

NEW BOOKS ON PHYSICS

Aleksandrov, S. G. and Fedorov, R. E., Советские спутники и космическая ракета (Soviet Satellites and the Cosmic Rocket) M., U.S.S.R. Acad. Sci., 1959, 232 pp. illustr. (Scientific-popular series). Bibliography (18 titles), 10,000 copies, 3.50 rub.

Contents: Foreword. Chapters: 1. General Information on Artificial Satellites. 2. Scientific Research with Artificial Earth Satellites. 3. The First Soviet Artificial Earth Satellites. 4. The Soviet Cosmic Rocket. Conclusion.

Атомная энергия в авиации и ракетной технике (Atomic Energy in Aviation and Rocket Technology). Collection of articles. M., Voenizdat, 1951, 500 pp. illustr. (scientific-popular library). Editor and compiler, Eng. Col. P. T. Astashenkov, bibliography pp. 498-499, 8.60 rub.

Contents. From the publisher. I. Kurchatov. Accomplishments of Science and Technology for the Good of Humanity. 1. The Nuclear Weapon and its Carrier. II. Action of Nuclear Weapons and Atomic Counter Defense in Aviation. III. Problems of Utilization of Atomic Energy in Aviation, Rockets, and Other Types of Technology. IV. The Armed Forces of the Soviet Union — Reliable Guard of the World's Labor.

Afrikyan, L. M., Работы по теоретической физике (Papers on Theoretical Physics). Edited by V. L. Ginzburg, corresp. member U.S.S.R. Acad. Sci. and by candidate of physical-mathematical sciences, G. M. Garibyan. Erevan, Press of the Academy of Sciences of the Armenian S.S.R., 1959, 76 pp. (Acad. Sci. Arm. S.S.R., Institute of Physics), bibliography at the end of each chapter, 600 copies, 2.50 rub.

Contents: Levon Melkonovich Afrikyan. 1. On the Theory of Creation and Annihilation of Antiprotons. 2. On the Theory of Production of Antiprotons. 3. On the Theory of Production and Annihilation of Antiprotons. 4. Selection Rules in the Annihilation of Antiprotons by Pions. 5. Level Shift of μ -mesic Hydrogen and Structure of the Proton. 6. Production of μ -meson Pairs by Gamma Quanta on Atomic Nuclei. 7. On the Theory of Production of Electron-Positron Pairs in Collisions between Slow Muons and Atomic Nuclei. 8. On Certain Electromagnetic Effects with Participation of Strongly-Interacting Particles. 9. Multiple Pair Production in Quantum Electrodynamics. 10. On the Theory of Production of Electron-Positron Pairs.

Brickman, G., Spinor Invariants in Atomic Physics. Translated from the English by O. A.

Vladimirov, edited by V. B. Berestetskiĭ M., Foreign Literature Press, 1959.

Varma, A. R., Growth of Crystals and Dislocations. Translated from the English by Z. I. Zhmurova, edited by N. N. Sheftal'. M., Foreign Literature Press, 1958, 216 pp. illustr. Bibliography pp. 173-180, 192-193, 210-211.

Vainberg, V. B., Dul'neva, N. M., and Yakovenko, V. L., Поворот изображения в системах широкого обзора при неподвижном наблюдателе (Image Inversion in Wide-Screen Systems with the Observer Stationary). L. ONTI GOI (United Scient.-Tech. Publ. Houses, State Optical Inst.) 1959(1), 28 pp. illustr. (Transactions of the State Order of Lenin S. I. Vavilov Optical Institute, Vol. 27, No. 153), 750 copies, gratis.

Voloshin, I. F., Kasperovich, A. S., and Shashkov, A. G. Советские спутники и космическая ракета (Semiconductor Thermistors). Minsk, Acad. Sci., Belorussian S.S.R., 1959, 197 pp. illustr. (Power Institute Acad. Sci., Belorussian S.S.R.). Bibliography (53 titles), 4,000 copies, 8.50 rub.

Contents: Foreword. Introduction. Chapters: 1. Principal Concepts of Thermistor Physics. 2. Temperature Characteristic of Thermistors. 3. Static Volt-ampere Characteristic of Thermistors. 4. Elementary dc Circuits with Thermistors. 5. Dynamic Properties of Thermistor Circuits. 6. Examples of Thermistor Applications.

Hertz, H. R., Principles of Mechanics, Expounded from a New Point of View. Publication prepared by A. T. Grigor'yan and L. S. Polak, edited by I. I. Artobolevskii. Translated from the German by V. F. Kotov and A. V. Sulimo-Samuilo. M., U.S.S.R. Acad. Sci., 1959, 386 pp. illustr. (Institute of History of Science and Technology. Classics of Science).

In the appendix: H. Helmholtz — H. Hertz. A. Poincaré — Hertz's Ideas in Mechanics. A. T. Grigor'yan and L. S. Polak — Hertz's Principal Ideas of Mechanics. Bibliography, 374-382 ("Papers by H. Hertz" and "On the Life and Activity of H. Hertz"). 2500 copies, 15 rub.

Greber, G., Erk, S., and Grigull, U., Principles of Heat Exchange. Translation from the German edited by Prof. A. A. Gukhman. M., Foreign Literature Press, 1958.

Goody, R. M., Physics of the Stratosphere. Translated from the English by S. F. Shushurin, edited by E. G. Shvidkovskii. L. Gidrometeorizdat, 1958, 172 pp, 4,000 copies, 9.35 rub.

Диэлектрики и их применение (Dielectrics and Their Application) Translated from the English, edited by D. M. Kazarnovskii. M.-L. Gosenergoizdat, 1959, 336 pp. illustr. Original edited by A. R. Hippel.

Zhabotinskiĭ, M. E. and Radunskaya, I. L., Радио наших дней (Radio of Our Days), М., U.S.S.R. Acad. Sci., 1959, 263 pp. illustr. (Scientific-popular Series), 50,000 copies, 4.90 rub.

Contents: Chapters: 1. Introduction. 2. Television. 3. Radar. 4. Radio Astronomy. 5. Radio Spectroscopy. 6. Electronic Mathematical Machines. 7. Radio in Industry and in the National Economy. 8. Semiconductor Devices. 9. Radio and the Conquest of Space.

Zakutinskiĭ, D. I., Вопросы токсикологии радиоактивных веществ (Problems in Toxicology of Radioactive Substances). М., Medgiz, 1959, 152 pp. illustr. Bibliography 148-151. 6,000 copies, 6.00 rub.

Zubov, V. G. and Shal'nov, V. P., Задачи по физике (Problems in Physics) (for self-study). Fifth edition. М., Fizmatgiz, 1959, 320 pp. illustr., 100,000 copies, 6.05 rub.

Contents: Foreword. Part I. Chapters: 1. Mechanics. 2. Heat and Molecular Physics. 3. Electricity. 4. Optics. Part II. Answers and Solutions. 1. Mechanics. 2. Heat and Molecular Physics. 3. Electricity. 4. Optics.

Ingram D., Spectroscopy at High and Microwave Frequencies. Translated from the English by Yu. D. Tsvetkov and Yu. N. Molin, edited by L. A. Blyumenfel'd. М., Foreign Literature Press, 1959.

Институт истории естествознания и техники. Москва. Труды. (Institute of the History of Natural Sciences and Technology, Transactions). М., U.S.S.R. Acad. Sci., Vol. 22. History of the Physical-Mathematical Sciences, 1959, 402 pp. illustr., 1800 copies, 17.40 rub.

Contents: I. On the Occasion of Max Planck's Hundredth Birthday (1858-1958). A. T. Grigor'yan — The Founder of Quantum Theory. L. S. Polak and Yu. I. Solov'ev — Max Planck as a Physical Chemist. II. On the 30th Anniversary of Relativistic Quantum Mechanics. P. A. M. Dirac — The Present Status of Relativistic Theory of the Electron. P. A. M. Dirac — Quantum Theory of the Electron (I). P. A. M. Dirac — Quantum Theory of the Electron (II). III. Articles and Communications. B. G. Kuznetsov — Paths in the Development of Quantum-Relativistic Logic. T. P. Kravets — 276 Remarks by M. V. Lomonosov on Physics and Corpuscular Philosophy. O. A. Mel'nikov — Joseph Fraunhofer (1787-1826). O. A. Lezhneva — From the History of the Discovery of Electromagnetism and Electromagnetic Induction. V. V. Kogen-Dalin — Evolution of Mathematical Expression of the Law of Electromagnetic Induction. V. M. Konovalov and G. G. Kordun — Thermodynamic Research. M. F. Okatova and P. I. Zyukov — On the Early Investiga-

tion of B. B. Gol'tsyn in Molecular Physics. N. Ya. Tsyganova — On the Work by Professor I. D. Sokolov on Analytical Mechanics. E. N. Rakchev — Outline of the Development of the Theory of Elasticity in Russia During the Second Half of the 19th and the Beginning of the 20th Century (1861-1917). G. P. Matvievskaia — Unpublished Manuscripts of L. Euler on Diophantine Analysis. N. V. Aleksandrova — Certain Problems in the History of Variational Calculus in the 18th and 19th Centuries. F. A. Medvedev — On the Development of Set Theory. S. I. Ermeeva — Evangelista Torricelli (on the 350th anniversary of his birth). IV. Publications and Materials by T. V. Lobanov. Appeal by Academician V. Ya. Bunyakovskii concerning the Works of I. F. Voznyakovskii. Pierre de Maricour — Message on the Magnet (1269), (Introductory Article, Translation, and Remarks by V. P. Zubov). Letters from A. A. Fridman to V. B. Gol'tsyn and V. A. Steklov (Publications and Introductory Article by L. S. Polak, Remarks by A. F. Gavrilov). A. F. Gavrilov — Recollections of Fridman.

Искусственные спутники Земли (Artificial Earth Satellites). Collection of Articles. Editor in Chief L. V. Kurnosova. М., U.S.S.R. Acad. Sci., 1958, No. 2. Results of Scientific Investigations Obtained with the Aid of the Third Artificial Earth Satellites. 1958, 84 pp. illustr.; Bibliography at the end of each article. 3500 copies, 3.40 rub.

Kalashnikov, A. M. and Stepuk, Ya. V., Основы радиотехники и радиолокации (Principles of Radio Engineering and Radar). М., Voenizdat, 1959. Book 1. Oscillating Systems. 1959, 355 pp. illustr., 7.60 rub.

Contents: Introduction. Chapters: 1. Oscillating Circuits. 2. Transmission Line for Electromagnetic Energy. 3. Waveguides and Cavity Resonators. 4. Antennas.

Kalashnikov, A. M. and Slutskii, V. Z., Основы радиотехники и радиолокации (Principles of Radio Engineering and Radar). М., Oborongiz, 1959, Book 2. Electronic Vacuum Devices and Pulse Techniques, 1959, 376 pp. illustr., 8.35 rub.

Contents: Chapter V. Electronic Vacuum Tubes.

Kogan, B. Ya., Электронные моделирующие устройства и их применение для исследования систем автоматического регулирования (Electronic Simulators and Their Use in the Research of Automatic Control Systems). М., Fizmatgiz, 1959, 482 pp. illustr., 10,000 copies, 16.40 rub.

Contents: Foreword. Introduction. Section I. Electronic Simulating Devices and Their Elements. Chapters: 1. Methods of Mathematical Simulation. 2. Linear Solution Elements. 3. Errors in Linear Solution Elements. 4. dc Solution Amplifier Cir-

cuits. 5. Diode Functional Converters. 6. Principles of the Theory of Diode Functional Converters. 7. Functional Converters Employing Cathode Ray Tubes. 8. Multiplying and Dividing Devices. 9. Principles of Construction of dc Electronic Simulators. Section II. Use of Electronic Models for the Investigation of Automatic Control Systems. 10. Procedures for Formulating and Solving Problems. 11. Simulation of Linearized Systems of Automatic Control. 12. Simulation of Nonlinear Automatic Control Systems. Appendix I. Appendix II. Literature. Subject Index.

Kol'man, É. Ya., Ленин и новейшая физика (Lenin and Modern Physics). M., Gospolitizdat, 1959, 152 pp. illustr. (U.S.S.R. Acad. Sci., Institute of History of Natural Sciences and Technology), 30,000 copies, 1.80 rub.

Contents: 1. The Crisis in Physics at the Turn of the Century. 2. The Dialectic Spirit of the New Physics and the "Physical" Idealism. 3. Space and Time. 4. The Regularity of the Laws of Nature. 5. Modern Data on the Structure of Matter. 6. Attempts at Constructing a Single Physical Theory of Matter. 7. Latest Difficulties in "Physical" Idealism. 8. "The Physical" Idealism at the Service of Revisionism of our Day. Conclusion.

Komarovskii, A. N., Строительные материалы для защиты от излучений ядерных реакторов и ускорителей (Structural Materials for Shielding Against Radiation from Nuclear Reactors and Accelerators). M., Atomizdat, 1958, 123 pp. 6,000 copies, 5.30 rub.

Contents: General Problems. Shielding Properties of Structural Materials. Technology of Special Heavy and Hydrated Concrete. Features of the Construction of Shields Made of Special Heavy Concrete. Applications. Literature.

Crawford, A. E., Ultrasonic Engineering. Translated from the English, edited by A. S. Matveev. M., Foreign Literature Press, 1958.

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Contents: Foreword. Chapters: 1. Principal Properties of Atomic Nuclei. 2. Elementary Theory of the Deuteron. 3. Theory of Elastic Collisions. 4. Nuclear Forces. 5. Alpha Decay. 6. Beta Decay. 7. Gamma Radiation. 8. Inelastic Collisions, Nuclear Reactions. Appendices. Literature. Subject Index.

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V. I. Veksler, and Candidate of Physical-Mathematical Sciences N. A. Vlasov. Vol. II. M., Atomizdat, 1959 (United Nations).

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Contents: Part I. Physics of Plasma and Problem of Controllable Thermonuclear Reactions. Part II. Nuclear Physics.

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Nikitin, P. A., Dluzhnevskii, G. I., D'yakov, G. P., and Sadikov, B. A., Лекции по курсу физики (Physics Lecture Course). Part II. M., 1959 (Ministry of Higher Education, U.S.S.R., All-Union Extension Power Institute). Part II. 1959, 313 pp. illustr. 6,000 copies, 6.90 rub.

Parkhomovskii, G. D., Конспект лекций по физике (Abstract of Physics Lecture Notes). Khar'kov, 1959 (Ministry of Higher Education Ukrainian S.S.R., V. I. Lenin Khar'kov Polytechnic Institute. Faculty of General and Experimental Physics). Vol. 1. Mechanics and Molecular Physics. 1959, 216 pp. illustr., 3,000 copies, 7.40 rub.

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Петр Петрович Лазарев (Peter Petrovich Lazarev) (1878-1942). Introductory Article by M. P. Volarovich. Bibliography Compiled by N. M. Nesterova. M., U.S.S.R. Acad. Sci., 1958, 127 pp. illustr. [Acad. Sci. U.S.S.R., Materials on the Bibliography of U.S.S.R. Scientists (Physics Series, No. 10)]. 1700 copies, 2.25 rub.

Линейные ускорители (Linear Accelerators), Collection of Articles. Edited by Doctor of Technical Sciences, Professor G. A. Tyagunov, M., 1959, 95 pp. illustr. (Ministry of Higher Education, U.S.S.R., Moscow Engineering Physics Institute), Bibliography at the end of each article, 1,000 copies, 4.20 rub.

Contents: Foreword. O. A. Val'dner — Linear Electronic Accelerators of the Moscow Engineering Physics Institute. A. V. Shal'nov, E. G. Pyatnov, and A. A. Glazkov — Principles of Engineering Design of a Linear Traveling-Wave Electron Accelerator. A. A. Glazkov — Amplitude of the Principal TM Wave in a Corrugated Waveguide. N. P. Sobenin — Measurement of the Alternating Phase Velocity in the Wave Guide of an Electronic Linear Accelerator by the Method of Reflecting Pistons. N. P. Sobenin — Determination of the Diameter of the Wave Guide of an Electronic Linear Accelerator. A. V. Shal'nov and S. P. Lomnev — Preliminary Bunching of the Electrons in a Linear Accelerator with the Aid of a Klystron Resonator. A. A. Glazkov and E. G. Pyatnov — On the Problem of Improving the Energy Spectrum of the Electrons at the Output of a Linear Accelerator by the Method of Phase Reversal. A. G. Tragov — Phase Shifter with Two Dielectric Plates.

Perov, V. P., Статистический синтез импульсных систем (Statistical Synthesis of Pulsed Systems). M., Soviet Radio Press, 1959, 454 pp. Bibliography, pp. 448-450. 13.50 rub.

Contents: Foreword. Chapters: 1. Characteristics of Pulsed Systems. 2. Errors in Pulsed Systems. 3. Determination of the Characteristics of a Pulsed System that Insures a Minimum Reproduction Error at a Specified Dynamic Accuracy at a Given Transient Time. 4. Determination of the Characteristics of a Pulse System, Insuring a Minimum Total Squared Reproduction Error at a Given Transient Time. 5. The Realization of Optimum Pulse Systems to Meet Specified Characteristics. 6. Synthesis of Pulse Systems with Variable Parameters with an Equivalent Continuous Part. 7. Synthesis of Pulse Systems with Variable Period of Alternation of Pulses. 8. Frequency Methods of Synthesis of Continuous-Operation Systems, Obtained in Analogy with Methods of Synthesis of Pulse Systems. Literature.

Pogosyan, Kh. P., Общая циркуляция атмосферы (General Circulation of the Atmosphere). L., Gidrometeoizdat, 1959, 260 pp. illustr., bibliography, 246-252, 2,000 copies, 10.45 rub.

Contents: Introduction. Chapters: 1. Thermal Inhomogeneity of the Atmosphere. 2. Influence of the Continents and Oceans on the Formation of the Thermal Field of the Troposphere in Various Seasons. 3. Thermobaric Field of the Troposphere and Cyclonic Activity. 4. Jet-like Flow in the Atmosphere. 5. Features of Atmospheric Circulation in the Arctic and Antarctic. 6. Trade Wind and Monsoon Circulation. Literature. Appendices.

Posey, J. L. and Bricewell, R. N., Radio Astronomy. Translated from the English, edited by I. S. Shklovskii, M., Foreign Literature Press, 1958.

Полупроводниковые преобразователи энергии излучений (Semiconductor Radiant-Energy Converters). Collection of Articles. Edited by Professor Yu. P. Maslakovets and V. K. Subashiev. M., Foreign Literature Press, 1959, 407 pp. illustr., bibliography at the end of each article.

Contents: Foreword: Chapters: 1. Physical Properties of Semiconductor Materials Used for the Conversion of Radiant Energy. 2. Photoelectric Converters of Radiant Energy. 3. Thermoelectric Converters of Radiant Energy. 4. Semiconductor Converters of Radiant Energy.

Полупроводниковые термосопротивления (Semiconductor Thermistors). Collection of Articles Edited by Professor Doctor of Technical Sciences B. S. Sotskov. M.-L., Gosenergoizdat, 231 pp. illustr. Bibliography at the end of each article, 13,000 copies, 8.00 rub.

Contents: Foreword. Section 1. Technology of Manufacture and Methods of Determining the Parameters and Characteristics of Semiconductor Thermistors. Section II. Methods of Design of Circuits with Semiconductor Thermistors and Their Applications.

Рост кристаллов (Crystal Growth). Collection of Articles. Editors in Chief Acad. A. V. Shubnikov and N. N. Sheftal'. M., U.S.S.R. Acad. Sci., 1959 (Acad. Sci. U.S.S.R., Institute of Crystallography), Vol. 2, 1959, 239 pp. illustr. Bibliography at the end of each article, 2,000 copies, 15.00 rub.

Contents: Foreword. I. Theoretical and Experimental Investigations. II. The Growing of Single Crystals (Apparatus, Procedure, Auxiliary Operations). III. Survey and Discussion Articles.

Sachkov, Yu., О материалистическом истолковании квантовой механики (On the Materialistic Interpretation of Quantum Mechanics). M. Gospolitizdat, 1959, 150 pp. (U.S.S.R. Acad. Sci. Institute of Philosophy), 7,000 copies, 2.75 rub.

Contents: Introduction. Chapters: 1. General Principles of Interpretation of Physical Theories. 2. Interpretation of Specific Features of Quantum Mechanics. 3. Treatment of Certain Principal Concepts and Representations of Quantum Mechanics. 4. Dynamic Theory of an Individual Quantum Process. Conclusion.

Справочник по дозиметрическим, радиометрическим и электронно-физическим приборам, счетчикам, сцинтилляторам и фотоумножителям (Handbook of Dosimetric, Radiometric, and Electron-Physics Instruments, Counters, Scintillators, and Photo-

multipliers). M., Atomizdat, 1959, 253 pp. illustr. (Main Administration on the Utilization of Atomic Energy, Council of Ministry, U.S.S.R.). Compiled by D. D. Uspenskiĭ, P. S. Savitskiĭ, V. I. Sinitskiĭ, and A. S. Shtan', 25,000 copies, 6.30 rub.

Справочник по электротехническим материалам (Handbook on Electrotechnical Materials). In two volumes. Editor in Chief K. A. Andrianov. M.-L. Gosenergoizdat, 1958. Vol. I. Electric Insulating Materials. Part 1. Properties and Materials. Edited by Yu. V. Kornitskiĭ and B. M. Tareev. 1958, 460 pp. illustr. Bibliography at the end of each chapter, 30,000 copies, 28.00 rub.

Information Theory and Its Applications. Collection of Translations, Edited by A. A. Kharkevich. M., Fizmatgiz, 1959.

Shugaĭlin, A. V., Философские вопросы учения современной физики о строении и свойствах материи (Philosophical Problems of Present Physical Theories Concerning the Construction and Properties of Material). Kiev, Ukraine S.S.R. Acad. Sci., 1959, 375 pp. (Acad. Sci. of the Ukrainian S.S.R., Institute of Philosophy), 3,000 copies. 14.10 rub.

Contents: Introduction. Chapters: 1. Atomistics and the Problem of the Field in Classical Physics. 2. Philosophical Problems in the Construction of Complex Particles in Modern Physics. 3. Philosophical Questions in the Problem of Elementary Particles of Matter in Quantized Fields in Modern Physics. 4. Dialectic Materialism and the Problem of Mass and Energy in Modern Physics.

Физическая газодинамика (Physical Gas Dynamics). Collection of Articles, edited by A. S. Predvoditelev. M., U.S.S.R. Acad. Sci., 1959, 167 pp. illustr. (U.S.S.R. Acad. Sci., G. M. Krzhizhanovskii Power Institute). Bibliography at the end of each article, 3,000 copies, 11.60 rub.

Khaĭkin, S. Ė., Электромагнитные колебания и волны (Electromagnetic Oscillations and Waves). M.-L., Gosenergoizdat, 1956, 256 pp, illustr. (Mass Radio Library, No. 325), 40,000 copies, 6.85 rub.

Contents: Foreword. Introduction. Chapters: 1. Propagation of Electromagnetic Energy. 2. Capacitance and Inductance. 3. Electric Oscillations. 4. Transmission and Reception of Radio Waves.

Kharinskiĭ, A. L., Основы конструирования элементов радиоаппаратуры (Principles of Construction of Radio Components). M.-L., Gosenergoizdat, 1959, 547 pp. illustr. Bibliography on pp. 546-547. 23,000 copies, 16.75 rub.

Contents: Introduction. Part I. Properties of Construction and Methods of Construction.

Tsiolkovskiĭ, K. Ė., Собрание сочинений (Collected Works). M., U.S.S.R. Acad. Sci., 1959 (Acad. Sci., U.S.S.R.). Vol. 3, Dirigibles. 1959, 316 pp. illustr., 3,000 copies, 16.30 rub.

Tsyppkin, Ya. Z., Теория импульсных систем (Theory of Pulse Systems) M., Fizmatgiz, 1959, 724 pp. illustr. Bibliography 701-719, 15,000 copies, 23.25 rub.

Contents: Foreword. Introduction. Chapters: 1. Pulse Systems and Their Application. 2. Principles of the Discrete Laplace Transform and Difference Equations. 3. Principles of the Theory of Open Pulse Systems. 4. Investigation and Design of Open Pulse Systems. 5. Principles of the Theory of Closed Pulse Systems. 6. Investigation and Design of Closed Pulse Systems. Literature. Subject Index.

Экспериментальная техника и методы исследований при высоких температурах (Experimental Techniques and Methods of Research at High Temperatures). Proceedings of the Conference on Experimental Techniques and Methods in High Temperature Research (26-30, June 1956). Editor in Chief A. M. Samarin, M., U.S.S.R. Acad. Sci., 1959, 790 pp. illustr. (Acad. Sci. U.S.S.R. Institute of Metallurgy, Commission on Physical-Chemical Principles of Steel Production), Bibliography at the end of each article, 2200 copies, 44.55 rub.

Contents: I. Determination of Thermodynamic Activity and Methods of Investigation of Kinetics of High Temperature Processes. II. Investigation of the Diagrams of State. III. Physical Properties of Liquid Metals and Slags. IV. New Methods of Analysis and Production of Pure Metals. V. Pyrometry. VI. General Problems.

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Ashby, W. R., Introduction to Cybernetics. Translated from the English by D. G. Lakhuti, edited by V. A. Uspenskiĭ. Foreword by A. N. Kolmogorov. M., Foreign Literature Press, 1959.

— T. O. Vreden-Kobetskaya
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