

BOOKS RECEIVED

ELEMENTARY PARTICLES & FIELDS

Lectures in Theoretical Physics. (Summer Inst., Boulder, 1965), Vol. 8B: Fundamental Particles and High Energy Physics. W. E. Brittin, ed. 428 pp. U. of Colorado Press, Boulder, 1966. Paper \$7.00
Beta Decay. By C. S. Wu, S. A. Moszkowski. 394 pp. Wiley, New York, 1966. \$16.00

NUCLEI

Lectures in Theoretical Physics. (Summer Inst., Boulder, 1965), Vol. 8C: Nuclear Structure Physics. P. D. Kunz, D. A. Lind, W. E. Brittin, eds. 677 pp. U. of Colorado Press, Boulder, 1966. Paper \$9.00
Studies of Nuclear Reactions. Vol. 33, Proc. (Trudy), P. N. Lebedev Physics Institute. D. V. Skobel'tsyn, ed. Trans. from Russian by S. Chomet. 222 pp. Consultants Bureau, New York, 1966. Paper \$22.50

ATOMS & MOLECULES

The Theory of Nuclear Magnetic Resonance. By I. V. Aleksandrov. 197 pp. Academic Press, New York, 1966. \$8.75
Atomic Collisions: The Theory of Electron-Atom Collisions. V. Ya. Veldre, ed. Trans. from Russian by M. V. Kurepa. 136 pp. MIT Press, Cambridge, Mass., 1966. \$7.50
Advances in Structure Research by Diffraction Methods. Vol. 2. R. Brill, R. Mason, eds. 166 pp. Wiley, New York, 1966. \$9.75

FLUIDS & PLASMAS

Plasma Physics in Theory and Application. W. B. Kunkel, ed. 494 pp. McGraw-Hill, New York, 1966. \$15.00

SOLIDS

Crystal Symmetry and Physical Properties. By S. Bhagavantam. 230 pp. Academic Press, New York, 1966. \$9.50
Magnetic Domains & Techniques for Their Observation. By R. Carey, E. D. Isaac. 168 pp. Academic Press, New York, 1966. \$8.50
Recrystallization, Grain Growth and Textures. Conf. proc. (Metals Park, Ohio, 1965) American Society for Metals, Ohio, 1966. \$24.00
The Electronic Theory of Heavily Doped Semiconductors. By V. L. Bonch-Bruyevich. Trans. from Russian by Scripta Technica. 131 pp. American Elsevier, New York, 1966. \$7.50
I: Electron Diffraction; II: The Nature of Defects in Crystals. Conf. proc. (Mel-

bourne, August 1965). Pergamon Press, Oxford, 1966. \$14.00

Strong Solids. By A. Kelly. 212 pp. Oxford U. Press, New York, 1966. \$6.75

Optical Properties and Electronic Structure of Metals and Alloys. Conf. proc. (Paris, Sept. 1965) F. Abelès, ed. 643 pp. Wiley, New York, 1966. \$18.50

CLASSICAL PHYSICS

Lectures in Theoretical Physics. (Summer Inst., Boulder, 1965), Vol. 8A: Statistical Physics and Solid State Physics. W. E. Brittin, ed. 355 pp. U. of Colorado Press, Boulder, 1966. Paper \$7.00

Particle Waves and Deformation in Crystalline Solids. By E. R. Fitzgerald. 249 pp. Wiley, New York, 1966. \$11.95

The Concept of Energy: Its Significance in Fundamental Theory and Practice. By D. W. Theobald. 192 pp. Barnes & Noble, New York, 1966. \$7.50

MATHEMATICS & MATHEMATICAL PHYSICS

Topological Groups. (Second ed.) By L. F. Pontryagin. Trans. from Russian by A. Brown. 543 pp. Gordon and Breach, New York, 1966. Reference edition \$32.50, Professional edition \$17.50

Nonlinear Problems in Random Theory. By N. Wiener. 131 pp. (Reprint of 1958 ed.) MIT Press, Cambridge, 1966. Paper \$2.45

Generalized Harmonic Analysis and Tauberian Theorems. By N. Wiener. 242 pp. (Reprint of 1964 ed.) MIT Press, Cambridge, 1966. Paper \$2.95

Hill's Equation. By W. Magnus, S. Winkler. 127 pp. Wiley, New York, 1966. \$8.50

Séminaire Bourbaki, 1948-1965. In 12 volumes. W. A. Benjamin, New York, 1966. \$12.25 @, \$129.00 the set.

INSTRUMENTATION & TECHNIQUES

Infra-red Instrumentation and Techniques. By A. E. Martin. 180 pp. American Elsevier, New York, 1966. \$12.00

Semiconductor Counters for Nuclear Radiations. (Second ed.) By G. Dearnaley, D. C. Northrop. 459 pp. Wiley, New York, 1966. \$12.75

COMPILATIONS

Ultraviolet and Visible Absorption Spectra: Index for 1960-63. Compiled by H. M. Hershenson. 223 pp. Academic Press, New York, 1966. \$14.00

Directory of British Scientists, 1966-67. In two volumes. 2318 pp. Bowker, New York, 1966. \$44.10

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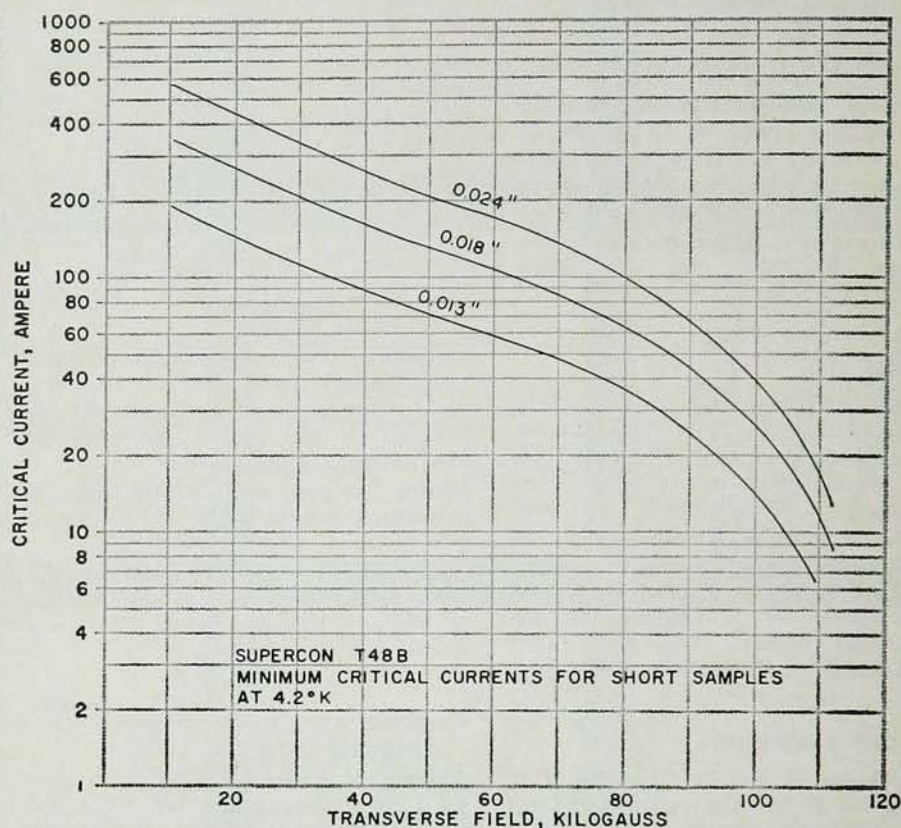
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HISTORY & PHILOSOPHY

The Social System of Science. By N. W. Storer. 180 pp. Holt, Rinehart and Winston, New York, 1966. Paper \$3.95

Research Program Effectiveness. Conf. proc. (Washington, D. C., July 1965) M. C. Yovits, D. M. Gilford, R. H. Wilcox, E. Staveley, H. D. Lerner, eds. 560 pp. Gordon and Breach, New York, 1966. Reference edition \$29.50. professional edition \$10.00

ASTRONOMY, SPACE & GEOPHYSICS

Annual Review of Astronomy and Astrophysics. Vol. 4, 1966. L. Goldberg, ed. 513 pp. Annual Reviews, Palo Alto, Calif., 1966. \$8.50

The Nature of the Lunar Surface. Conf. proc. (Greenbelt, Md., April 1965) W. N. Hess, D. H. Menzel, J. A. O'Keefe, eds. 320 pp. Johns Hopkins Press, Baltimore, 1966. \$13.50

The Theory of the Earth's Interior. By H. Takeuchi. 131 pp. Blaisdell, Waltham Mass., 1966. \$6.50

CHEMISTRY & CHEMICAL PHYSICS

Annual Review of Physical Chemistry. Vol. 17, 1966. H. Eyring, ed. 587 pp. Annual Reviews, Palo Alto, Calif., 1966. \$8.50

Transition Metal Chemistry: A Series of Advances. Vol. 2. R. L. Carlin, ed. 350 pp. Dekker, New York, 1966. \$14.75

Chemistry and Physics of Carbon: A Series of Advances. Vol. 2. 384 pp. P. L. Walker Jr., ed. Dekker, New York, 1966. \$14.50

TEXTBOOKS & EDUCATION

Physics, Part II. By D. Halliday, R. Resnick. (revised printing of second edition) Wiley, New York, 1966. \$7.75

Fundamentals of Nuclear Physics. By A. P. Arya. 646 pp. Allyn & Bacon, Boston, Mass., 1966. \$12.95

The Physics of Electricity and Magnetism. (Second ed.) By W. T. Scott. 703 pp. Wiley, New York, 1966. \$11.95

The Mechanical Properties of Matter. By A. H. Cottrell. 430 pp. Wiley, New York, 1966. \$11.00

Dielectrics and Waves. By A. R. Von Hippel. 284 pp. (Reprint of 1954 ed.) MIT Press, Cambridge, Mass., 1966. Paper \$5.95

Elements of Thermodynamics. By D. ter Haar, H. N. S. Wergeland. 160 pp. Addison-Wesley, Reading, Mass., 1966. \$9.75

Essentials of Astronomy. By L. Motz, A. Duveen. 712 pp. Wadsworth, Belmont, Calif., 1966. \$11.95

Spacetime Physics. By E. F. Taylor, J. A. Wheeler. 208 pp. Freeman, San Francisco, 1966. \$4.75

The Sun and Stars. By J. C. Brandt. 161 pp. McGraw-Hill, New York, 1966. Cloth \$4.95, paper \$2.50

Laboratory Experiments in Physics. By W. W. McCormick. 171 pp. Macmillan, New York, 1966. Paper \$4.95

Introduction to Strong Interactions. By D. Park. 253 pp. Benjamin, New York, 1966. Cloth \$9.00, paper \$4.95

Statistical Physics. By G. H. Wannier. 532 pp. Wiley, New York, 1966. \$11.50

Introduction to Non-Equilibrium Quantum Statistical Mechanics. By S. Fujita. 165 pp. Saunders, Philadelphia, 1966. \$5.00

The Electromagnetodynamics of Fluids. By W. F. Hughes, F. J. Young. 648 pp. Wiley, New York, 1966. \$17.50

Magnetohydrodynamics. By A. Jeffrey. 252 pp. Wiley, New York, 1966. \$3.50

Mathematics for Scientists. By T. A. Bak, J. Lichtenberg. 487 pp. W. A. Benjamin, New York, 1966. \$15.00

Numerical Mathematical Analysis. (Sixth ed.) By J. B. Scarborough. 600 pp. Johns Hopkins Press, Baltimore, Md., 1966. \$8.50

First Concepts of Topology: The Geometry of Mappings of Segments, Curves, Circles and Disks. By W. G. Chinn, N. E. Steenrod. 160 pp. Random House, New York, 1966. Paper \$1.95

Numerical Analysis for Computers. By J. A. N. Lee. 284 pp. Reinhold, New York, 1966. \$10.00

Principles of Defect Chemistry of Crystalline Solids. By W. Van Gool. 148 pp. Academic Press, New York, 1966. \$7.00

Photochemistry. By J. G. Calvert, J. N. Pitts, Jr. 899 pp. Wiley, New York, 1966. \$19.50

POPULARIZATIONS

The Nature of Matter: Physical Theory from Thales to Fermi. Trans. from Italian by P. Asbury. 332 pp. U. of Chicago Press, Chicago, 1966. \$5.95

Intelligent Life in the Universe. By I. S. Shklovskii, C. Sagan. 509 pp. Holden-Day, San Francisco, 1966. \$8.95

Understanding Physics. Vol. 3: The Electron, Proton and Neutron. By I. Asimov. 269 pp. Walker, New York, 1966. \$6.50

Understanding Physics. Vol. 2: Light, Magnetism and Electricity. By I. Asimov. 251 pp. Walker, New York, 1966. \$6.50

Understanding Physics. Vol. 1: Motion, Sound and Heat. By I. Asimov. 248 pp. Walker, New York, 1966. \$6.50

A correction: The correct price of FOUNDATIONS OF THE NON-LINEAR MECHANICS OF CONTINUA by L. I. Sedov (Pergamon Press) is \$12.50. It was erroneously printed as \$2.50 in PHYSICS TODAY, September 1966, page 98.

Advanced Quantum Mechanics and Particle Physics from an Elementary Approach

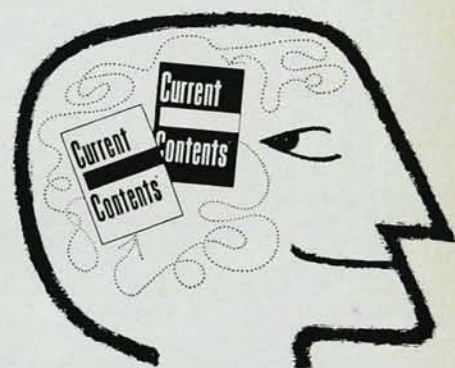
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