, 1238, 1404 1511, 1542
Ovcharenko, O. N.	816, 830	Peterson, D. T.	1123, 1291, 1563
Overcash, D. R.	1780	Peter, M.	364
Overton, W. C.	1052	Petrusevich, I. V.	895
Ovseichuk, E. A.	1875	Pfeiffer, E.	611
Oya, G.	1439, 1940	Pfeiffer, E. R.	709, 884, 935, 1005 1127
Pablo, M. R.	464	Pfeiffer, I.	968
Page, J. K. R.	1455, 1456	Phelan, R.	189
Palmer, P. E.	613	Phillips, N. E.	156, 422, 525, 537 620, 629, 656, 700, 749, 813, 887, 1184, 1250, 1494, 1566
Palmer, R. L.	730	Phillips, W. A.	1910, 1992
Palmy, C.	566, 569, 791, 933 0972, 1416, 1571	Pickett, G. R.	802
Pals, J. A.	519	Picklesimer, M. L.	230
Pan, V. M.	1749, 1750, 1752, 1980	Pickus, M.	628
Panosh, R. L.	1537	Pickus, M. R.	1234
Panova, G. Kh.	1704	Pike, G. E.	1572
Paoli, A.	1420, 1692, 1721	Pilipenko, V. V.	1278
Papastaikoudis, C.	1675	Pilipenko, Yu. A.	1302
Papp, E.	995, 1247	Pilot, A.	1322
Park, J. G.	624	Pincus, A. G.	331
Parker, E.	496, 571	Piper, J.	1035
Parker, E. R.	513, 573, 691, 859 1824	Pisharody, K. R.	1992
Parks, R. D.	888, 1065, 1125, 1134 1615, 1621	Pisharody, R.	1192
Parr, H.	1263, 1595	Poilis, N. J.	1088
Parthe, E.	370, 801	Pokorny, M.	1662, 1991
		Pollack, J. T. A.	1101, 1306, 1790, 1792

AUTHOR INDEX (Cont'd)

Pollack, S. R.	1042, 1397	Raub, Ch. J.	259, 260, 262, 394
Pollard, E.	640	449, 486, 491, 499, 500, 530, 535	
Pollard, E. R.	1039	552, 625, 717, 766, 962, 1060, 1221	
Polonis, D. H.	1289, 1290, 1579, 1861	1366, 1369, 1799, 1801, 1803, 1843, 1859	
1862, 1969		Raub, E.	962
Polukarov, Yu. M.	154, 197	Rauch, G. C.	631
Polyakova, V. P.	1989	Ray, R.	1386
Pomfret, D. G.	1132	Rayevskiy, I. I.	1747, 1748
Ponyatovskiy, Ye. G.	1084, 1746	Rayerskiy, I. K.	1092
Poon, S. J.	1829, 1908	Rayl, M.	298
Popova, S. V.	667, 906, 1735	Rayne, J. A.	300, 680
Popp, E.	1301	Read, M. H.	1320
Postnikov, V. V.	1762	Reale, C.	710
Potapov, N. N.	1093, 1743	Reeber, M. D.	143
Poulis, N. J.	987	Reed, T. B.	277, 311, 355, 1254
Prakash, H.	1305, 1695	1472	
Preece, C. M.	969	Reed, W. A.	1440
Prewitt, C. T.	643	Reevskii, I. I.	1738, 1876
Probst, C.	1996, 1957, 1994	Reichelt, K.	1443
Probst, H. B.	958	Reich, R.	580, 1043
Prokoshkin, A. F.	905	Reichert, V.	1108, 1485
Pruss, T. V.	831, 939	Reif, F.	251, 748
Pulis, N. J.	857	Reinmann, R.	416
Pusachev, N. S.	1922	Reinov, H. M.	131
Puzei, I. M.	905	Reintjes, J.	1196
Pyle, J.	409	Rembaum, A.	1530, 1920, 1928, 1974
Quaroni, J.	1626	Remeika, J. P.	1080, 1309, 1510
Quinn, D. J.	209, 320, 763	Renard, M.	362, 382
Rabenau, A.	528, 1911	Renucci, L.	1043
Rabin'kin, A. G.	900, 1084, 1091, 1691	Rettori, C.	1261, 1499
1701, 1703, 1705, 1746, 1919		Reuter, F. W.	1796
Rachinger, W. A.	685, 1110, 1288	Revelli, J. R.	1910
Radebaugh, R.	742, 1114	Revolinsky, E.	636, 647, 654
Raetz, K.	254	Reynolds, C. A.	804, 1153, 1606, 1618
Rairden, J. R.	529	Reynolds, J. M.	14
Ralls, K. M.	690, 1209, 1234, 1398	Rhoderick, E. H.	347
1471, 1796, 1797		Riblet, G.	1314, 1422, 1570, 1624
Rao, C. T.	1260	1676	
Rapp, O.	956, 1586, 1662, 1991	Rice, R. P.	1641
		Rietschel, H.	1673

AUTHOR INDEX (Cont'd)

Rinderer, L. 1502, 1836	348, 936, 1056, 1452	Rosler, U.	222, 398
Risi, M.	328	Rosner, L. G.	517, 652, 1203
Rivlin, V. G.	1455, 1456	Ross, R. L.	444, 483, 1827
Rizzuto, C. 1507	436, 598, 1322, 1394	Roth, M.	1531
Rjabinin, J. N.	80, 82	Roth, S.	1811
Rjabinin, Yu. N.	401	Rothberg, B. D.	1335
Robbins, M.	983	Rothwarf, F. 1260, 1408, 1827	370, 604, 642, 801
Roberts, B. W.	303	Rowell, J. M.	1403
Roberts, L. D.	047	Rowell, P. M.	170
Robertson, D. L.	1585	Roy, P. K.	1939
Robinson, D. A.	1220, 1470	Roy, R.	622
Robinson, G.	854	Royer, W. A.	1438, 1668
Robin, M. B.	605, 651, 1146	Rudorff, W.	1374
Roddy, J. T.	311	Rudy, E.	573
Rogan, F. H.	1895	Ruhl, W.	376, 1062
Rogener, H.	63	Rupp, G.	688
Roggen, R.	1420, 1721	Russell, C. M.	677
Rogowski, D.	622	Ruzicka, J.	1819
Rohrer, H.	799	Ryabinin, Yu. N.	106
Rohy, D.	1616	Ryvkin, S. M.	1555
Rollins, R. W.	1269, 1713, 1781	Sadagopan, E. R.	1039
Rolland, S.	1341, 1884	Sadagopan, V. 1399, 1409, 1553, 1792, 640	650, 1107, 1231, 1299
Rollin, R. V.	64, 65	Sahm, P. R.	831, 939, 1077
Romans, P. A.	1958	Saito, Y.	1175, 1396, 1444
Romanov, Ye. P.	1740	Sakharova, S. G.	1749
Romer, R. H.	701	Salamoni, E.	1507
Rorer, D. C.	543	Sambongi, T. 1557, 1869	914, 1351, 1355, 1423
Rorschack, H. E., Jr.	1159, 1947	Sanoilov, B. N.	1704
Roschel, E. 1859	962, 965, 1369, 1801	Sample, H. H.	875, 1447
Rose, K.	1501	Sampson, W.	1034
Rose, R. M. 1197, 1347, 1636, 1788	225, 631, 751, 944	Sampson, W. B.	1838
Rose-Innes, A. C.	244, 410, 428, 548	Samson, S.	1928
Rosenblum, B.	666, 978, 979, 1121	Samsonov, G. V.	333, 433, 560, 815
Rosenblum, E. S.	334	Sanchez, D. H.	1835
Rosenbaum, R.	1864	Santamaria, E.	985
Roshan, N. R.	1989	Sato, M.	1133
Rosi, F. D.	185, 473	Satoh, T. 1350, 1353, 1361,	676, 808, 916, 1182

AUTHOR INDEX (Cont'd)

Satterthwaite, C. B.	1117, 1187, 1673, 1905	Schwidial, K.	296, 377, 463
Saunders, G. A.	760, 1198	Schweitzer, D. G.	1660
Saur, E.	254, 299, 315, 359 386, 460, 479, 553, 564, 588, 877 880, 1056, 1059, 1066, 1070, 1107	Sclar, C. B.	696
Saur, E. J.	139	Scott, R. B.	391
Savitskii, E. M.	323, 825, 1014, 1889 1913, 1914, 1916, 1983, 1989, 1990	Seher, A.	883
Scanlan, R. M.	1435	Seiberth, J.	851
Scarborough, J. O.	1625, 1776	Seidel, G.	24
Schaeffer, G. M.	675, 797, 984	Seidel, T.	672, 735
Schaer, F. M.	1543	Seiden, P. E.	1292
Schepelev, J. D.	80	Sekizawa, K.	918, 943
Schindler, A. I.	1670, 1912	Sekula, S. T.	230, 429, 653, 1138 1161, 1162, 1200, 1719, 1935
Schinkel, C. J.	1677	Sellers, G. J.	1326
Schirber, J. E.	100, 114, 176, 1497, 1498, 1534	Sellmaier, A.	070
Schmidt, L.	778, 795, 955	Semenenko, E. E.	144, 395, 550, 1679 1680, 1877, 1739, 1741
Schmidt, P.	494	Senozan, N. M.	0525, 0620
Schmidt, P. H.	887, 1191, 1338, 1441 1526, 1657	Seraphim, D. P.	169, 0320, 0342, 0367 375, 430, 754, 1794
Schmitz, J. A.	801	Sereni, J. G.	1227
Schneider, D.	263, 264	Sergeeva, V. M.	1024
Schneider, J.	1468	Sergent, M.	1759
Schoep, G. K.	1088	Serin, B.	318, 319, 341, 345 0544, 0722, 1230
Schollhorn, R.	1770, 1845	Sernetz, F.	1770, 1845
Schooley, J. F.	594, 610, 611, 621 709, 884, 935, 1005, 1127, 1458, 1937	Sevastyanov, B. K.	373
Schrauzer, G. N.	1695	Seymour, E. F. W.	65
Schreiber, D. S.	488	Shafer, M. W.	1918
Schrey, F.	1787	Shal'nikov, A. I.	392, 895
Schroder, E.	96, 110	Shalty, S. S.	603, 790, 1024, 1277
Schubert, K.	222	Shamrai, V. F.	823, 896, 1753, 1755 1812
Schubnikow, L. W.	80, 82	Shanks, H. R.	1186, 1266, 1672, 1826 1942, 1967
Schultz, L.	1312	Shapira, Y.	638, 725, 739, 874 0975
Schultz, P.	386	Shappirio, J. R.	483
Schumacher, G.	1886	Sharma, S. K.	1554
Schwall, R. E.	1514, 1758	Sharvin, G.	104
Schwartz, B. B.	873	Shaw, R. W.	159, 180
Schwartz, C. M.	696	Shcherbak, I. A.	1813, 1815
Schwarz, H.	1112	Shchetkin, I. S.	1684, 1700, 1754

AUTHOR INDEX (Cont'd)

Sheahen, T. P.	803	Silverman, M. S.	961
Shebalin, I.	895	Simon, F.	12
Shebalin, I. Yu.	994, 996, 1577	Simon, H. E.	1566
Shekhtman, V. Sh.	1731	Sirota, N. N.	1875, 1979, 1981
Shelton, R. N.	614, 1722, 1757, 1758	Sirovatka, J.	1102
Shen, L. Y. L.	620	Sixl, H.	1648
Shepelev, I. D.	106	Sizov, B. T.	1666
Shepelev, Yu. D.	401	Sjostrand, M.	1472
Sherwood, R. C.	364, 788	Sklarz, E. G.	633
Shevets, A. D.	1031	Skoskiewicz, T.	1311, 1763
Shewchun, J.	1194	Skove, M. J.	974, 1780
Shibuya, Y.	462, 562, 910, 1601	Skryabina, M. A.	1092
Shier, J. S.	737	Skvortsov, A. I.	907
Shiffman, C. A.	476, 360	Sleight, A. W.	1212, 1379
Shigit, T.	495	Smarskii, Yu. A.	1727
Shikov, A. A.	1704	Smirnov, A. P.	101, 131
Shimashek, E.	385	Smirnova, E. M.	396, 411
Shimshick, E. J.	1195	Smirnova, M. N.	1726
Shirley, D. A.	887, 1494	Smith D. L.	1033
Shmulevich, R. S.	1745, 1873, 1984	Smith D. R.	1243
Shoenberg, D.	120, 165	Smith, F. T. J.	1393
Shtol'ts, A. K.	792, 1808	Smith, F. W.	1449, 1475
Shubert, K.	398	Smith, G. F.	655
Shubin, A. A.	841, 901, 1745	Smith, H. J. T.	1136, 1548
Shubnikov, L. V.	106	Smith, R. F.	608
Shubnikov, N. V.	401	Smith, T. F.	542, 629, 656, 657 658, 697, 698, 706, 724, 727, 729 764, 776, 836, 879, 952, 953, 954 1013, 1152, 1248, 1257, 1446, 1495, 1514 1520, 1722, 1757, 1758
Shulishova, O. I.	433, 558, 559, 560 0561, 1813, 1815	Smith, T. S.	45, 166, 168
Shull, R.	1306	Snider, J. W.	208
Shy, Y. M.	839, 1203, 1405, 1445	Snowden, D. P.	1471
Sidles, P. H.	1942, 1967	Sobiyeva, L. S.	1667
Sidorov, V. I.	1730	Soden, R. R.	1215
Sidorova, T. A.	583	Soehle, S.	419
Siebenmann, P. G.	564	Soklakov, A. I.	155
Siegwarth, J. D.	1114	Sokolov, V. I.	438
Siemens, R. E.	1559, 1958	Sokolov, V. V.	1968
Sienko, M. J.	1882	Solecki, J. C.	1766, 1846
Sikora, A.	1029	Somasundaram, R.	1445
Silbernagel, B. G.	94		
Silvera, I. F.	822, 842		

AUTHOR INDEX (Cont'd)

Somoano, R. B.	1530, 1532, 1920, 1928 1974	Stromberg, T. F.	718, 1743
Sood, B. R.	1663	Strongin, M.	179, 507, 541, 619 671, 837, 921, 1134, 1224, 1254, 1259
Sosniak, J.	1206	Struebing, V. O.	1669
Soulen, J. R.	961	Stuart, P. R.	1516
Soulen, R. J., Jr.	1492, 1946	Subba Rao, G. V.	1918
Sousa, J. B.	1513, 1550	Sudareva, S. V.	1740
Spedding, F. H.	22, 227, 339, 536 747	Sudovtsov, A. I.	101, 144, 395, 550 1327, 1749, 1750, 1752, 1877, 1980
Spencer, E. G.	1441	Suenaga, M.	1398, 1838
Spiering, G. A.	647, 654	Sugawara, T.	1143, 1358, 1477, 1833
Spitzer, H. J.	1275, 1345, 1524, 1956	Suhl, H.	93, 115, 116, 200 201, 247
Spitzli, P.	567, 922, 934, 945 948, 1002, 1176, 1469	Suits, J. C.	443
Spry, R. J.	208	Sukharevskii, A. V.	999
Staas, F. A.	683	Sukharevskii, B. Ya.	1700
Stark, R. W.	887	Sukhoparov, V. A.	970
Startsev, V. E.	1681, 1682	Sulkowski, C.	850, 1032, 1085, 1097 1596
Staudenmann, I. L.	711	Surikov, V. I.	792, 1808
Staudenmann, J.	948	Susz, C. H.	1721, 1944
Staudenmann, J. L.	945, 1176, 1431, 1469 1582	Suter, L. J.	1986
Steele, M. C.	167	Sutton, J.	682, 1414
Steele, M. G.	30	Suzuki, T.	1237
Steglich, F.	1676	Svistunov, V. M.	826
Steiner, P.	1324	Swartz, P. S.	316, 586
Stemple, N. R.	1240	Sweedler, A. R.	489, 500, 575, 625 1227, 1329, 1429, 1660, 1883
Stepanova, A. A.	129	Sweet, R. C.	1626
Stepanov, M. V.	1738	Swenson, C. A.	100, 114, 176, 324 0325, 0718, 0743
Stepanov, N. V.	1092, 1747, 1748, 1876	Swiggard, E. M.	1139
Stewart, G. R.	1871	Sychev, V. V.	438
Stillwell, E. P.	974, 1780	Sytnikov, V. A.	1745
Stoddart, C. T. H.	1516	Szklarz, E. G.	271, 278, 284, 397 784, 868, 869, 870, 871, 1147, 1148 1149, 1222, 1961, 1971
Storm, A. R.	1438	Tabet, E.	1316
Storms, E. K.	271, 397	Tachikawa, K.	872, 957, 1189, 1323, 1381, 1466, 1600, 1630, 1858
Stout, J. W.	13, 44	Taconis, K. W.	297
Stowell, W. R.	595	Taggart, R.	1289, 1290, 1579, 1861 1862, 1969
Strater, K.	1160, 1040		
Street, G. B.	1975, 1986		
Stritzker, B.	164, 1082, 1179, 1401 1402, 1901, 1985		

AUTHOR INDEX (Cont'd)

Takano, M.	1833, 1359	Toepke, I. L.	1117, 1187
Takashima, T.	1342, 1400, 1652	Togano, K.	1858
Takata, M.	919, 925, 1365	Tomasch, W. J.	798
Takayanagi, S.	1833	Tomoda, S.	917
Takeuchi, J.	1856	Tonkov, E. Yu.	900
Tanaka, Y.	957	Torre, J. P.	1709
Tanuma, S.	681, 689	Toth, L. E.	496, 513, 517, 571 573, 632, 635, 652, 691, 694, 839 966, 967, 1203, 1405, 1445, 1543, 1623 1824
Taylor, A.	266, 468, 835	Tovma, V. A.	438
Taylor, R. D.	1926	Townsend, P.	1714
Taylor, R. G.	1714	Toxen, A. M.	210, 450, 763, 1131 1183, 1240, 1918, 1939
Tedmon, C. S., Jr.	751, 1197	Toyota, N.	1500
Tedrow, P. M.	1460, 1634	Trauble, H.	844
Templeton, I. M.	150	Tret'yakov, B. N.	1761
Templeton, J. E.	887	Treyvaud, A.	753, 1228, 1756
Teplov, A. A.	1697, 1733, 1734	Triplett, B. B.	813, 887, 1494, 1566
Tereshina, N. S.	858, 1879	Trofimenkoff, P. N.	1482
Testardi, L. R.	1119, 1320, 1438, 1668 1706	Troinar, Y. E.	1753
Theiner, W.	1554	Trojnar, E.	1029, 1303, 1336, 1337
Theuerer, H. C.	512, 716, 719, 733 1249, 0756	Trunk, H.	1221
Thiel, R. C.	801	Tsao, H. W.	589
Tholfsen, P.	862	Tsebro, V. I.	899, 908, 1028, 1479 1725, 1727, 1729
Thomas, G. A.	1621	Tsetlin, M. B.	1733
Thomas, J. G.	17	Tsuda, N.	915, 1237
Thompson, A. H.	1430	Tsuei, C. C.	893, 1116, 1518, 1643 1718, 1784
Thompson, C. T.	313	Tsuya, H.	1141
Thompson, R. S.	921, 1259	Tsyarkin, S. I.	1873
Thomson, J.	456	Tulina, N. A.	1765, 1881
Thorland, E. O.	863	Tutov, V. I.	1679, 1680
Thorp, T. L.	887, 1494	Tylkina, M. A.	1990
Thorsen, A. C.	571	Uchida, M.	890
Thurber, W. R.	611	Uchida, Y.	1276
Tien, T. Y.	1988	Ugol'nikova, T. A.	1744
Tilley, D. R.	854	Ukei, K.	810, 1951
Tinkle, M. C.	1779	Ulbrich, C. W.	1153
Titov, A. V.	1211	Ullmaier, H.	1737, 1978
Tittman, B. R.	442, 502, 549, 761 0424		
Tobon, R.	802		

AUTHOR INDEX (Cont'd)

Ulmer, K.	637	Vikhlii, G. A.	1555
Umezawa, T.	1594	Vilches, O. E.	493
Umlauf, E.	1468, 1678, 1924	Viswanathan, R.	1193, 1305, 1315, 1346 1693, 1915
Usei, N.	917, 789, 889, 918	Vitovskii, N. A.	1555
Vaccarone, R.	1322	Vivaldi, F.	1322
Valby, L. E.	1142	Voepel, C.	1059
Valette, C.	642	Vogel, H. E.	1207
Vallier, J.	1046	Voigt, B.	273
Van Alphen, P. M.	72	Voigt, H.	855, 1720
Van Aubel, E.	15, 70, 71, 87 0381	Voitovich, I. D.	1921
Van Beelen, H.	297	Volger, J.	1007
Van Daal, H. J.	1373, 1631, 1677	Volkenshtein, N. V.	1681, 1682, 1698
Van Der Goot, A. S.	1523	Volotskaya, V. G.	830
Van Der Hoeven, B. J. C., Jr.	527, 720 0745	Volynskii, I. Ya.	1086, 1090
Van Der Meij, M. M.	1911	Von Herzen, M.	261
Van Kuykeren, N. W. J.	679, 1087	Von Minnigerode, G.	183, 191, 296, 602
Van Gorp, G. J.	448, 617, 1515	Von Molnar, S.	1292
Van Maaren, M. H.	624, 675, 714, 715 796, 797, 927, 930, 1150, 1185, 1373 1374, 1677, 1938, 1984	Von Philipeborn, H.	568
Van Ooijen, D. J.	357, 407, 1515, 1522 1523	Voogd, J.	15, 70, 71, 87 90, 381, 402, 403
Van Reuth, E. C.	330, 987, 1088, 1160	Voronova, I. V.	907, 1726
Van Vucht, J. H. N.	407, 661, 845, 1522	Vysotskii, V. S.	1575
Van-Engelen, P. P. J.	519	Wada, S.	1362
Vance, E. R.	1110	Wade, J. M. A.	949
Vandenberg, J. M.	1841, 1842	Waleh, A.	1635
Vasil'ev, N. G.	993, 1575	Walker, M. S.	1542
Veal, B. W.	300, 811	Wallace, I. C.	784, 1961
Venema, A.	393	Walmsley, D. G.	828, 1434
Vereshchagin, L. F.	1279	Wang, C. P.	694
Vereshchagin, V. G.	991	Wang, R.	1654
Vernon, S. N.	539	Wanlass, D. R.	1882
Vetrano, J. B.	838, 1480	Warburton, R. J.	1546
Veysie, J. J.	177, 668	Ward, D. A.	1387
Vieland, L. J.	947, 1115, 1190, 1253 1339, 1599, 1834	Waring, R. K., Jr.	582
Vielhaber, E.	980, 1015	Warren, W. H., Jr.	1917
Vieweg, G.	66	Wassermann, E.	1053
		Waszczak, J. V.	1871
		Watanabe, N.	1352
		Waterstrat, R. M.	707, 1023, 1160, 1177 1496

AUTHOR INDEX (Cont'd)

Watson, H. L.	1493, 1563	Wilkinson, G.	1895
Watson, J. H. P.	738, 986, 1045, 1319 1459, 1614, 1642, 1716	Wilkins, J. W.	1546
Waysand, G.	1885	Will, T. A.	1126
Weaver, J. S.	1945	Willens, R. H.	498, 704, 787, 983 1006, 1036, 1156, 1215, 1551, 1795
Webb, G. W.	530, 1017, 1021, 1105 1190, 1339, 1660, 1693, 1970	Williams, A. J.	174, 187
Webb, W. W.	1546, 1611	Williams, H. J.	364, 1510
Weber, R.	531	Williams, I.	538, 847, 960
Weger, M.	94	Williams, L. J.	1271
Wei, C. T.	195	Williams, M. W.	1234
Weil, L.	177	Williamson, J. D.	1896
Weill, L.	382	Williamson, S. J.	686, 1142, 1574, 1639
Weisbarth, G. S.	1122	Wilson, J. H.	189
Wejgaard, W.	1481	Wingbro, T.	1308, 1661
Wells, M.	628, 691, 1824	Winter, J. J.	1827
Wentorf, R. H.	305	Winzer, K.	1314, 1422
Wenzl, H.	832	Wipf, S. L.	1050
Wernick, J. H.	204, 310, 365, 406 645, 646, 866, 1011, 1438, 1668, 1706 1863, 1993	Wiseman, C. D.	1208
Werthamer, N. R.	733, 756	Witcomb, M. J.	1331
Westlake, D. G.	1144	Wittig, J.	540, 547, 618, 774 775, 777, 780, 781, 904, 977, 1016 1068, 1104, 1453, 1957
Westerhoff, H.	20, 83, 84, 89	Witting, J.	1994
Wexler, A.	16	Wizgall, H.	553, 684, 873, 877
Wheatley, J. C.	493, 882	Wohllenben, D.	1018, 1487
Whitehead, C. S.	350	Wohlleben, D.	1418
White, D.	232, 233	Wohlleben, D. K.	700
White, G. K.	133	Wohlleben, K.	1804
White, H. W.	1258	Wolcott, N. M.	27, 151, 302, 1214 1909
White, P. R.	384	Wolcott, S. C.	135
White, R. W.	504, 570, 1252, 1426 1669, 1779, 1936	Wolf, H.	1727
Wicklund, A. W.	1115, 1190, 1253, 1339 1599	Wolf, H. C.	1648
Wiederhold, E. W.	208	Wolf, S.	1225, 1633
Wiedemann, W.	149, 1994	Wolgasi, R. C.	321
Wilhelm, J. O.	86, 99, 109, 111 0112, 0113, 0308	Wollan, J. J.	1637
Wilhelm, M.	946, 1026, 1113, 1490 1569, 1658, 1820	Wood, E. A.	41, 128, 137, 142
Wilkes, W. R.	814	Woodard, D. W.	1847
		Woodhead, C. F.	1831
		Woods, S. B.	133
		Woollam, J. A.	1532, 1928

AUTHOR INDEX (Cont'd)

Woolcock, A.	818	Zakosarenko, V. M.	908, 1683, 1727, 1729 1769
Woolf, M. A.	251, 748	Zally, G. D.	1538
Wostenholm, G. H.	1132, 1223	Zambelli, A.	712
Wu, C. T.	1693	Zammit, T. J.	1419
Wu, T. M.	926	Zarubina, O. A.	1689, 1690
Wuhl, H.	699, 1058, 1082, 1179 1533	Zavaritskii, N. V.	220, 388, 1609
Wulff, J.	225, 581, 631, 1196 1197, 1209, 1793, 1796, 1797	Zbasnik, J.	966, 1405, 1543
Wulffers, L. A. G. M.	857	Zebouni, N. H.	1635
Wurm, J.	1056	Zegler, S. T.	408, 492, 648, 1001 1806
Yama, K.	914	Zehl, O.	1844
Yamamoto, M.	1929	Zemansky, M. W.	92, 343, 344, 1710
Yamashita, T.	819, 941, 1175, 1396 1433, 1828	Zenkevich, V. R.	438
Yamaya, K.	1355, 1423, 1557, 1891	Zhang, Y. -H.	1962
Yosohama, K.	880, 1855	Zhdanov, G. S.	53, 55, 57, 59 61, 62, 107, 145, 153, 155, 158 198, 237, 286, 287, 396, 1588
Yasukochi, K.	426, 789, 911, 917 918, 943, 1356	Zhuravlev, N. N.	50, 51, 52, 53 57, 59, 107, 129, 145, 153, 155 158, 198, 396, 411, 425, 1588
Yatsuk, L. A.	1278, 1785	Zhuze, V. P.	1024
Yen, C. M.	517, 632, 652, 694 1203	Zibold, G.	1867
Yen, H.	1116	Ziegler, G.	1804
Yencha, A. J.	442	Ziegler, W. T.	9, 18, 40, 49 0067, 0068, 0097
Yntema, G. B.	809	Ziemba, G.	1860
Yocom, P. N.	601	Zolotukhin, I. V.	1762
Yoshihiro, K.	1948	Zoric, I.	1640
Yoshida, S.	1477	Zucker, M.	318
Yoshida, Y.	1466	Zwicker, U.	499, 522, 965, 1000 1801, 1803
Young, H. S.	643, 891, 1665	Zyuzin, N. I.	129
Young, R. A.	9, 18, 40, 67		
Yukhanov, V. A.	1765		
Yun Lung Shen, L.	525		
Yvon, K.	1420, 1721		
Zachariasen, W. H.	25, 146, 491, 698 767, 1019, 1305, 1486		
Zacharko, W.	1085, 1767, 1934		
Zackay, V. F.	571, 628, 691, 859 1824		
Zagryazhskii, V. L.	792, 1808		
Zakharov, A. E.	1091		