

BOOKS RECEIVED

BIOPHYSICS & MEDICAL PHYSICS

Molecular Biophysics. Summer School Proc. (Squaw Valley, Calif. Aug. 1964). Bernard Pullman and Mitchel Weissbluth, eds. 451 pp. Academic, New York, 1965. \$19.50.

CHEMISTRY & CHEMICAL PHYSICS

Reactivity of Solids. Symp. Proc. (Munich, Aug. 1964). G. M. Schwab, ed. 694 pp. American Elsevier, New York, 1965. \$28.50.

The Phases of Silica. By Robert B. Sosman. 388 pp. Rutgers University Press, New Brunswick, New Jersey, 1965. \$10.00.

Nonexistent Compounds. Compounds of Low Stability. By W. E. Dasent. 182 pp. Marcel Dekker, New York, 1965. \$8.50.

Advances in Chemical Physics, Volume 9. I. Prigogine, ed. 415 pp. Interscience New York, 1965. \$15.75.

COMPUTATION & COMMUNICATION

Threshold Logic: A Synthesis Approach. By Michael L. Dertouzos. 256 pp. MIT Press, Cambridge, Mass., 1965. \$6.00.

Modern Computing Methods. (2nd ed.) Philosophical Library. 170 pp. Wright & Sons, Ltd., London, 1965. \$6.00.

Optical and Electro-Optical Information Processing. James T. Tippet, et al., eds. 780 pp. MIT Press, Cambridge, Mass. 1965. \$30.00.

Computer Control of Industrial Processes. By Emanuel S. Savas. 400 pp. McGraw-Hill, New York, 1965. \$16.00.

Sampling. By Morris James Slonim. 144 pp. Simon and Schuster, New York, 1966. Paper \$1.45.

EDUCATION

Better Report Writing. (2nd ed.) By Wilis H. Waldo. 276 pp. Reinhold, New York, 1965. \$10.00.

ELECTRICITY & MAGNETISM

The Physical Principles of Magnetism. By Allan H. Morrish. 680 pp. Wiley, New York, 1965. \$16.50.

Magnetohydrodynamics of Liquid Metals. By Igor' Mikhailovich Kirko. 80 pp. Consultants Bureau, New York, 1965. Paper \$17.50.

Electromagnetic Theory. Static Fields and Their Mapping. By Ernst Weber. 590 pp. (Reprint of 1950 ed.) Dover, New York, 1965. Paper \$2.75.

Les Discontinuités de Rayonnement électromagnétique. By M. Bouix. 256 pp. Dunod, Paris, 1966. 56 F.

The Theory of Electromagnetic Waves. Morris Kline, ed. 393 pp. (Reprint of 1951 ed.) Dover, New York, 1965. Paper \$3.00.

ELECTRONICS

Electron Optics. By P. Grivet. Transl. from French by P. W. Hawkes. 781 pp. Pergamon, New York, 1965. \$30.00.

EXPERIMENTAL TECHNIQUES

Modern Radar. Analysis, Evaluation, and System Design. Raymond S. Bertowitz, ed. 660 pp. Wiley, New York, 1965. \$19.50.

Vacuum Science and Engineering. Properties of Gases at Low Pressure; Vacuum Measurements, Design and Operating Features of Vacuum Pumps and Systems. By C. M. Van Atta. 459 pp. McGraw-Hill, New York, 1965. \$15.00.

Vacuum Technique. Conf. Proc. (Heidelberg, Sept. 1962). G. Güntherschulze, ed. 94 pp. Pergamon, New York, 1965. \$10.00.

Laboratory and Workshop Notes 1962-1964. Ruth Lang, ed. Reprints from *Journal of Scientific Instruments*. 278 pp. Edward Arnold, Ltd., London, 1965.

High Speed Pulse Technology. Vol. 1, Capacitor Discharge, Magnetohydrodynamics, X-Rays, Ultrasonics. By Frank Früngel. 620 pp. Academic, New York, 1965. \$24.00.

Estimation Theory. By Ralph Deutsch. 269 pp. Prentice-Hall, Englewood Cliffs, New Jersey, 1965. \$13.00.

Boiling Heat Transfer and Two-Phase Flow. By L. S. Tong. 242 pp. Wiley, New York, 1965. \$14.00.

GENERAL

Reports on Progress in Physics. Volume XXVIII (1965). A. C. Stickland, ed. 518 pp. Institute of Physics and the Physical Society, London, 1965.

HANDBOOKS, TABLES, ETC.

Bibliographic Guide to Refrigeration 1961-1964. 895 pp. Pergamon, New York, 1965. \$25.00.

Tables of Generalized Airy Functions for the Asymptotic Solution of the Differential Equations $\epsilon (py')' + (q + \epsilon r)y = f$. By L. N. Nosova and S. A. Tumarkin. Transl. from Russian by D. E. Brown. 89 pp. Pergamon, New York, 1965. \$5.00.

HISTORY & PHILOSOPHY OF SCIENCE

The Voices of Time. A Cooperative Survey of Man's Views of Time As Expressed by The Sciences and by the Humanities. J. T. Fraser, ed. 710 pp. George Braziller, New York, 1966. \$12.50.

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Thirty Years That Shook Physics. The Story of Quantum Theory. By George Gamow. 224 pp. Doubleday, Garden City, New York, 1966. Paper \$1.45.

Boston Studies in the Philosophy of Science. Volume 2, In Honor of Philipp Frank. Robert S. Cohen and Marx W. Wartofsky, eds. 475 pp. Humanities Press, New York, 1965. \$9.75.

Collected Papers of P. L. Kapitza. Vol. 2 (1938-1964). D. ter Haar, ed. 993 pp. Pergamon, New York, 1965. \$21.50.

The Collected Papers of Enrico Fermi. Volume 2, United States 1939-1954. 1083 pp. University of Chicago Press, Chicago, 1965. \$22.50.

MECHANICS

Encyclopedia of Physics. Vol. III/3, The Non-Linear Field Theories of Mechanics. S. Flügge, ed. 602 pp. Springer-Verlag, Berlin and New York, 1965. DM 198.

NUCLEAR PHYSICS

Annual Review of Nuclear Science, Volume 15, 1965. Emilio Segrè, Gerhart Friedlander and H. Pierre Noyes, eds. 502 pp. Annual Reviews, Palo Alto, Calif., 1965. \$8.50.

NUCLEAR POWER & TECHNOLOGY

Radiation Damage in Graphite. By J. H. W. Simmons. 242 pp. Pergamon, New York, 1965. \$15.00.

OPTICS & SPECTROSCOPY

Curiosities of Light Rays and Light Waves. By S. Tolansky, F. R. S. 109 pp. American Elsevier, New York, 1965. \$4.50.

PHYSICS OF FLUIDS

Introduction to Physical Gas Dynamics. By Walter G. Vincenti and Charles H. Kruger, Jr. 538 pp. Wiley, New York, 1965. \$13.50.

SOLID STATE PHYSICS

Ferromagnetism and Ferromagnetic Domains. By D. J. Craik, and R. S. Tebble. 337 pp. (North-Holland, Amsterdam) Interscience, New York, 1965. \$14.00.

The Growth of Crystals from the Melt. By J. C. Brice. 192 pp. (North-Holland, Amsterdam) Interscience, New York, 1965. \$8.50.

Space Charge Conduction in Solids. By R. H. Tredgold. 143 pp. American Elsevier, New York, 1965. \$10.00.

Semiconductor Surfaces. By A. Manny, Y. Goldstein and N. B. Grover. 496 pp. (North-Holland, Amsterdam) Interscience, New York, 1965. \$17.50.

Computing Methods in Crystallography. J. S. Rollett, ed. 256 pp. Pergamon, New York, 1965. \$12.00.