



U.S. DEPARTMENT OF COMMERCE / National Bureau of Standards

**A Bibliography of the
Russian Reference Data Holdings
of the Library of the
Office of Standard Reference Data**

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no. 848
1974

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards¹ was established by an act of Congress March 3, 1901. The Bureau's overall goal is to strengthen and advance the Nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the Nation's physical measurement system, (2) scientific and technological services for industry and government, (3) a technical basis for equity in trade, and (4) technical services to promote public safety. The Bureau consists of the Institute for Basic Standards, the Institute for Materials Research, the Institute for Applied Technology, the Institute for Computer Sciences and Technology, and the Office for Information Programs.

THE INSTITUTE FOR BASIC STANDARDS provides the central basis within the United States of a complete and consistent system of physical measurement; coordinates that system with measurement systems of other nations; and furnishes essential services leading to accurate and uniform physical measurements throughout the Nation's scientific community, industry, and commerce. The Institute consists of a Center for Radiation Research, an Office of Measurement Services and the following divisions:

Applied Mathematics — Electricity — Mechanics — Heat — Optical Physics — Nuclear Sciences² — Applied Radiation² — Quantum Electronics³ — Electromagnetics³ — Time and Frequency³ — Laboratory Astrophysics³ — Cryogenics³.

THE INSTITUTE FOR MATERIALS RESEARCH conducts materials research leading to improved methods of measurement, standards, and data on the properties of well-characterized materials needed by industry, commerce, educational institutions, and Government; provides advisory and research services to other Government agencies; and develops, produces, and distributes standard reference materials. The Institute consists of the Office of Standard Reference Materials and the following divisions:

Analytical Chemistry — Polymers — Metallurgy — Inorganic Materials — Reactor Radiation — Physical Chemistry.

THE INSTITUTE FOR APPLIED TECHNOLOGY provides technical services to promote the use of available technology and to facilitate technological innovation in industry and Government; cooperates with public and private organizations leading to the development of technological standards (including mandatory safety standards), codes and methods of test; and provides technical advice and services to Government agencies upon request. The Institute consists of a Center for Building Technology and the following divisions and offices:

Engineering and Product Standards — Weights and Measures — Invention and Innovation — Product Evaluation Technology — Electronic Technology — Technical Analysis — Measurement Engineering — Structures, Materials, and Life Safety⁴ — Building Environment⁴ — Technical Evaluation and Application⁴ — Fire Technology.

THE INSTITUTE FOR COMPUTER SCIENCES AND TECHNOLOGY conducts research and provides technical services designed to aid Government agencies in improving cost effectiveness in the conduct of their programs through the selection, acquisition, and effective utilization of automatic data processing equipment; and serves as the principal focus within the executive branch for the development of Federal standards for automatic data processing equipment, techniques, and computer languages. The Institute consists of the following divisions:

Computer Services — Systems and Software — Computer Systems Engineering — Information Technology.

THE OFFICE FOR INFORMATION PROGRAMS promotes optimum dissemination and accessibility of scientific information generated within NBS and other agencies of the Federal Government; promotes the development of the National Standard Reference Data System and a system of information analysis centers dealing with the broader aspects of the National Measurement System; provides appropriate services to ensure that the NBS staff has optimum accessibility to the scientific information of the world. The Office consists of the following organizational units:

Office of Standard Reference Data — Office of Information Activities — Office of Technical Publications — Library — Office of International Relations.

¹ Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.

² Part of the Center for Radiation Research.

³ Located at Boulder, Colorado 80302.

⁴ Part of the Center for Building Technology.

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A Bibliography of the Russian Reference Data Holdings of the Library of the Office of Standard Reference Data

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Howard J. White, Jr.

Office of Standard Reference Data
National Bureau of Standards
Washington, D.C. 20234

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NATIONAL BUREAU OF STANDARDS, Richard W. Roberts, *Director*

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WASHINGTON: 1974

A Bibliography of the Russian Reference Data Holdings of the Library
of the Office of Standard Reference Data

Gertrude B. Sherwood and Howard J. White, Jr.

This text presents a listing of the Russian reference data holdings of the library of the Office of Standard Reference Data of the National Bureau of Standards as of March 1974. In addition to the bibliographic listing, information on the status of translations into English is given where available.

Key words: Bibliography; reference data; Russian literature.

A Bibliography of the Russian Reference Data
Holdings of the Library of the
Office of Standard Reference Data

Gertrude B. Sherwood and Howard J. White, Jr.

The Office of Standard Reference Data of the National Bureau of Standards (NBS), as part of its responsibilities as program manager for the National Standard Reference Data System, maintains a reference data library. This library is limited almost entirely to material containing critically evaluated data in the physical sciences and closely related reference material such as annotated bibliographies. It is physically separate but closely coordinated with the main NBS Library which is, of course, much larger and broader in scope.

In the course of building up a comprehensive collection of materials containing critically evaluated data, the library has come into possession of a substantial collection of books in Russian. This is not surprising since the central reference data system within the USSR is large and vigorous and is supplemented by the activities of some other agencies. Also, the members of the staff of the Office of Standard Reference Data through their international activities have developed contacts with their Russian counterparts which enable them to obtain many of the reference data books which are published in the USSR.

Since it is often difficult to learn about such books and obtain them, these holdings constitute a set of considerable intrinsic interest which would be very difficult to duplicate. As a result, several individuals and organizations have expressed interest in knowing about them.

It is the purpose here to list the Russian holdings of the Office of Standard Reference Data Library as of March 1974. Because of the general importance of reference data books and the lack of proficiency in Russian in the USA, several of these books have been translated into English or are in the process of being translated. If a translation is included in the holdings or if one is known to exist or the book is known to be in the process of translation, appropriate information on the translation is also included.

The following information is given for each book according to the following code:

AU: Author(s)
ED: Editor(s)
ET: English Title (GT: German Title, FT: French Title)
TT: Transliterated Title
ES: English Series note
TS: Transliterated Series note
OP: Original Publisher
TP: Translation Publisher
EC: English Corporate author
TC: Transliterated Corporate author
TR: Translator
TE: Translation Editor
CL: OSRD Classification Number
TN: Translation Note
NT: Notes of special nature

Some comment might be made on the presence of some material about Russian texts in transliterated form. One problem in dealing with texts in foreign languages is the latitude in translation provided by synonyms and words of multiple meaning which, in turn, allows different translators to arrive at different translations for, among other things, the title of a book or a series. A bibliographer, chancing on these different titles, is at a loss to know whether or not they refer to the same text or different texts with slightly different titles. If the title is also presented in its original language, the problem is solved; however, in the case of Russian, this would require printing capabilities in the Cyrillic as well as the Roman alphabet. An acceptable solution to this latter problem is provided by transliteration of the Cyrillic text into a Roman form. Once again there is some latitude in carrying out the transliteration, but enough redundancy is introduced by the added information to practically eliminate the problems introduced by translation.

Translation is an expensive process and facilities for carrying out translation are limited. As a result there is a central clearing house for translation projects which is used by all government agencies and many private organizations to prevent inadvertent duplication. The information on planned translations is obtained from the National Technical Information Service which runs the clearing house. Volumes which are known to be in the process of translation have been identified in the text. It is possible that others, now only available in Russian, will be translated. Interested readers should check with the National Technical Information Service for current information.

Availability of the translations, or occasionally, the original Russian text is shown as available from GPO or NTIS. The address of the former is Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The address for those shown as available from NTIS is National Technical Information Service, Springfield, Virginia 22151.

AU: Abagyan, L.P., F.F. Mikhailov, M.N. Nikolaev,
V.V. Orlov
ET: Bulletin of the Information Center on Nuclear
Data, Supplement: Propagation of Resonant
Neutrons in Homogenous Media, Theory and
Special Functions
TT: Byulleten' Informatsionnogo Tsentra po Yadernym
Dannym Prilozhenie: Rasprostraneniye
Rezonansnykh Neitronov v Gomogennykh Sredakh,
Teoriya i Spetsial'nye Funktsii
OP: Atomizdat, Moscow, 1968, 200 pages
EC: State Committee on the Development of Atomic
Energy, USSR
TC: Gosudarstvennyi Komitet Ispol'zovaniyu Atomnoi
Energii, SSSR
CL: *2.25-2.2
TN: None

AU: Abas-Zade, A.K., E.E. Shpil'rain (Editors)
ET: Thermophysical Properties of Liquid
TT: Teplofizicheski Svoistva Zhidkostei
OP: Izdatel'stvo "Nauka", Moscow, 1970, 224 pages
EC: Academy of Science, USSR
EC: Scientific Council on the Complex Problem "High
Temperature Thermophysics"
EC: The Ministry of Power and Electrification, USSR
EC: I.G. Es'mana Azerbaidzhan Scientific Research
Institute of Energy
TC: Akademiya Nauk SSSR
TC: Nauchnyi Sovet po Kompleksnoi Probleme
"Vysokotemperaturnaya Teplofizika"
TC: Ministerstvo Energetiki i Elektrifikatsii SSSR
TC: Azerbaidzhanski Nauchno-Issledovatel'skii
Institut Energetiki im. Es'mana
CL: *8.2
TN: Partially translated by FTD. FTD-MT-24-117-71,
October 1971, 119 pages. Available from NTIS
as AD735467.

Translation

AU: Abrikosov, N.Kh., V.F. Bankina, L.V. Poret'skaya,
L.E. Shelimova, E.V. Skudnova
ET: Semiconducting II-VI, IV-VI, and V-VI Compounds
TT: Poluprovodnikovye Soedineniya, Ikh Poluchenie i
Svoistva
TP: Plenum Press, New York, 1969, viii + 252 pages
OP: Nauka Press, Moscow, 1967, corrected and updated
for the translation
EC: A.A. Baikov Institute of Metallurgy
EC: Academy of Sciences of the USSR
TR: Tybulewicz, A.
CL: *4.1-8.1

AU: Adamchuk, Yu.V., V.N. Andreev, G.Z. Borukhovich,
A.V. Ignatyuk, I.A. Korzh, V.A. Naumov, A.I.
Obukhov, Yu.P. Popov, E.I. Shestoperova
ED: Shestoperova, E.I. (Editor-in-Chief)
ET: Nuclear-Physical Research in the USSR, Annotated
Collection Issue 7
TT: Yaderno-Fizicheskie Issledovaniya v SSSR,
Sbornik Annotatsii, Vypusk 7
OP: Atomizdat, Moscow, 1969, 61 pages
TN: None
CL: *2.7

AU: Agashkin, O.V., V.I. Artyukhin, G.S. Litvinenko,
T.T. Omarov, D.V. Sokolov, K.I. Khludneva,
S.S. Chasnikova
ET: Atlas of Infrared Spectra of Stereo-Isomers
Derived from Decarhydroquinolines
TT: Atlas Infrakrasnykh Spektrov Prostranstvennykh
Isomerov Proizvodnykh Degagidrolkhinolina
OP: Izdatel'stvo "Nauka" Kazakhskoi SSR, Alma-Ata,
1969, 114 pages
EC: Academy of Science of the Kazakhskoi SSR
EC: Institute of Chemical Science
TC: Akademiya Nauk Kazakhskoi SSR
TC: Institut Khimicheskikh Nauk
CL: *3.3
TN: None

AU: Amatuni, A.N.
ED: Es'kova, N.A.
ET: Methods and Instruments for the Determination of
Temperature Coefficients of the Linear
Expansion of Materials
TT: Metody i Priory dlya Opredeleeniya
Temperaturnykh Koeffitsientov Lineinogo
Rasshireniya Materialov
OP: Izdatel'stvo Standartov, Moscow, 1972, 140 pages
CL: *8.2
TN: None

AU: Amirzhanov, Kh.I., G.V. Stepanov, B.G. Abbekov
ED: Vukalovicha, M.P.
ET: Isochoric Heat Capacity of Water and Steam
TT: Izkhorimaya Teploemkost' Vody i Vodyanogo Para
OP: Akademiya Nauka, Dagestan Branch, Makhachkala,
1969, 216 pages
CL: *8.1
TN: In process by AMERIND

AU: Avilova, I.V., L.M. Biberman, V.S. Vorob'ev,
V.M. Zamalin, G.A. Kobzev, A.N. Lagar'kov,
A.Kh. Mhatsakanyan, G.E. Norman
ED: Biberman, L.M.
ET: Optical Properties of Hot Air
TT: Opticheskie Svoistva Goryachego Vozdukh
OP: Izdatel'stvo "Nauka", Moscow, 1970, 320 pages
EC: Academy of Science, USSR
EC: High Temperature Institute
TC: Akademiya Nauk SSSR
TC: Institut Vysokikh Temperatur
CL: *3.1-8.1
TN: None

AU: Batarchukova, N.R., L.A. Irikova
ET: Wavelengths of Monochromatic Light Sources and
the Index of Refraction in Standard and Normal
Air
TT: Dliny Voln Monokhromaticheskikh Istochnikov
Sveta i Pokazately Pr lomleniya v Standartnom
i Normal'nom Vozdukh
OP: Izdatel'stvo Komiteta Standartov, Mer i
Izmeritel'nykh Priborov pri Sovete Ministrov
SSSR, Moscow, 1968, 194 pages
EC: All-Union Scientific-Research Institute of
Metrology of D.I. Mendeleeva
EC: State Office of Standards and Reference Data
TC: Vsesoyuznyi Nauchno-Issledovatel'skii Institut
Metrologii im. D.I. Mendeleeva
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnykh Dannyykh
CL: *8.1

Translation

AU: Berezhnoi, A.S.
 ET: Silicon and Its Binary Systems
 TT: Krennii i Ego Binarnye Sistemy
 TP: Consultants Bureau, New York, 1960, 275 pages
 OP: Academy of Sciences of the Ukrainian SSR, Kiev, 1958
 EC: Academy of Sciences of the Ukrainian SSR
 CL: *4.1-3.1-8.1

Translation

AU: Eramson, M.A.
 ET: Infrared Radiation, A Handbook for Applications
 TT: Inftrakrasnoe Izluchenie Nagretykh Tel Spravochnye Tablitsy po Inftrakrasnomu Izluchenyu Nagretykh Tel
 TP: Plenum Press, New York, 1968, 623 pages
 OP: Nauka Press, Moscow, 1964
 EC: Academy of Sciences of the USSR
 TR: Rodman, R.B.
 TE: Wolfe, W.L.
 CL: *3.0

AU: Britske, E.V., A.F. Kapustinskii, B.K. Veselovskii, L.M. Shamovskii, L.G. Chentsova, B.I. Arvaer
 ET: Thermal Constants of Inorganic Substances
 TT: Termicheskie Konstanty Neorganicheskikh Veshchestv
 OP: Izdatel'stvo Akademii Nauk SSSR, Moscow, Leningrad, 1949, 1014 pages
 EC: Academy of Science, USSR
 EC: Institute of Metallurgy of A.A. Baikova
 TC: Akademiya Nauk SSSR
 TC: Institut Metallurgii im. A.A. Baikova
 CL: *8.1, photocopy
 TN: None

AU: Denisov, E.T.
 ET: Rate Constants for Homologous Liquid Phase Reactions
 TT: Konstanty Skorosti Gomoliticheskikh Zhidkofaznykh Reaktsii
 OP: Izdatel'stvo "Nauka", Moscow, 1971, 711 pages
 EC: Academy of Science, USSR
 EC: The Order of Lenin Institute of Chemical Physics
 TC: Akademiya Nauk SSSR
 TC: Ordена Lenina Institut Khimicheskoi Fiziki
 CL: *5.1
 TN: Available from Plenum Press

AU: Esel'son, B.N., Yu.P. Blagoi, V.N. Grigor'ev, V.G. Manzhelii, S.A. Mikhalenko, N.P. Neklyudov
 ET: Properties of Liquid and Solid Hydrogen
 TT: Svoistva Zhidkogo i Tverdogo Vodoroda
 ES: Review Handbook No. 1
 TS: Spravochnye Obzory, No. 1
 OP: Izdatel'stvo Standartov, Moscow, 1969, 136 pages
 EC: Committee of Standards, Measures and Measuring Instruments of the Soviet Ministry, USSR
 EC: State Office of Standards and Reference Data
 TC: Komitet Standartov, Mer i Izmeritel'nykh Priborov pri Sovete Ministrov SSSR
 TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
 CL: *8.1
 TN: Available from NTIS as TT 70-50179

Translation

AU: Esel'son, B.N., Yu. P. Blagoi, V.N. Grigor'ev, V.G. Manzhelii, S.A. Mikhalenko, N.P. Neklyudov
 ET: Properties of Liquid and Solid Hydrogen
 TT: Svoistva Zhidkogo i Tverdogo Vodoroda
 ES: Series of Handbooks No. 1
 TS: Spravochnye Obzory, No. 1
 TP: Israel Program for Scientific Translations, Jerusalem, 1971, iii + 123 pages, IPST Cat. No. 5914
 OP: Izdatel'stvo Standartov, Moscow, 1969
 EC: Committee of Standards, Measures and Measuring Instruments of the USSR Council of Ministers
 EC: Government Standards Service
 TC: Komitet Standartov, Mer i Izmeritel'nykh Priborov pri Sovete Ministrov SSSR
 TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
 TR: Nisenbaum, Ch.
 TE: Slutskii, D.
 CL: *8.1
 TN: Available from NTIS as TT 70-50179

Translation

AU: Filyand, M.A., E.I. Semenova
 ET: Handbook of the Rare Elements, Volume I: Trace Elements and Light Elements, Volume II: Refractory Elements, Volume III: Radioactive Elements and Rare Earth Elements
 TP: Boston Technical Publishers, Inc., Cambridge, Mass., Vol. I: 1968, xvii + 265 pages; Vol. II: 1970, xiii + 417 pages; Vol. III: 1970, xv + 303 pages
 TR: Alferieff, M.E.
 CL: *4.1-8.1

Translation

AU: Fomenko, V.A.
 ED: Samsonov, G.V.
 ET: Handbook of Thermionic Properties, Electronic Work Functions and Richardson Constants of Elements and Compounds
 TT: Emissionnye Svoistva Khimicheskikh Elementov i Ikh Soedinenii
 TP: Plenum Press Data Division, New York, 1966, vii + 151 pages
 OP: Naukova Dumka, Kiev, 1964, updated to mid-1965 for the translation
 CL: *8.1

AU: Furmana, M.S. (Chairman)
 AU: Krichkevskogo, I.R., I.F. Golubeva, A.I. Krasil'shchikova, A.M. Alekseeva, V.M. Olevskogo, V.V. Kharlamova, V.S. Khallova, V.A. Klevke, I.I. Gel'perina, A.Ya. Kreisberga
 ET: The Chemistry and Technology of the Products of Organic Synthesis, Physico-Chemical Research, Proceedings of GIAP, Issue VIII
 TT: Khimiya i Tekhnologiya Produktov Organicheskogo Sinteza, Fiziko-Khimicheskie Issledovaniya, Trudy GIAP, Vypusk VIII

OP: Otdel Nauchno-Tekhnicheskoi Informatsii, Moscow, 1971, 232 pages

EC: State Scientific-Research and Planning Institute of the Nitrogen Industry and Products of Organic Synthesis (GIAP)

TC: Gosudarstvennyi Nauchno-Issledovatel'skii i Proektnyi Institut Azotnoi Promyshlennosti i Produktov Organicheskogo Sintexa (GIAP)

CL: *8.3

TN: None

AU: Galkin, N.P., Yu.N. Tumanov, Yu.P. Butylkin

ET: Thermodynamic Properties of Inorganic Fluorides, A Handbook

TT: Termodinamicheskie Svoistva Neorganicheskikh Ftoridov, Spravochnik

OP: Atomizdat, Moscow, 1972, 144 pages

CL: *8.1

TN: None

Translation

AU: Gertsriken, S.D., I.Ya. Dekhtyar

ET: Solid State Diffusion in Metals and Alloys

TT: Diffuziya v Metallakh i Splavakh v Tverdoi Faze

TP: United States Atomic Energy Commission, April 1964, vi + 528 pages, AEC-tr-6313

OP: Gosudarstvennoe Izdatel'stvo Fiziko-Matematicheskoi Literatury, Moscow, 1960, 564 pages

CL: *4.1

TN: Available from NTIS as AEC-tr-6313

ED: Glushko, V.P. (Series Editor)

AU: Alesasov, V.E., A.F. Dregalin, A.P. Tishin, V.A. Khudyakov

ED: Glushko, V.P., V.E. Alesasova (Chief Editors, Vol. I), Vanicheva, A.P., S.D. Grishina, V.A. Il'inskogo, A.F. Dregalina, A.P. Tishina, N.V. Illarionova (Editors)

ET: Thermodynamic and Thermophysical Properties of Combustion Products, A Handbook in Five Parts, Volume I, Methods of Calculation

TT: Termodinamicheskie i Teplofizicheskie Svoistva Produktov Sgoraniya, Spravochnik v Pyati Tomakh, Tom I, Metody Rescheta

OP: Akademiya Nauk, Moscow, 1971, 266 pages

EC: Academy of Science, USSR

EC: State Institute of Scientific and Technical Information

TC: Akademiya Nauk SSSR

TC: Vsesoyuznyi Institut Nauchnoy i Tekhnicheskoi Informatsii

CL: *8.3

TN: Available from NTIS as TT 74-50019

ED: Glushko, V.P. (Editor-in-Chief)

AU: Medvedev, V.A., et al.

ET: Thermal Constants of Substances, A Handbook in Ten Parts

Vol. I: (O, H, D, T, F, Cl, Br, I, At, 3He, He, Ne, Ar, Kr, Xe, Rn)

Vol. II: (S, Se, Te, Po)

Vol. IV: (C, Si, Ge, Sn, Pb)

Part One. Tables of Accepted Values

Part Two. Tables of Literature Citations, Appendices, List of Literature, Index.

Vol. V: (B, Al, Ga, In, Tl)

TT: Termicheskile Konstanty Veshchestv, Sparavochnik v Desyati Vypuskakh

Vypusk I: (O, H, D, T, F, Cl, Br, I, AT, 3He, He, Ne, Ar, Kr, Xe, Rn)

Vypusk II: (S, Se, Te, Po)

Vypusk IV: (C, Si, Ge, Sn, Pb)

Chast' Pervaya. Tablitsy Prinyatykh Znachenii Chast' Vtoraya. Tablitsy Literaturnykh Svylok, Prilozheniya, Spisok Literatury, Ukazatel'

Vypusk V: (B, Al, Ga, In, Tl)

OP: Akademiya Nauk, Moscow, Vol. I: 1965, 145 pages; Vol. II: 1966, 95 pages; Vol. IV: Pt. 1. 1970, 509 pages; Vol. IV: Pt. 2. 1971, 432 pages; Vol. V: 1971, 530 pages

EC: Academy of Science, USSR

EC: All-Union Institute of Scientific and Technical Information

EC: Institute of High Temperature

TC: Akademiya Nauk SSSR

TC: Vsesoyuznyi Institut Nauchnoy i Tekhnicheskoi Informatsii

TC: Institut Vysokikh Temperatur

CL: *8.2

TN: Vol. I, non-tabular material translated by Iva Halow, Chemical Thermodynamics Data Center, NBS; Vols. II-V, None

AU: Golubev, I.F., N.E. Gnezdilov

ET: Viscosity of Gaseous Mixtures

TT: Vyazkost' Gazovykh Smesei

ES: Monograph No. 7

TS: Monografii No. 7

OP: Izdatel'stvo Gosudarstvennogo Komiteta Standartov Sovete Ministrov SSSR, Moscow, 1971, 327 pages

EC: State Committee of Standards of the Soviet Ministry of the USSR

EC: State Office of Standards and Reference Data

TC: Gosudarstvennyi Komitet Standartov Soveta Ministrov SSSR

TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh

CL: *8.2

TN: In process

Translation

AU: Golubev, I.F.

ET: Viscosity of Gases and Gas Mixtures, A Handbook

TT: Vyazkost' Gazov i Gazovykh Smesei (Spravochnoe Rukovodstvo)

TP: Israel Program for Scientific Translations, Jerusalem, 1970, vii + 238 pages, IPST Cat. No. 5680

OP: Gosudarstvennoe Izdatel'stvo Fiziko-Matematicheskoi Literatury, Moscow, 1959

TR: Kondor, R.

TE: Slutskii, D.

CL: *8.2

TN: Available from NTIS as TT 70-50022

AU: Gorchakov, G.I., I.I. Lifanov, L.N. Terekhin

ET: Thermal Expansion Coefficients and Thermal Deformation of Building Materials

TT: Koeffitsienty Temperatur'nogo Rasshirenija i Temperaturnye Deformatsii Stroitel'nykh Materialov

TS: Monograph No. 2

ES: Monografii No. 2
OP: Izdatel'stvo Komiteta Standartov, Mer 1
Izmeritel'nykh Priborov pri Sovete Ministrov
SSSR, Moscow, 1968, 167 pages
EC: Committee of Standards, Measures and Measuring
Instruments of the Soviet Ministry, USSR
EC: State Office of Standards and Reference Data
TC: Komitet Standartov, Mer 1 Izmeritel'nykh
Priborov pri Sovete Ministrov SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnykh Dannyykh
CL: *8.1
TN: None

AU: Gurevich, V.M.
ET: Electroconductivity of Ferroelectrics
TT: Elektroprovodnost' Segnetoelektrikov
ES: Monograph No. 1
TS: Monografii No. 1
OP: Izdatel'stvo Komiteta Standartov, Mer 1
Izmeritel'nykh Priborov pri Sovete Ministrov
SSSR, Moscow, 1969, 383 pages
EC: Committee of Standards, Measures and Measuring
Instruments of the Soviet Ministry, USSR
EC: State Office of Standards and Reference Data
TC: Komitet Standartov, Mer 1 Izmeritel'nykh
Priborov pri Sovete Ministrov SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnykh Dannyykh
CL: *4.1
TN: Available from NTIS as TT 70-50180

Translation

AU: Gurevich, V.M.
ET: Electric Conductivity of Ferroelectrics
TT: Elektroprovodnost' Segnetoelektrikov
ES: Monograph No. 1
TP: Israel Program for Scientific Translations,
Jerusalem, 1971, vi + 362 pages, IPST Cat. No.
5915
OP: Izdatel'stvo Komiteta Standartov, Mer 1
Izmeritel'nykh Priborov pri Sovete Ministrov
SSSR, Moscow, 1969
EC: Committee of Standards, Measures and Measuring
Instruments of the USSR Council of Ministers
EC: Government Standards Service
TC: Komitet Standartov, Mer 1 Izmeritel'nykh
Priborov pri Sovete Ministrov SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnykh
Dannyykh
TR: Kondor, R.
TE: Slutzkin, D.
CL: *4.1
TN: Available from NTIS as TT 70-50180

AU: Gurvich, L.V., et al.
ED: Glushko, V.P. (Chief Editor)
ET: Thermodynamic Properties of Chemical Substances,
A Handbook in Two Volumes,
Volume 1: Calculations of Thermodynamic
Properties,
Volume 2: Tables of Thermodynamic Properties

TT: Termodinamicheskie Svoistva Individual'nykh
Veshchestv, Spravochnik v Dvukh Tomakh,
Tom Pervyi: Vychislenie Termodinamicheskikh
Svoistv,
Tom Vtoroi: Tablitsy Termodinamicheskikh
Svoistv
OP: Izdatel'stvo Akademii Nauk SSSR, Moscow, 1962,
Vol. 1: 1164 pages; Volume 2: 916 pages
EC: Academy of Science, USSR
EC: Institute of Fossil Fuels
EC: State Committee of the Soviet Ministry USSR on
Chemistry
EC: Institute of Applied Chemistry
TC: Akademiya Nauk SSSR
TC: Institut Goryuchikh Iskopaemykh
TC: Gosudarstvennyi Komitet Soveta Ministrov SSSR po
Khimii
TC: Institut Prikladnoi Khimii
CL: *8.1
TN: None

Translation

AU: Ivan'ko, AA.
ED: Samsonov, G.V.
ET: Handbook of Hardness Data
TT: Tverdest' Spravochnik
TP: Israel Program for Scientific Translations,
Jerusalem, 1971, iii + 66 pages, IPST Cat. No.
5912
OP: Naukova Dumka, Kiev, 1968
EC: Academy of Sciences of the Ukrainian SSR
EC: Institute of Materials Sciences
TC: Akademiya Nauk Ukrainskoi SSR
TC: Institut Problem Materialovedeniya
TR: Nisenbaum, Ch.
TE: Slutzkin, D.
CL: *7.2-4.2
TN: Available from NTIS as TT 70-50177

Translation into Russian

AU: Janz, G.J., F.W. Dampier, G.R. Lakshminarayanan,
P.K. Lorenz, R.P.T. Tomkins
ET: Molten Salts: Volume 1, Electrical Conductance,
Density, and Viscosity Data
TT: Spravochnik po Rasplavlennym Solyam,
Tom 1: Elektroprovodnost', Plotnost' i
Vyazkost' Individual'nykh Rasplavlennykh Solei
ES: NSRDS-NBS-15, National Standard Reference Data
System, National Bureau of Standards,
Washington, D.C.
TP: Izdatel'stvo "Khimiya", Leningradskoe Otdelenie,
1971, 168 pages
OP: Superintendent of Documents, U.S. Government
Printing Office, Washington, D.C. 20402,
October 1968, v + 139 pages
TR: Morachevskii, A.G. (Translator and Editor into
Russian)
CL: *8.1
TN: This document is a translation and reworking of
an English Book into Russian.

Translation into Russian

AU: Janz, G.J., Chr. G.M. Dijkhuis (Section 1)
 AU: Janz, G.J., G.R. Lakshminarayanan, R.P.T. Tomkins, J. Wong (Section 2)
 ET: Molten Salts, Volume 2: Section 1: Electrochemistry of Molten Salts: Gibbs Free Energies and Excess Free Energies from Equilibrium-Type Cells; Section 2: Surface Tension Data
 TT: Spravochnik po Rasplavlennym Solyam, Tom 2, Termodinamika i Poverkhnostnoe Natyazhenie Rasplavlennykh Solei
 ES: NSRDS-NBS-28, National Standard Reference Data System, National Bureau of Standards, Washington, D.C.
 TP: Izdatel'stvo "Khimiya", Leningradskoe Otdelenie, Leningrad, 1972, 160 pages
 OP: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, August 1969, v + 111 pages
 TR: Morachevskii, A.G. (Translator and Editor into Russian)
 CL: *8.1
 TN: This document is a translation and reworking of the English document into Russian

AU: Kazavchinskii, Ya.Z., et al.
 ED: Kirillin, V.A.
 ET: Heavy Water, Thermophysical Properties
 TT: Tyazhelaya Voda, Teplofizicheskie svoistva
 OP: Gosudarstvennoe Energeticheskoe Izdatel'stvo, Moscow and Leningrad, 1963, 255 pages + 2 charts
 CL: *8.1
 TN: Available from NTIS as TT 70-50094

Translation

AU: Kazavchinskii, Ya.Z., et al.
 ED: Kirillin, V.A.
 ET: Heavy Water, Thermophysical Properties
 TT: Tyazhelaya Voda, Teplofizicheskie svoistva
 TP: Israel Program for Scientific Translations, Jerusalem, 1971, viii + 263 pages + 2 charts, IPST Cat. No. 5793
 OP: Gosudarstvennoe Energeticheskoe Izdatel'stvo, Moscow and Leningrad, 1963
 CL: *8.1
 TN: Available from NTIS as TT 70-50094

AU: Kletskii, A.V.
 ET: Thermophysical Properties of Freon-22
 TT: Teplofizicheskie svoistva Freona-22
 OP: Izdatel'stvo Komiteta Standartov, Mer i Izmeritel'nykh Priborov pri Sovete Ministrov SSSR, Moscow, 1970, 79 pages + 2 charts
 EC: State Office of Standards and Reference Data
 TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Dannyykh
 CL: *8.1
 TN: Available from NTIS as TT 70-50178

Translation

AU: Kletskii, A.V.
 ET: Thermophysical Properties of Freon-22
 TT: Teplofizicheskie svoistva Freona-22
 TP: Israel Program for Scientific Translations, Jerusalem, 1971, iv + 67 pages + 2 charts, IPST Cat. No. 5913
 OP: Izdatel'stvo Komiteta Standartov, Mer i Izmeritel'nykh Priborov pri Sovete Ministrov SSSR, Moscow, 1970
 EC: Committee of Standards, Measures and Measuring Instruments of the USSR Council of Ministers
 TC: Komitet Standartov, Mer i Izmeritel'nykh Priborov pri Sovete Ministrov SSSR
 TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Dannyykh
 TR: Nisenbaum, Ch.
 TE: Slutskii, D.
 CL: *8.1
 TN: Available from NTIS as TT 70-50178

AU: Kondrat'ev, V.N.
 ET: Rate Constants of Gas Phase Reactions, A Handbook
 TT: Konstanty Skorosti Gazofaznykh Reaktsii, Spravochnik
 OP: Izdatel'stvo "Nauka", Moscow, 1970, 351 pages
 EC: Academy of Science, USSR
 TC: Order of Lenin Institute of Chemical Physics
 TC: Akademiya Nauk SSSR
 TC: Ordena Lenina Institut Khimicheskoi Fiziki
 CL: *5.1
 TN: Available from NTIS as COM-72-10014

Translation

AU: Kondratiev, V.N.
 ET: Rate Constants of Gas Phase Reactions, Reference Book
 TP: Office of Standard Reference Data, National Bureau of Standards, Washington, D.C. 20234
 EC: Academy of Sciences of the USSR
 TC: Order of Lenin Institute of Chemical Physics
 TR: Holtschlag, L.J.
 TE: Fristrom, R.M.
 CL: *5.1
 TN: Available from NTIS as COM-72-10014

Translation

AU: Krasnov, K.S., V.S. Timoshinin, T.G. Danilova, S.V. Khandozhko
 ET: Handbook of Molecular Constants of Inorganic Compounds
 TT: Molekulyarnye Postoyannye Neorganicheskikh Soedinenii, Spravochnik
 TP: Israel Program for Scientific Translations, Jerusalem, 1970, v + 275 pages, IPST Cat. No. 2217
 OP: Izdatel'stvo "Khimiya", Leningrad, 1968
 CL: *4.1-8.1

ED: Kudryavtseva, L.V.
ET: Significant Results of Scientific Research in
1968
TT: Vazneishie Rezul'taty Nauchno-
Issledovatel'skikh Rabot, 1968 goda
OP: Izdatel'stvo "Nauka", Moscow, 1969, 55 pages
EC: High Temperature Institute, Academy of Science,
USSR
TC: Institut Vysokikh Temperatur, Akademii Nauk,
SSSR
CL: *8.0-0.82
TN: None

AU: Lebedev, Ya.S., V.V. Voevodskii, N.N.
Tikhomirova
ET: Atlas of Electron Spin Resonance Spectra, 2.
Theoretically Calculated Multicomponent
Symmetrical Spectra
TP: Consultants Bureau, New York, 1964, 195 pages
EC: Academy of Science, USSR
EC: Institute of Chemical Physics
TC: Akademiya Nauk, SSSR
TC: Institut Khimicheskoi Fiziki
CL: *3.2

ED: Leipunskii, A.I. (Chief Editor)
ET: Bulletin of the Information Center on Nuclear
Data, Fifth Issue
TT: Byulleten' Informatsionnogo Tsentra po Yadernym
Dannym, Vypusk Pyaty
OP: Atomizdat, Moscow, 1968, 355 pages
EC: State Committee on the Utilization of Atomic
Energy, USSR
TC: Gosudarstvennyi Komitet po Ispol'zovaniyu
Atomnoi Energii SSSR
CL: *2.25
TN: None

ED: Leipunskii, A.I. (Chief Editor)
ET: Bulletin of the Information Center on Nuclear
Data, Fourth Issue
TT: Byulleten' Informatsionnogo Tsentra po Yadernym
Dannym, Vypusk Chetverty
OP: Atomizdat, Moscow, 1967, 539 pages
EC: State Committee on the Utilization of Atomic
Energy, USSR
TC: Gosudarstvennyi Komitet po Ispol'zovaniyu
Atomnoi Energii SSSR
CL: *2.25
TN: None

Translation
ED: Leypunskii, A.I. (Chief Editor)
ED: Kazachkovskii, C.D., A.V. Malyshev, M.N.
Nikolaev
AU: Nikolayshvili, Sh.S., et al.
ET: Bulletin of the Information Center on Nuclear
Data, First Issue
TT: Byulleten' Informatsionnogo Tsentra po Yadernym
Dannym, Vypusk Pervyi
TP: Argonne National Laboratory, Argonne, Illinois,
September 1964, x + 117 + 432 pages, ANL-
TRANS-168
OP: Atomizdat, Moscow, 1964, 430 pages
EC: State Committee on the Utilization of Atomic
Energy of the SSSR (GKIAE)
TR: Williep, E.K.
CL: *2.25
TN: Available from NTIS as ANL-TRANS-168

ET: List of Journals, Treatises, and Other
Periodical Publications Used During
Compilation of the Bibliography on
Thermophysical Properties of Liquids and
Gases, Published in the USSR in 1971
TT: Spikok Zhurnal, Trudov i Drigikh Periodicheskikh
Izdaniy, Ispol'zovannykh pri Sostavlenii
Bibliografi Rabot po Teplofizicheskim
Svoistvam Zhidkosti i Gazov
OP: Opublikovannykh v SSSR v 1971 g, 154 loose leaf
pages

Translation
AU: Molchanova, E.K.
ED: Glazunov, S.G.
ET: Phase Diagrams of Titanium Alloys
TT: Atlas Diagramm Sostoyaniya Titanovykh Splavov
TP: Israel Program for Scientific Translations,
Jerusalem, 1965, xxi + 296 pages + 1 chart,
IPST Cat. No. 2162
OP: Izdatel'stvo "Mashinostroenie," Moscow, 1964
TR: Halbreich, A., N. Kaner, M. Statter
CL: *4.1

AU: Naumov, G.B., B.N. Ryzhenko, I.L. Khodakovskii
ED: Tugarinova, A.N.
ET: Handbook on Thermal Properties of Geologic
Substances
TT: Spravochnik Termodinamicheskikh Velichin (dlya
Geologov)
OP: Atomizdat, Moscow, 1971, 240 pages
CL: *8.1
TN: Available from NTIS as TT 73-53051

ED: Novikova, I.I., A.N. Gordova
ET: Proceedings of the All-Union Conference on
Thermophysical Properties of Substances at
High Temperatures, Novosibirsk, 25-30 July
1966.
Volume I: Thermophysical Properties of Solids
at High Temperatures;
Volume II: Thermophysical Properties of
Liquids and Gases at High
Temperatures and of Plasmas
TT: Trudy Vsesoyuznoi Konferentsii po
Teplofizicheskim Svoistvam Veshchestv pri
Vysokikh Temperaturakh, Novosibirsk, 25-30
Iyulya 1966 g.
Tom I: Teplofizicheskie Svoistva Tverdykh Tel
pri Vysokikh Temperaturakh;
Tom II: Teplofizicheskie Svoistva Zhidkosti i
Gazov pri Vysokikh
Temperaturakh i Plazmy
OP: Izdatel'stvo Komiteta Standartov, Mer I
Izmeritel'nykh Priborov pri Sovete Ministrov
SSSR, Moscow, 1969, Vol. I: 496 pages, Vol.
II: 407 pages
EC: Committee on Standards, Measures and Measuring
Instruments of the Soviet Ministry, USSR
EC: State Office of Standards and Reference Data
TC: Komitet Standartov, Mer i Izmeritel'nykh
Priborov pri Sovete Ministrov SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnykh Dannyykh
CL: *8.2
TN: In process

Translation
AU: Rabinovich, I.B.
ET: Influence of Isotopy on the Physicochemical Properties of Liquids
TT: Vliyanie Izotopii na Fiziko-Khimicheskie Svoistva Zhidkostei
TP: Consultants Bureau, New York-London, 1970, xi + 304 pages
OP: Izdatel'stvo "Nauka", Moscow, 1968
EC: N.S. Kurnakov Institute of General and Inorganic Chemistry of the Academy of Sciences of the USSR
EC: N.I. Lobachevskii Gor'kii State University
CL: *8.1
NT: Translated edition corrected by author

TS: Sborniki: "Fizicheskie Konstanty i Svoistva Veshchestv"
OP: Izdatel'stvo Komiteta Standartov, Mer 1 Izmeritel'nykh Priborov pri Sovete Ministrov SSSR, Moscow, 1970, 299 pages
EC: Committee of Standards, Measures and Measuring Instruments of the Soviet Ministry, USSR
TC: Komitet Standartov, Mer 1 Izmeritel'nykh Priborov pri Sovete Ministrov SSSR
EC: State Office of Standards and Reference Data
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
CL: *8.1
TR: Available from NTIS as TT 72-52001

ED: Rabinovich, V.A.
ET: Thermophysical Properties of Substances and Liquids, Number 1
TT: Teplofizicheskie Kharakteristiki Veshchestv, Vypusk 1
ES: Collection: "Physical Constants and Properties of Substances"
TS: Sborniki: "Fizicheskie Konstanty i Svoistva Veshchestv"
OP: Izdatel'stvo Komiteta Standartov, Mer 1 Izmeritel'nykh Priborov pri Sovete Ministrov SSSR, Moscow, 1968, 215 pages
EC: Committee of Standards, Measures and Measuring Instruments of the Soviet Ministry, USSR
EC: State Office of Standards and Reference Data
TC: Komitet Standartov, Mer 1 Izmeritel'nykh Priborov pri Sovete Ministrov SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
CL: *8.1
TN: Available from NTIS as TT 69-55091

ED: Rabinovich, V.A.
ET: Thermophysical Properties of Substances and Materials, Number 3
TT: Teplofizicheskie Svoistva Veshchestv i Materialov, Vypusk 3
ES: Collection: "Physical Constants and Properties of Substances"
TS: Sborniki: "Fizicheskie Konstanty i Svoistva Veshchestv"
OP: Izdatel'stvo Standartov, Moscow, 1971, 206 pages
EC: State Committee of Standards of the Soviet Ministry, USSR
EC: State Office of Standards and Reference Data
TC: Gosudarstvennyi Komitet Standartov Soveta Ministrov, SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
CL: *8.1
TR: Available from NTIS as TT 73-52009 Volume III: Radioactive Elements and Rare Earth Elements Chemistry

Translation
ED: Rabinovich, V.A.
ET: Thermophysical Properties of Gases and Liquids, No.]
TT: Teplofizicheskie Kharakteristiki Veshchestv
ES: Physical Constants and Properties of Substances
TP: Israel Program for Scientific Translations, Jerusalem, 1970, vii + 207 pages, IPST Cat. No. 5554
OP: Izdatel'stvo Komiteta Standartov, Mer 1 Izmeritel'nykh Priborov pri Sovete Ministrov SSSR, Moscow, 1968
EC: Committee of Standards, Measures and Measuring Instruments of the USSR Council of Ministers
EC: Government Standards Service
TC: Komitet Standartov, Mer 1 Izmeritel'nykh Priborov pri Sovete Ministrov SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
TR: Moscona, A.
CL: *8.1
TN: Available from NTIS as TT 69-55091

ED: Rabinovich, V.A. (Editor)
ET: Thermophysical Properties of Substances and Materials, Number 4
TT: Teplofizicheskie Svoistva Veshchestv i Materialov, Vypusk 4
ES: Collection: "Physical Constants and Properties of Substances"
TS: Sborniki: "Fizicheskie Konstanty i Svoistva Veshchestv"
OP: Izdatel'stvo Standartov, Moscow, 1971, 164 pages
EC: State Committee of Standards of the Soviet Ministry
EC: State Office of Standards and Reference Data
TC: Gosudarstvennyi Komitet Standartov Soveta Ministrov
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
CL: *8.1
TR: In process

ED: Rabinovich, V.A.
ET: Thermophysical Properties of Substances and Materials, Number 2
TT: Teplofizicheskie Svoistva Veshchestv i Materialov, Vypusk 2
ES: Collection: "Physical Constants and Properties of Substances"

ED: Rabinovich, V.A.
ET: Thermophysical Properties of Substances and Materials, Number 5
TT: Teplofizicheskie Svoistva Veshchestv i Materialov, Vypusk 5
ES: Collection: "Physical Constants and Properties of Substances"
TS: Sborniki: Fizicheskie Konstanty i Svoistva Veshchestv"
OP: Izdatel'stvo Standartov, Moscow, 1972, 179 pages
EC: State Committee of Standards of the Soviet Ministry
EC: State Office of Standards and Reference Data
TC: Gosudarstvennyi Komitet Standartov Soveta Ministrov
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
CL: *8.1
TR: In process

AU: Rivkin, S.L.
ET: Thermophysical Properties of Water in the
Critical Region, A Handbook
TT: Teplofizicheskie Svoistva Vody v Kriticheskoi
Oblasti, Spravochnik
OP: Izdatel'stvo Standartov, Moscow, 1970, 635 pages
EC: State Committee on Standards of the Soviet
Ministry
EC: Soviet Coordinating Committee on the Properties
of Steam of the Academy of Sciences USSR
EC: State Office of Standards and Reference Data
TC: Gosudarstvennyi Komitet Standartov Soveta
Ministrov
TC: Sovetskii Koordinatsionnyi Komitet po Svoistvam
Vodyanogo Para A.N. SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnikh Danykh
CL: *8.1
TR: In process

AU: Sergeev, O.A.
ET: Metrological Fundamentals of Thermophysical
Measurements
TT: Metrologicheskie Osnovy Teplofizicheskikh
Izmerenii
OP: Izdatel'stvo Standartov, Moscow, 1972, 156 pages
CL: *8.2
TR: None

AU: Shpil'rain, E.E., K.S. Yakimovich
ET: Lithium Hydride, Physico-Chemical and
Thermophysical Properties
TT: Gidrid Litiya, Fiziko-Khimicheskie i
Teplofizicheskie Svoistva
ES: Monograph No. 10
TS: Monografii, No. 10
OP: Izdatel'stvo Standartov, Moscow, 1972, 107 pages
EC: State Committee of Standards of the Soviet
Ministry
EC: State Office of Standards and Reference Data
TC: Gosudarstvennyi Komitet Standartov Soveta
Ministrov
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnykh Danykh
CL: *8.1
TR: None

AU: Shpil'rain, E.E., K.A. Yakimovich, E.E. Tot'skii,
D.L. Timrot, V.A. Pomin
ED: Kirillina, V.A.
ET: Thermophysical Properties of the Alkali Metals
TT: Teplofizicheskie Svoistva Shchelochnykh Metallov
ES: Monograph No. 5
TS: Monografii No. 5
OP: Izdatel'stvo Standartov, Moscow, 1970, 487 pages
EC: Committee of Standards, Measures, and Measuring
Instruments of the Soviet Ministry, USSR
EC: State Office of Standards and Reference Data
TC: Komitet Standartov, Mer i Izmeritel'nykh
Priborov pri Sovete Ministrov, SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i
Spravochnykh Danykh
CL: *8.1
TR: Translation by Wright Patterson AFB. Available
from NTIS as FTD-MT-24-120-70

Translation
AU: Shpil'rain, E.E., K.A. Yakimovich, et al.
ET: Thermophysical Properties of the Alkali Metals
TT: Teplofizicheskiye Svoistva Shchelochnykh
Metallov
TP: Foreign Technology Division, Wright-Patterson
Air Force Base Ohio, 14 Jan. 1971, 698 pages,
FTD-MT-24-120-70
OP: Izd-Vo Standartov, 1970, 488 pages
TE: Potts, Robert A.
CL: *8.1
NT: Available from NTIS as FTD-MT-24-120-70. This
document is a SYSTRAN Machine aided
translation, post-edited for technical
accuracy.

ED: Sirotikina, V.P., R.S. Skibitskaya
ET: Significant Results of Scientific Research in
1971
TT: Vazhneishie Rezul'taty Nauchno-
Issledovatel'skikh Rabot 1971 goda
OP: Izdatel'stvo "Nauka", Moscow, 1972, 80 pages
EC: High Temperature Institute
EC: Academy of Science, USSR
TC: Institut Vysokikh Temperatur
TC: Akademii Nauk SSSR
CL: *8.0-0.8
TR: None

ED: Skibitskaya, R.S.
ET: Significant Results of Scientific Research in
1969
TT: Vazhneishie Rezul'taty Nauchno-
Issledovatel'skikh Rabot 1969 goda
OP: Izdatel'stvo "Nauka", Moscow, 1970, 62 pages
EC: High Temperature Institute
EC: Academy of Science, USSR
TC: Institut Vysokikh Temperatur
TC: Akademii Nauk SSSR
CL: *8.0-0.8
TR: None

AU: Soldaterko, Yu.A., E.K. Dregulyas
ET: "Sound Propagation Velocity and Calculation of
the Calorific Properties of Ethylene and
Propylene in the Supercritical State Region
TT: "Eksperimental'noe Issledovanie Skorosti
Rasprostraneniya Zvuka i Raschet
Kaloricheskikh Svoistv Etilena i Propilena v
Sverkhkriticheskoi Oblasti Sostoyaniya"
OP: Tr. Vses. Nauch.-Tekh. Konf. Termodin. Fazovykh
Perekhodov, Potoka Neobratnykh Protsessov,
"Teplofiz. Svoistva Veshchestv," 3rd 1968
(Published 1970), pages 344-352.
CL: *8.3

Translation
AU: Soldaterko, Yu.A., E.K. Dregulyas
ET: "Experimental Research on Sound Propagation
Velocity and Calculation of Caloric Properties
of Ethylene and Propylene in the Supercritical
State Region"
OP: Tr. Vses. Nauch.-Tekh. Konf. Termodin, Sb. Dokl.
Sekts. "Termodin, Fazovykh Perekhodov, Potoka
Neobratnykh Protsessov" Teplofiz. Svoistva
Veshchestv, 3rd, 1968, pages 344-352 (Pub.
1970)
TP: Publisher not known, 13 pages, 1973
TR: Wagner, Donna M.
CL: *8.3

Translation

AU: Songina, O.A.
 ET: Rare Metals, Third Edition, Revised and Enlarged
 TT: Redkie Metally
 TP: Israel Program for Scientific Translations,
 Jerusalem, Israel, 1970, viii + 442 pages,
 IPST Cat. No. 5654
 OP: Izdatel'stvo "Metallurgiya," Moscow, 1964
 TR: Schmorak, J.
 CL: *4.1-8.1-7.1
 NT: Available from NTIS as TT 70-50021

ED: Sycheva, V.V., A.D. Kozlova, G.A. Spiridonova
 ET: A Report About the Operations of the
 International Program of the IUPAC Commission
 on the Development of Technical Thermodynamic
 Properties Tables of Important Gases, Feasible
 for the Soviet Commission on Thermodynamic
 Tables

TT: Otchet o Rabotakh po Programme Mezhdunarodnoi
 Komissii IYuPak po Razrabotke Tablits
 Termodinamicheskikh Svoistv Tekhnicheskoi
 Vazhnykh Gazov, Vypolnennykh Sovetskoi
 Komissiei po Termodinamicheskim Tablitsam

OP: Moscow, USSR Thermodynamics Tables Commission,
 1972, 373 pages

EC: International Union on Pure and Applied
 Chemistry Commission on Thermodynamics and
 Thermochemistry

EC: Academy of Sciences, USSR
 Scientific Council on the Problem "High
 Temperature Thermophysics"

EC: USSR Thermodynamic Tables Commission

TC: Akademiya Nauk SSSR

TC: Nauchnyi Sovet po Probleme "Vysokotemperaturnaya
 Teplofizika"

TC: Sovetskaya Komissiya po Termodinamicheskim
 Tablitsam

TN: None

Translation

AU: Terekhova, V.F., E.M. Savitskii
 ET: Yttrium, Properties, Phase Diagrams, Industrial
 Applications

TT: Itrii

TP: Israel Program for Scientific Translations,
 Jerusalem, 1970, vii + 167 pages, IPST Cat.
 No. 5414

OP: Izdatel'stvo "Nauka," Moscow, 1967

EC: Academy of Sciences of the USSR

EC: A.A. Baikov Institute of Metallurgy

TC: Akademiya Nauk SSSR

TC: Institut Metallurgii im. A.A. Baikova

TR: Kondor, R.

TE: Slutzkin, D.

CL: *4.1-8.1-7.1

NT: Available from NTIS as TT 69-55016 or AEC-tr-
 6980

AU: Tomanovskaya, V.F., B.E. Kolotova
 ET: Freon, Properties and Uses
 TT: Freony. Svoistva i Primenenie
 OP: Izdatel'stvo "Khimiya," Leningrad Branch, 1970,
 182 pages

CL: *8.1

TR: None

Translation

AU: Toropov, N.A., V.P. Barzakovskii, V.V. Lapin,
 N.N. Kurtseva

ED: Toropov, N.A.

ET: Handbook of Phase Diagrams of Silicate Systems
 Volume I. Binary Systems, Second Revised
 Edition

TT: Diagrammy Sostoyaniya Silikatnykh Sistem,
 Spravochnik

TP: Israel Program for Scientific Translation,
 Jerusalem, 1972, vii + 723 pages, IPST Cat.
 No. 5993

OP: Izdatel'stvo "Nauka," Leningrad, 1969

EC: Academy of Sciences of the USSR

EC: Grebenshchikov Institute of Silicate Chemistry

TC: Akademiya Nauk SSSR

TC: Institut Khimii Silikatov im. I.V.
 Grebenshchikova

TR: Schmorak, J.

CL: *8.1

NT: Available from NTIS as TT 71-50040

Translation

AU: Toropov, N.A., V.P. Barzakovskii, I.A. Bondar',
 Yu.P. Udalov

ED: Toropov, N.A.

ET: Handbook of Phase Diagrams of Silicate Systems,
 Volume II. Metal-Oxygen Compounds in Silicate
 Systems, Second Revised Edition

TT: Diagrammy Sostoyaniya Silikatnykh Sistem,
 Spravochnik

TP: Israel Program for Scientific Translations,
 Jerusalem, 1972, iv + 325 pages, IPST Cat. No.
 5994

OP: Izdatel'stvo "Nauka," Leningrad, 1970

EC: Academy of Sciences of the USSR

EC: Grebenshchikov Institute of Silicate Chemistry

TC: Akademiya Nauk SSSR

TC: Institut Khimii Silikatov im. I.V.
 Grebenshchikova

TR: Schmorak, J., R. Kondor

CL: *8.1

NT: Available from NTIS as TT 71-50041

AU: Tsederberg, N.V., V.N. Popov, N.A. Morozova

ED: Alyab'ev, A.F.

ET: Thermodynamic and Thermophysical Properties of
 Helium

TT: Termodinamicheskie i Teplofizicheskie Svoistva
 Geliya

OP: Atomizdat, Moscow, 1969, 276 pages

CL: *8.1

TN: Available from NTIS as TT 70-50096

Translation

AU: Tsederberg, N.V., V.N. Popov, N.A. Morozova

ED: Alyab'ev, A.F.

ET: Thermodynamic and Thermophysical Properties of
 Helium

TT: Termodinamicheskie i Teplofizicheskie Svoistva
 Geliya

TP: Israel Program for Scientific Translations,
 Jerusalem, 1971, v + 255 pages, IPST Cat. No.
 5795

OP: Atomizdat, Moscow, 1969

TE: Slutzkin, D.

CL: 8.1

NT: Available from NTIS as TT 70-50096

Translation
AU: Vasserman, A.A., V.A. Fabinovich
ET: Thermophysical Properties of Liquid Air and Its Components
TT: Teplofizicheskije Svoistva Zhidkogo Vozdukhia i Ego Komponentov
ES: Monograph No. 3
TP: Israel Program for Scientific Translations, Jerusalem, 1970, viii + 235 pages + 12 charts
OP: Izdatel'stvo Komiteta Standartov, Mer I Izmeritel'nykh Priborov pri Sovete Ministrov SSSR, Moscow, 1968
EC: Committee of Standards, Measures and Measuring Instruments of the USSR Council of Ministers
EC: Government Standards Service
TC: Komitet Standartov, Mer i Izmeritel'nykh Priborov pri Sovete Ministrov
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
TR: Barouch, A.
TE: Greenberg, P.
CL: *8.1
NT: Available from NTIS as TT 69-55092

Translation
AU: Vol, A.E.
ED: Ageev, N.V.
ET: Handbook of Binary Metallic Systems, Structure and Properties, Volume I: Physicochemical Properties of the Elements. Systems of Actinium, Aluminum, Americium, Barium, Beryllium, Boron, and Nitrogen. Volume II: Physicochemical Properties of the Elements. Systems of Bismuth, Dysprosium, Europium, Gadolinium, Gallium Germanium, Hafnium, Holmium, Hydrogen, Iron, Tungsten, and Vanadium.
TT: Stroenie i Svoistva Dvoynykh Metallicheskiikh Sistem
TP: Israel Program for Scientific Translations, Jerusalem, Vol. I: 1966, xii + 635 pages, IPST Cat. No. 1711, Vol. II: 1967, xvii + 870 pages, IPST Cat. No. 1712
OP: Gosudarstvennoe Izdatel'stvo Fiziko-Matematicheskoi Literatury, Moscow, 1959, 1962
EC: Institute of Metallurgy of the Academy of Sciences of USSR
TR: Schmorak, J.
CL: *8.1-4.1
NT: Available from NTIS as TT 66-51149 for Vol. I, TT 66-51150 for Vol. II.

AU: Voskresenskaya, N.K., N.N. Evseeva, S.I. Berul', I.P. Verashchetina
ED: Voskresenskaya, N.K.
ET: Handbook of Fused Systems in Anhydrous Inorganic Salts, Volume I: Binary Systems, Volume II: Ternary Systems, Reciprocal Ternary Systems and Multicomponent Systems
TT: Spravochnik po Plavkosti Sistem iz Bezvodnykh Neorganicheskikh Solei, Tom I: Dvoinye Sistemy, Tom II: Troinye, Troinye Vzaimnye i Volee Slozhnye
OP: Izdatel'stvo Akademii Nauk SSSR, Moscow, Leningrad, 1961, 846 pages, 590 pages
EC: Academy of Sciences of the USSR
EC: N.S. Kurnakova Institute of General and Inorganic Chemistry
TC: Akademiya Nauk SSSR

TC: Institut Obshchei i Neorganicheskoi Khimii im N.S. Kurnakova
CL: *8.1
TR: Available from NTIS as TT 69-55079/1 & 2 or AEC-tr-6983/1 & 2

Translation
AU: Voskresenskaya, N.K., N.N. Evseeva, S.I. Berul', I.P. Verashchetina
ED: Voskresenskaya, N.K.
ET: Handbook of Solid-Liquid Equilibria in Systems of Anhydrous Inorganic Salts Volume I: Binary Systems Volume II: Ternary Systems, Reciprocal Ternary Systems, and Multicomponent Systems
TT: Spravochnik po Plavkosti Sistem iz Bezvodnykh Neorganicheskikh Solei
TP: Israel Program for Scientific Translations, Jerusalem, 1970, Vol. I - iv + 883 pages, IPST Cat. No. 5519; Vol. II - iv + 570 pages, IPST Cat. No. 5520
OP: Izdatel'stvo Akademii Nauk SSSR, Moscow, Leningrad, 1961
EC: Academy of Sciences of the USSR
EC: Kurnakov Institute of General and Inorganic Chemistry
TC: Akademiya Nauk SSSR
TC: Institut Obshchei i Neorganicheskoi Khimii im N.S. Kurnakova
TR: Schmorak, J.
CL: *8.1
NT: Available from NTIS as TT 69-55079/1 & 2 or AEC-tr-6983/1 & 2

Translation
AU: Vukalovich, M.P., V.V. Altunin
ET: Thermophysical Properties of Carbon Dioxide
TT: Teplofizicheski Svoistva Dvukisli Ugleroda
TP: Collet's Ltd., London & Wellingborough, 1968, xiv + 463 pages
OP: Atomizdat, Moscow, 1965
TE: Gaunt, D.S.
CL: *8.2
AU: Vukalovich, M.P., Yu.M. Babikov, D.S. Rasskozev
ET: Thermophysical Properties of Organic Heat Transfer Agents
TT: Teplofizicheskie Svoistva Organicheskikh Teplonositelei
OP: Atomizdat, Moscow, 1970, 239 pages
CL: *8.3
TN: None

AU: Vukalovich, M.P., S.L. Rivdin, A.A. Aleksandrov
ET: Tables of Thermophysical Properties of Water and Steam
TT: Tablitsy Teplofizicheskikh Svoistv Vody i Vodyanogo Para
OP: Izdatel'stvo, Moscow, 1969, 408 pages + 4 charts
EC: Committee of Standards, Measures and Measuring Instruments of the Soviet Ministry, USSR
EC: Soviet Coordinating Committee on the Properties of Steam, A.N. USSR
EC: State Office of Standards and Reference Data
TC: Komitet Standartov, Mer i Izmeritel'nykh Priborov pri Sovete Ministrov SSSR
TC: Sovetskii Koordinatsionnyi Komitet po Svoistvam Vodyanogo Para A.N. SSSR
TC: Gosudarstvennaya Sluzhba Standartnykh i Spravochnykh Danykh
CL: *8.1
TN: None

Translation

AU: Yatsimirskii, K.B., V.P. Vasil'ev
 ED: Chernyaev, I.I.
 ET: Instability Constants of Complex Compounds
 TT: Konstanty Nestoikosti Kompleksnykh Soedinenii
 TP: Consultants Bureau, New York, 1960, ix + 214
 pages
 OP: Academy of Sciences USSR Press, Moscow, 1959
 EC: Academy of Sciences, USSR
 CL: *8.2

AU: Zaidel', A.N., V.K. Prokof'ev, S.M. Raikii,
 V.A. Slavnyi, E.Ya. Shreider
 ET: Tables of Spectral Lines, Third Edition,
 Corrected and Supplemented
 TT: Tablitsy Spektral'nykh Linii, Izdanie Tret'ie
 Ispravlennoe i Dopolnennoe
 OP: Izdatel'stvo "Nauka", Glavnaya Redaktsiya Fiziko-
 Matematicheskoi Literatury, Moscow, 1969, 782
 pages
 CL: *3.2
 TN: None

AU: Yustova, E.N.
 ET: Tables of Basic Colorimetric Data
 TT: Tablitsy Osnovnykh Kolorimetriceskikh Velichin
 OP: Izdatel'stvo Komiteta Standartov, Mer 1
 Izmeritel'nykh Priborov pri Sovete Ministrov
 SSSR, Moscow, 1967, 32 pages + 4 charts
 EC: State Office of Standards and Reference Data
 EC: All-Union Scientific-Research Institute of
 Metrology of D.I. Mendeleeva
 TC: Gosudarstvennaya Sluzhba Standartnykh i
 Spravochnykh Darnykh
 TC: Vsesoyuznyi Nauchno-Issledovatel'skii Institut
 Metrologii im. D.I. Mendeleeva
 CL: *8.1
 TN: None

Translation

AU: Zaidel', A.N., V.K. Prokof'ev, S.M. Raikii
 ET: Tables of Spectrum Lines
 GT: Spektraltabellen
 FT: Tables des Raies Spectrales
 TT: Tablitsy Spektral'nykh Linii
 TP: The Macmillan Company, New York, 1961, xliii +
 550 pages
 OP: Moscow, Leningrad, 1952
 CL: *3.1
 NT: Translation into English, German and French

AU: Zagoruchenko, V.A., Zhuravlev, A.M.
 ET: Thermophysical Properties of Gaseous and Liquid
 Methane
 TT: Teplofizicheskie Svoistva Gazobraznogo i
 Zhidkogo Metana
 ES: Monograph No. 4
 TS: Monografii No. 4
 OP: Izdatel'stvo Komiteta Standartov, Mer 1
 Izmeritel'nykh Priborov pri Sovete Ministrov
 SSSR, Moscow, 1969, 236 pages
 EC: Committee on Standards, Measures and Measuring
 Instruments of the Society Ministry, USSR
 EC: State Office of Standards and Reference Data
 TC: Komitet Standartov, Mer 1 Izmeritel'nykh
 Priborov pri Sovete Ministrov SSSR
 TC: Gosudarstvennaya Sluzhba Standartnykh i
 Spravochnykh Darnykh
 CL: *8.3
 TN: Available from NTIS as TT 70-50097

Translation

AU: Zandberg, E.Ya., N.I. Ionov
 ET: Surface Ionization
 TT: Poverkhnostnaya Ionizatsiya
 TP: Israel Program for Scientific Translation,
 Jerusalem, 1971, xii + 355 pages, IPST Cat.
 No. 5834
 OP: Izdatel'stvo "Nauka" Glavnaya Redktsiya Fiziko-
 Matematicheskoi Literatury, Moscow, 1969
 TR: Harnik, E.
 TE: Berry, E.
 CL: *6.2
 NT: Available from NTIS as TT 70-50148

Translation

AU: Zagoruchenko, V.A., Zhuravlev, A.M.
 ET: Thermophysical Properties of Gaseous and Liquid
 Methane
 TT: Teplofizicheskie Svoistva Gazobraznogo i
 Zhidkogo Metana
 ES: Monograph No. 4
 TP: Israel Program for Scientific Translations,
 Jerusalem, 1970, viii + 243 pages, IPST Cat.
 No. 5796
 OP: Izdatel'stvo Komitet Standartov, Mer 1
 Izmeritel'nykh Priborov pri Sovete Ministrov
 SSSR, Moscow, 1969
 EC: Committee of Standards, Measures and Measuring
 Instruments of the USSR Council of Ministers
 EC: Government Standards Service
 TC: Komitet Standartov, Mer 1 Izmeritel'nykh
 Priborov pri Sovete Ministrov SSSR
 TC: Gosudarstvennaya Sluzhba Standartnykh i
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