

Calling for more serious criticism is a somewhat superficial treatment of several important problems. Thus, the fundamental concept of isotopic spin is applied in this book only to elementary particles. The reader remains in the dark

Academy of Sciences, Ukrainian S. S. R.,
Сессия по мирному использованию атомной энергии
(Session on Peaceful Use of Atomic Energy), 1958.

Transactions of the session of the Ukrainian S.S.R. Academy of Sciences on peaceful use of atomic energy (Editor in Chief, M. V. Pasechnik). Kiev, Ukr. S.S.R. Acad. Sci. Press, 1958, 189 pp., illustr. (Academy of Sciences, Ukrainian S.S.R., Division of Physical-Mathematical Sciences). Bibliography at the end of each article. 2500 copies, 9.10 rub.

Sections: 1. Accelerators. 2. Interaction Between Charged Particles or Neutrons and Nuclei. 3. Use of Tagged Atoms in Physical Research. 4. Experimental Procedures.

Andronov, A. A., Vitt, A. A., and Khaikin, S. É. Теория колебаний (Theory of Oscillations). Second edition, revised and enlarged by N. A. Zheleztsova. M., Fizmatgiz, 1959, 915 pp. illustr. Bibliography pp. 905-912. 20,000 copies, 31.50 rub.

Contents: Foreword to Second Edition. Foreword to First Edition. Introduction. Chapters: 1. Linear Systems. 2. Conservative Nonlinear Systems. 3. Nonconservative Systems. 4. Dynamic First-Order Systems. 5. Dynamic Second-Order Systems. 6. Principles of Qualitative Theory of Second-Order Differential Equations. 7. Systems with Cylindrical Phase surfaces. 8. Method of Point Transformations and Piecewise Linear Systems. 9. Nearly-Harmonic Nonlinear Systems. 10. Intermittent Oscillations. Appendices I, II, III. Literature. Subject Index.

Атомная энергия (Atomic Energy). A Concise Encyclopedia. Editor in chief V. S. Emel'yanov. M., "Great Soviet Encyclopedia" Publishing House, 1958, 612 pp. illustr. Insert: Table of Isotopes (Based on data published in early 1958), 12 pp. Bibliography pp. 555-597, compiled by V. M. Pimenova. 50,000 copies, 24 rub.

Contents: Article Index. Nuclear Physics and Certain Problems of Theoretical Physics. General Problems of Chemistry. Chemical Elements and Isotopes. Radiochemistry. Radiation Chemistry. Nuclear Geology. Reactor Construction and Nuclear Power. Construction Materials for Reactors and their Properties. Electrical Measuring, Control, and Regulation Instruments and Devices. Accelerators. Dosimeters. Particle Counters. Ionization Chambers. Spectrometers. Radioactive Measuring Instruments. Measurement Devices and Methods. Radiobiology. Biophysics. Use of Radioactivity in Agriculture. Use of Radioactivity in Medicine. Protection against Radiation. Nuclear Weapons and Antinuclear Defense. International Agreements and Organizations.

Bateman, H. The Mathematical Analysis of Electrical and Optical Wave Motion on the Basis of Maxwell's Equations. Translated from the Eng-

lish by S. N. Bryukhatov. Edited by N. S. Koshlyakov. M., Fizmatgiz 1958, (Dover, New York, 1955).

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Collection of papers delivered to the First Scientific-Technical Conference on the Use of Methods of Molecular Spectral Analysis (Edited by Academician B. I. Stepanov). Minsk, 1958, 140 pp. illustr. (Institute of Physics and Mathematics, Academy of Sciences, Belorussian S.S.R. Republic Office for Scientific-technical Propaganda of the Council of National Economy of the Belorussian S.S.R.). Bibliography at the end of each article. 1000 copies, gratis.

Belyaev, N. M., Сопrotивление материалов (Resistance of Materials), 11th ed. M., Fizmatgiz, 1959, 856 pp. 75,000 copies, 19.20 rub.

Bernoulli, D. Hydrodynamics or a Note on the Forces and the Motions of Liquids. Translated from the Latin by V. S. Gokhman. Comments by the editor, Acad. A. I. Nekrasov, and by Prof. K. K. Baumgart. Article by Acad. V. I. Smirnov, Leningrad, U.S.S.R. Acad. Sci. Press, 1959, 551 pp. illustr. (Academy of Sciences U.S.S.R. Classics of Science). 2500 copies, 23.75 rub.

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Busch, H. and Winkler, U. Determination of the Characteristic Parameters of Semiconductors by Means of Electrical, Optical, and Magnetic Measurements. Translated from the German by I. M. Saraeva and Yu. V. Shmartsev. Edited by N. A. Penin. M., Foreign Literature Press, 1959.

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Fizmatgiz, 1959. 220 pp. illustr. (Physical-Mathematical Library for Engineers) Bibliography pp. 219-220 (33 titles). Second printing, 10,000 copies, 7.20 rub.

Contents: Foreword. Chapters: 1. Structural Diagram of Cathode-Ray Oscillograph. 2. The Cathode-Ray Tube. 3. Sweep Systems. 4. Amplifiers. 5. Auxiliary Elements of the Cathode-Ray Oscillograph. 6. Use of Cathode-Ray Oscillograph. Appendix 1. Example of the Design of the Principal Units of the Cathode-Ray Oscillograph. 2. Brief Technical Specifications of Certain Types of Soviet Oscillographs. 3. Principal Parameters of Electric Cathode-Ray Tubes. Literature.

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Demkov, Yu. N. Вариационные принципы в теории столкновений. (Variational Principles of Collision Theory). M., Fizmatgiz, 1958, 168 pp. illustr. Bibliography pp. 166-168 (75 titles). 6,000 copies, 5.85 rub.

Contents: Foreword. Chapters: 1. Formulation of the Variational Principle. 2. Connection between Various Formulations of Variational Principles and their Application to Collision Theory. 3. Symmetry of the Functionals, Principle of Detailed Balance and Unitarity of the Scattering Operator. 4. Scale Variation and Virial Theorem for Scattering Problems. Conclusion. Literature.

Zhabotinskiĭ, M. E. Молекулярные генераторы и усилители (Molecular Generators and Amplifiers) M.-L. Gosenergoizdat, 1958, 48 pp. illustr. (Radio Library for the Masses, Issue 311). 35,000 copies, 1.10 rub.

Contents: Introduction. Quantum Systems. Molecular Generator. Paramagnetic Amplifiers. Parametric Amplifiers. The Future of Quantum Radio Engineering.

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1958, Issue 1. Results of the scientific research carried out in the International Geophysical Year program with the aid of the first and second artificial earth satellites. 1958, 95 pp. illustr. Bibliography at the end of each article. 3500 copies, 4 rub.

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Contents: H. Keres, Theory of the Inertia Field in General Theory of Relativity. H. Oiglane, First-Order Wave Equation for the Free Nucleon. H. Oiglane, Wave Equation for Multiplets of Free Fermions. H. Oiglane, Wave Equation for Multiplets of Free Bosons.

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Contents: Foreword. Development of Electrical Communication. Waveguides. Absorption of Radio Waves in the Medium Filling the Waveguide. Additional Losses Due to Deviations in the Geometry of the Waveguides from Ideal. Self-Filtering Waveguides. Concurrent Flow. Choice of Method of Modulation. Amplitude Modulation. Frequency Modulation. Pulse-Code Modulation. Generation and Amplification of Millimeter Waves. Waveguide Elements of Lines with Round Cross Sections, Waveguides, and Measurement Procedures. Results of Experimental Investigations. Prospects of Waveguide Communication Lines. Literature.

Катализ. Электронные явления (Catalysis, Electronic Phenomena) Collection of articles. Translated from the English by L. O. Apel'baum and others. Edited by Acad. A. A. Balandin and others. M., Foreign Literature Press, 1958, 390 pp. illustr. Bibliography at the end of each article. 19.00 rub.

Contents: Foreword. 1. The Electronic Factor in Heterogeneous Catalysis. 2. Chemosorption and Catalysis on Semiconductor Oxides. 3. The Compensation Effect in Heterogeneous Catalysis. 4. Electronic and Ionic Projectors and some Appli-

cations to Catalysis and Chemosorption. 5. Adsorption on the Surface of Metals and its Connection with Catalysis. 6. Application of Semiconductor Theory to Problems of Heterogeneous Catalysis. 7. Role of Surface Barrier in Adsorption Using Zinc Oxide as an Example. 8. Electronic Interaction between Metallic Catalysts and Chemisorbed Molecules.

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Contents: Chapters: 1. Certain Information on Cybernetics. 2. Principal Arrangements of Electronic Program-Controlled Machines. 3. Principles of Programming. 4. Applications of Digital Program-Controlled Machines.

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Contents: 1. Choice of Location of Nuclear Reactors. 2. Location of Reactors Relative to the Surface of the Earth. 3. Foundations and Supports for Reactors and their Biological Shielding. 4. Shielding of the Reactor with Dry Chambers. 5. Water Shielding of Stationary Nuclear Reactors. 6. Openings in the Biological Shielding, Seals, and Gates. 7. Principal Conditions for Planning Buildings for Nuclear Reactors. 8. Reactor Chambers. 9. Rooms for Heat Exchangers in the Radioactive Loop in Power Reactors. 10. Construction of Basins in Reactor Buildings. 11. Rooms Located Below the Active Zone of the Reactor. 12. Bridges for Experimental Reactors. 13. Erection Stands for the Assembly of Reactors. 14. Structural Features of Communicating with Reactor Buildings. 15. Architecture of Buildings for Nuclear Reactors. Literature. Illustrations. Appendices.

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• **Landau, L. D. and Lifshitz, E. M.**

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Contents: Foreword. Symbols. Chapters: 1. Electrostatics of Conductors. 2. Electrostatics of Dielectrics. 3. Direct Current. 4. Constant Magnetic Field. 5. Ferromagnetism. 6. Superconductivity. 7. Quasi-Stationary Electromagnetic Field. 8. Magnetohydrodynamics. 9. Equations of Electromagnetic Waves. 10. Propagation of Electromagnetic Waves. 11. Electromagnetic Waves in Anisotropic Media. 12. Passage of Fast Particles through Matter. 13. Electromagnetic Fluctuations. 14. Scattering of Electromagnetic Waves. 15. Diffraction of X-Rays in Crystals. Appendix. Subject Index.

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Contents: Foreword. Chapters: 1. Physical Characteristics of Radioactive Radiations. 2. Methods of Measurement of Ionizing Radiations. 3. Calculation of the Dose and of the Absorbed Dose of Ionizing Radiation. 4. Calculation of the Integral Absorbed Dose. Appendices: 1. Recommendations of the International Commission on Radiological Units. 2. Descriptions of Principal Dosimetric Instruments Produced in the U.S.S.R. Literature.

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Contents: Foreword. Chapters: 1. Elements of Group Theory. 2. Certain Specific Groups. 3. Theory of Group Representations. 4. Operations with Group Representations. 5. Representations of Certain Groups. 6. Small Oscillations of Symmetrical Systems. 7. Second-order Phase Transitions. 8. Crystals. 9. Infinite Groups. 10. Representation of Rotation Group, Iteration Group, and Full Orthogonal Group. 11. The Clebsch-Gordon Coefficients and the Racah Coefficients. 12. The Schrödinger Equation. 13. Equations Invariant Relative to the Euclidian Group of Motions of Space. 14. Absorption and Raman Scattering of Light. 15. Lorentz Group Representations. 16. Relativistically-Invari-

ant Equations. 17. Nuclear Reactions. Appendices. Literature Index. Subject Index.

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Contents: Foreword. Chapters: 1. Fields of Commercial Application of High Frequency Heating of Dielectrics and Semiconductors. 2. Current and Polarization in the Electric Field of a Capacitor. 3. Parameters of Materials in Alternating Electric Fields. 4. Measurement of the Parameters of Materials in an Alternating Electric Field. 5. Distribution of Specific Power in the Material. 6. Distribution of Temperature in the Material. 7. Heated Material as a Generator Load. 8. Elements of High Frequency Vacuum-Tube Oscillators and their Operating Conditions. 9. Self Oscillators. 10. Load Matching in Commercial Oscillators. 11. Suppression of Radio Interference. 12. Adjustment and Operation of Commercial Vacuum-Tube Oscillators. Appendix. Literature. Alphabetic Index.

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Очерки развития основных физических идей (Outlines of the Development of the Principal Physical Ideas). Collection of Articles. Editors in chief, A. T. Grigor'yan and L. S. Polak. M., U.S.S.R. Acad. Sci. Press, 1959, 512 pp. with diagrams (Academy of Sciences U.S.S.R., Institute for the History of Natural Sciences and Technology). 5000 copies, 23.00 rub.

Contents: Foreword. V. P. Zubov, Physical Ideas of Antiquity. V. P. Zubov, Physical Ideas of the Middle Ages. V. P. Zubov, Physical Ideas of the Renaissance. B. G. Kuznetsov, Origin of the Mechanical Explanation of Physical Phenomena and the Ideas of Cartesian Physics. B. G. Kuznetsov, Fundamental Principles of Newton's Physics. P. S. Kudryavtsev, Principal Lines of Development of Physical Ideas in the 18th Century. P. S. Kudryavtsev, Law of Conservation of Energy. P. S. Ku-

dryavtsev, Development of the Ideas of Thermodynamics and Atomistics. P. S. Kudryavtsev, Development of the Theory of the Electromagnetic Field. B. G. Kuznetsov, Principal Ideas of the Special Theory of Relativity. D. D. Ivanenko, Principal Ideas of the General Theory of Relativity. L. S. Polak, The Rise of Quantum Physics. B. G. Kuznetsov, Principal Ideas of Quantum Mechanics. D. D. Ivanenko, Elementary Particles.

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Contents: Foreword. Part II. Semiconductor Devices. Chapters: 14. Semiconductor Diodes and Transistors (Operating Theory and Principal Parameters), L. S. Berman. 15. Cascade Transistors, Yu. V. Ilisavskii. 16. Semiconductor Photocells, V. K. Subashiev and M. S. Sominskiĭ. Chapter 17. Thermoelectric Refrigerators, E. A. Kolenko and L. S. Stil'bans. 18. Application of Semiconductors in Tensometry, A. N. Arsen'eva-Geĭl'. 19. Semiconductor Devices in Science and Practice of Agriculture, A. F. Chudnovskii. Part III. Semiconductor Materials. Chapters: 20. Ferromagnetic Semiconductors, G. A. Smolenskii and A. G. Gurevich. 21. Ferroelectrics, G. A. Smolenskii and V. A. Isupov. 22. Recombination in Semiconductors, S. M. Ryvkin. 23. Electric Fluctuations in Semiconductors, D. N. Mirlin. 24. Determination of Principal Characteristics of Semiconductors by Electric, Optical, and Magnetic Methods, H. Busch and U. Winkler. 25. Semiconductors at Low Temperature, W. A. Johnson and K. Lark-Horowitz.

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Contents: Foreword. Gal'perin E. I., Fundamental Physical Concepts. Penin, N. A., Electric Properties of Semiconductors. Skvortsova, N. E., Semiconductor Diodes. Fedotov, Ya. A., Transistors. Gal'perin E. I., The Transistor as an Amplifier Element. Gevorkyan, V. I., Stabilization of Power Supply to Transistorized Amplifier Circuits. Filippov, A. G., DC Amplifiers. Konev, Yu. I., Transistors in Servomechanism Amplifiers.

Kulikovskii, A. A., Semiconductor Amplifiers for High Frequencies. Agakhanyan, T. M., Transient and Frequency-Phase Characteristics of Junction Transistor. Agakhanyan, T. M., Transistor Video Amplifiers. Kononov, B. N., Trigger and Relaxation Circuits Employing Junction Transistors. Tsykin, G. S., Semiconductor DC Voltage Converter. Kononov, B. N., Voltage Stabilizer Employing Semiconductor Devices.

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Contents: Sections: I. Crystallization of Metals. II. Physical Chemistry of Metallurgical Processes. III. Methodology and Apparatus.

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Рекомбинация носителей тока в полупроводниках (Recombination of Carriers in Semiconductors). Collection of Articles. Translation edited by V. L. Bonch-Bruevich. M., Foreign Literature Press, 1959, 141 pp. illustr. (Problems in Physics). Bibliography at the end of each article, 7.00 rub.

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8050 copies, 8.00 rub.

Contents: Editor's Foreword. Introduction. Literature. Chapters: 1. Method of Recoil Nuclei. 2. Telescope of Proportional and Scintillation Counters. 3. Method of Nuclear Reactions. 4. Method of Time of Flight. 5. Pulsed Neutron Source. 6. Neutron Detector. 7. Time Analyzer. 8. Principal Characteristics of Time of Flight Spectrometer. Appendix. Time of Flight vs. Energy (table).

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Справочная книга по светотехнике (Handbook of Illumination Engineering). Editor in chief Academician V. S. Kulebakin. Moscow, U.S.S.R. Acad. Sci. Press, 1958 (Academy of Science U.S.S.R., Division of Technical Sciences). No. 2. Principles of Illumination Engineering and Lighting Installations. 1958, 454 pp. illustr. Bibliography at the end of each chapter, 10,000 copies, 22.85 rub.

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Contents: Foreword. Introduction. Chapters: 1. Mechanical Vibrating Systems. 2. Systems with Distributed Constants. 3. Simple Rod Vibrating Systems. 4. Simple Rod Systems with Losses. 5. Rod Systems with Smoothly-Varying Constants. 6. Combined Rod Systems. 7. Compound Rod Systems. 8. Matching Devices. 9. Flexural Vibrations of Rod Systems. 10. Losses in Rod Systems. 11. Magnetostriction Vibrator. 12. Supports, Fastenings, Junctions. Appendices. Literature.

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Faraday, M. Experimental Research in Electricity. Translated from the English. Edited and Reviewed by Corresp. Member Academy of Sciences, U.S.S.R. Prof. T. P. Kravetz and Prof. Ya. G. Dorfman. Leningrad, U.S.S.R. Acad. Sci. Press, 1959 (Academy of Sciences U.S.S.R. Classics of Science). Volume III. Translated by V. S. Gokhman and T. N. Klado. 1959.

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Contents: Foreword. Chapters: 1. Plane Electromagnetic Waves. 2. Isotropic Media. 3. Propagation of Plane Waves in Transparent Nonmagnetic Crystals. 4. Reflection and Refraction of Light in Transparent Nonmagnetic Crystals. 5. Propagation of Light in Magnetically-Anisotropic Media. 6. Absorbing Nonmagnetic Crystals. Supplements to Chapters. Literature.

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Fremke, A. V. Телеизмерения (Telemetry). Textbook for Electrical and Power Engineering Colleges and Faculties. Moscow-Leningrad, Gosenergoizdat, 1958, 304 pp. illustr. Bibliography pp. 302-304 (48 titles). 25,000 copies, 7.30 rub.

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Hendel, Alfred. Principal Laws of Physics. Translated from the 3rd German Edition by I. F. Golovina. Edited by Prof. N. N. Malov. M., Fizmatgiz, 1959, 284 pp. illustr. 10,000 copies, 5.10 rub.

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