

Books Received

MECHANICS. By Keith R. Symon. 358 pp. Addison-Wesley Publishing Company, Inc., Cambridge, Massachusetts, 1953. \$7.50.

TELEVISION FUNDAMENTALS. THEORY, CIRCUITS, AND SERVICING. By Kenneth Fowler and Harold B. Lippert. 524 pp. McGraw-Hill Book Company, Inc., New York, 1953. \$7.00.

ANNUAL REVIEW OF PHYSICAL CHEMISTRY. Volume IV. G. K. Rollefson, Editor, R. E. Powell, Associate Editor. 493 pp. Annual Reviews, Inc., Stanford, California, 1953. \$6.00.

EXPERIMENTAL NUCLEAR PHYSICS. Volume II. Edited by E. Segrè. Contributors, Philip Morrison and Bernard T. Feld. 600 pp. John Wiley and Sons, Inc., New York, 1953. \$12.00.

METHODS OF MATHEMATICAL PHYSICS (First English Edition, revised). Volume I. By R. Courant and D. Hilbert. 561 pp. Interscience Publishers, Inc. New York, 1953. \$9.50.

FOURTH SYMPOSIUM (INTERNATIONAL) ON COMBUSTION (COMBUSTION AND DETONATION WAVES). Published by the Standing Committee on Combustion Symposia: Bernard Lewis, chairman, Hoyt C. Hottel, secretary, and A. J. Nerad, member. 926 pp. The Williams & Wilkins Company, Baltimore, Maryland, 1953. \$7.00.

ATMOSPHERIC ELECTRICITY (Second Edition). By B. F. J. Schonland. 95 pp. Methuen & Company Ltd., London, England, 1953. John Wiley & Sons, Inc., New York. \$1.75.

AN INTRODUCTION TO POWER SYSTEM ANALYSIS. By Frederick S. Rothe. 187 pp. John Wiley & Sons, Inc., New York, 1953. \$5.00.

PRINCIPLES OF TRANSISTOR CIRCUITS. Edited by Richard F. Shea. Co-authors: Woo Fung Chow, Sorab K. Ghandhi, Edward Keonjian, Vernon P. Mathis, Charles A. Rosen, John S. Saby, Johannes S. Schaffner, Richard F. Shea, Jerome J. Suran. 535 pp. John Wiley & Sons, Inc., New York, 1953. \$11.00.

ORGANIC SYNTHESIS. Volume 33. Editor-in-chief, Charles C. Price. 115 pp. John Wiley & Sons, Inc., New York, 1953. \$3.50.

THUNDERSTORM ELECTRICITY. Edited by Horace R. Byers. 344 pp. The University of Chicago Press, Chicago, Illinois, 1953. \$6.00.

THE PHYSICAL SOCIETY REPORTS ON PROGRESS IN PHYSICS. Volume XVI. Executive Editor, A. C. Stickland. 407 pp. The Physical Society, London, England, 1953. Non-Fellows, £2, 10s.; fellows, 27s. 6d.

PROCEEDINGS OF THE WESTERN COMPUTER CONFERENCE. Joint IRE-AIEE-ACM Conference, Los Angeles, 1953. 231 pp. The Institute of Radio Engineers, Inc., New York, 1953. \$3.50.

HANNA'S HANDBOOK OF AGRICULTURAL CHEMICALS. By Lester W. Hanna. 209 pp. Lester W. Hanna, Route 1, Box 210, Forest Grove, Oregon, 1953. \$3.25.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON BETA AND GAMMA RADIOACTIVITY. Amsterdam, 1952. Netherlands Physical Society (Supported by the International Union of Pure and Applied Physics and Unesco). 330 pp. Reprint from *Physica*, volume XVIII, 1952.

ASTROLOGY AND ALCHEMY: TWO FOSSIL SCIENCES. By Mark Graubard. 382 pp. Philosophical Library, New York, 1953. \$5.00.

INTRODUCTION TO ELECTRIC THEORY. By R. G. Fowler. 390 pp. Addison-Wesley Publishing Company, Inc., Cambridge, Massachusetts, 1953. \$7.50.

INTRODUCTION TO EXPERIMENTAL PHYSICS

By William B. Fretter, *University of California, Berkeley*

This text presents for the first time a countless number of small but invaluable details of techniques not found in texts, references, or journals. The procedures themselves have never before been available except from widely diverse sources.

It is an authoritative description of various procedures in current use in experimental physics including numerous techniques common to most experiments in modern physics. The emphasis is on those procedures developed in recent years and particular attention is given to atomic and nuclear physics techniques. Particle detectors are discussed in some detail with comparative advantages given and the various types of particle accelerators are discussed.

342 pages 6" x 9" January 1954

MATHEMATICAL METHODS FOR SCIENTISTS AND ENGINEERS

By Lloyd P. Smith, *Chairman, Department of Physics, and Director, Department of Engineering Physics, Cornell University*

Providing a large number of fully worked-out problems, this text illustrates actual usage in a way that develops facility and explains clearly the conditions required for each method to be applicable. Since emphasis is on actual use, the explanations of conditions of use are made as precise and clear as possible. The student does not need the analytical and technical background of a mathematician to understand them.

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