

BOOKS RECEIVED

Introduction to Nonlinear Differential and Integral Equations (reprint of 1960 ed.). By Harold T. Davis. 562 pp. Dover Publications, Inc., New York, 1962. Paperbound \$2.00.

The Principles of Electromagnetism Applied to Electrical Machines (reprint of 1929 ed. entitled *Electromagnetic Problems in Electrical Engineering*). By B. Hague. 359 pp. Dover Publications, Inc., New York, 1962. Paperbound \$2.25.

Numerical Analysis. By Nathaniel Macon. 161 pp. John Wiley & Sons, Inc., New York, 1963. \$5.50.

Progress in Control Engineering, Volume 1. R. H. Macmillan, T. J. Higgins, P. Naslin, eds. 260 pp. Academic Press Inc., New York, 1962. \$10.00.

Temperature, Volume 3. Its Measurement and Control in Science and Industry. Charles M. Herzfeld, ed. Part 3, Biology and Medicine, edited by James D. Hardy. 683 pp. (Chapman & Hall, London) Reinhold Publishing Corp., New York, 1963. \$22.50.

Oscillations in Nonlinear Systems. By Jack K. Hale. 187 pp. McGraw-Hill Book Co., Inc., New York, 1963. \$9.00.

Compound Semiconductors. Vol. 1, Preparation of III-V Compounds. Robert K. Willardson and Harvey L. Goering, eds. 553 pp. (Chapman & Hall, London) Reinhold Publishing Corp., New York, 1962. \$25.00.

Electromagnetism (2nd ed.). By Robert M. Whitmer. 357 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1962. \$9.75.

Adhesion and Cohesion. Philip Weiss, ed. Symp. Proc. (Michigan, 1961). 272 pp. American Elsevier Publishing Co., New York, 1962. \$11.00.

A Principle Solution of the Physical Universe. By Edwin H. Schaefer. Vol. 1 of a Trilogy. 133 pp. Pageant Press, Inc., New York, 1962. \$4.00.

Heat, Thermodynamics, and Statistical Physics. By Franzo H. Crawford. 700 pp. Harcourt, Brace & World, Inc., New York, 1963. \$10.00.

Microwave Circuit Theory and Analysis. By Rabindra N. Ghose. 418 pp. McGraw-Hill Book Co., Inc., New York, 1963. \$12.00.

How to Detect and Measure Radiation. By Harold S. Renne. 160 pp. Howard W. Sams & Co., Inc., Indianapolis, Ind., 1963. Paperbound \$3.95.

Quantum Theory of Molecules and Solids. Vol. 1, Electronic Structure of Molecules. By John C. Slater. 485 pp. McGraw-Hill Book Co., Inc., New York, 1963. \$12.50.

Nuclear Reactions, Volume 2. P. M. Endt and P. B. Smith, eds. 542 pp. North-Holland Publishing Co., Amsterdam, 1963. Distr. in US by John Wiley & Sons, Inc., New York. \$18.50.

Flow Measurement in Closed Conduits. Vol. 1, 383 pp.; Vol. 2, 384 pp. Symp. Proc. (Nat'l Engineering Lab., Sept. 1960). Her Majesty's Stationery Office, Edinburgh, 1962. Distr. in US by British Information Services, New York. \$16.80.

Dimensional Analysis (reprint of 1931 ed.). By P. W. Bridgman. 113 pp. Yale Univ. Press, New Haven, Conn., 1963. Paperbound \$1.65.

Concise Encyclopaedia of Nuclear Energy. D. E. Barnes, R. Batchelor, A. G. Maddock, J. A. Smedley, Denis Taylor, eds. 886 pp. Interscience Div. of John Wiley & Sons, Inc., New York, 1963. \$25.00.

Synthesis of Feedback Systems. By Isaac M. Horowitz. 726 pp. Academic Press, New York, 1963. \$16.50.

ABC's of Lasers and Masers. By Allan Lytel. 95 pp. Howard W. Sams & Co., Inc., Indianapolis, Ind., 1963. Paperbound \$1.95.

Hall-Effect Instrumentation. By Barron Kemp. 128 pp. Howard W. Sams & Co., Inc., Indianapolis, Ind., 1963. \$4.95.

Lectures on Gas Chromatography 1962 (Canisius Col., Buffalo, Apr. 1962). Herman A. Szymanski, ed. 282 pp. Plenum Press, New York, 1963. \$10.00.

Differential Amplifiers. Their Analysis and Their Applications in Transistor d-c Amplifiers. By R. D. Middlebrook. 115 pp. John Wiley & Sons, Inc., New York, 1963. \$7.95.

Fluctuation, Relaxation and Resonance in Magnetic Systems. Scottish Universities' Summer School, 1961. D. ter Haar, ed. 320 pp. Plenum Press, New York, 1962. \$12.50.

Nonlinear Differential Equations and Nonlinear Mechanics. Joseph P. LaSalle and Solomon Lefschetz, eds. Symp. Proc. (US Air Force Academy, Colorado Springs, Colo., July-Aug. 1961). 505 pp. Academic Press, New York, 1963. \$18.00.

Electronic Structure and Alloy Chemistry of the Transition Elements. Paul A. Beck, ed. Symp. Proc. (New York, Feb. 1962). 251 pp. Interscience Div. of John Wiley & Sons, Inc., New York, 1963. \$12.00.

Vectors. By Raymond A. Barnett and John N. Fujii. 132 pp. John Wiley & Sons, Inc., New York, 1963. \$2.95.

Elementary Particles and Cosmic Rays. By Alladi Ramakrishnan. 567 pp. Pergamon Press Ltd., Oxford, England, 1962. Distr. in US by The Macmillan Co., New York. \$15.00.

Nuclear Shell Theory. By Amos de-Shalit and Igal Talmi. Vol. 14 of Pure and Applied Physics, edited by H. S. W. Massey. 573 pp. Academic Press Inc., New York, 1963. \$14.50.

Optics of Flames. Including Methods for the Study of Refractive Index Fields in Combustion and Aerodynamics. By F. J. Weinberg. 251 pp. Butterworths, Washington, D. C., 1963. \$10.95.

Microwave Engineering. By A. F. Harvey. 1313 pp. Academic Press Inc., New York, 1963. \$35.00.

The Architecture of Matter. By Stephan Toulmin and June Goodfield. 399 pp. Harper & Row, New York, 1962. \$7.50.

Thermodynamics of Liquids and Solids. S. Flügge, ed. Vol. 13 of Encyclopedia of Physics. 679 pp. Springer-Verlag, Berlin, 1962. DM 198.00.

Landolt-Börnstein Zahlenwerte und Funktionen aus Physik, Chemie, Astronomie, Geophysik und Technik. Vol. 2, Eigenschaften der Materie in ihren Aggregatzuständen. Karl-Heinz Hellwege and Anne Marie Hellwege, eds. Part 8, Optische Konstanten, 901 pp. DM 476; Part 9, Magnetische Eigenschaften I, 935 pp. DM 496. Springer-Verlag, Berlin, 1962.

Knowledge and Wonder. The Natural World as Man Knows It. By Victor F. Weisskopf. 282 pp. Doubleday Anchor Books, Garden City, N. Y., 1962. Paperbound \$1.45.

Lady Luck. *The Theory of Probability.* By Warren Weaver. 392 pp. Doubleday Anchor Books, Garden City, N. Y., 1963. Paperbound \$1.45.

Modern Operational Calculus (revised ed.). With Applications in Technical Mathematics. By N. W. McLachlan. 218 pp. Dover Publications, Inc., New York, 1962. Paperbound \$1.75.

Engineering Science Mechanics. By Robert R. Long. 433 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. \$9.75.

Developments in Theoretical and Applied Mechanics, Volume 1. Conf. Proc. (Gatlinburg, Tenn., May 1962). 519 pp. Plenum Press, New York, 1963. \$16.00.

Inductance Calculations (reprint of 1946 ed.). Working Formulas and Tables. By Frederick W. Grover. 286 pp. Dover Publications, Inc., New York, 1962. Paperbound \$1.85.

Introduction to Nonlinear Differential and Integral Equations (reprint of 1960 ed.). By Harold T. Davis. 566 pp. Dover Publications, Inc., New York, 1962. Paperbound \$2.00.

The Measure of the Moon. By Ralph B. Baldwin. 488 pp. The Univ. of Chicago Press, Chicago, Ill., 1963. \$13.50.

Methods in Exterior Ballistics (reprint of 1926 ed. entitled *New Methods in Exterior Ballistics*). By Forest Ray Moulton. 259 pp. Dover Publications, Inc., New York, 1962. Paperbound \$1.75.

Differential-Difference Equations. By Richard Bellman and Kenneth L. Cooke. Vol. 6, Mathematics in Science and Engineering, edited by Richard Bellman. 462 pp. Academic Press Inc., New York, 1963. \$13.75.

Linear Algebra and Matrix Theory. By Evar D. Nering. 289 pp. John Wiley & Sons, Inc., New York, 1963. \$6.95.

Statistical Theory of Reliability. Marvin Zelen, ed. Seminar Proc. (Univ. of Wisconsin, May 1962). 166 pp. The Univ. of Wisconsin Press, Madison, Wisc., 1963. \$5.00.

Helmholtz's Treatise on Physiological Optics. Transl. from 1924 German ed. and edited by James P. C. Southall. Vol. 1 & 2 (bound together), 961 pp.; Vol. 3, 734 pp. Dover Publications, Inc., New York, 1962. \$15.00 per set.

The Concept of the Positron. A Philosophical Analysis. By Norwood Russell Hanson. 236 pp. Cambridge Univ. Press, New York, 1963. \$5.95.

The Thermochemical Properties of Uranium Compounds. By M. H. Rand and O. Kubaschewski. 96 pp. Oliver & Boyd, London, 1963. 30s.

Formal Structure of Electromagnetics. General Covariance and Electromagnetics. By E. J. Post. 204 pp. North-Holland Publishing Co., Amsterdam, 1962. Distr. in US by John Wiley & Sons, Inc., New York. Paperbound \$7.50.

Ion Association. By C. W. Davies. 190 pp. Butterworths, Washington, D. C., 1962. \$7.50.

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Facilities available: large digital and analog computers, programming staff, critical assemblies for theory evaluation.

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A strong theoretical reactor physics program complements our experimental work and provides sound methodology and understanding in core and reactor systems design. The program includes studies of neutron transport effects in static systems . . . statistical fluctuations studies of flux and power levels . . . evaluation of pulsed-neutron work for criticality and reactor parameter determination . . . investigation of nuclear-thermal interactions and non-linear effects in general . . . reactor kinetics studies. Qualifications include a PhD in Theoretical or Nuclear Physics or Nuclear Engineering.

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To apply or gain additional information, write fully in strict confidence to Mr. G. L. Smallwood, Div. 51-L.

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