

Atomic power, we feel, offers outstanding opportunity for an engineer or scientist to grow professionally. It's new enough so that the work is challenging; still it's well enough established so that a capable man can make real progress.

If you are interested in a non-routine position that will use all of your education and experience, we suggest you investigate the future with the leader in Atomic Power. At Bettis Plant, there are select positions open for specially qualified:

- PHYSICISTS
  - MATHEMATICIANS
- METALLURGISTS
  - ENGINEERS

Write for the booklet "Tomorrow's Opportunity TODAY" that describes opportunities in your field. Be sure to indicate your specific interests.

Write: Mr. A. M. Johnston Dept. A-64, Westinghouse Bettis Plant P. O. Box 1468 Pittsburgh 30, Penna.

## BETTIS PLANT Westinghouse

FIRST IN ATOMIC POWER

ting a good deal of territory to be covered. An early chapter is devoted to elementary quantum mechanics, and quantum-mechanical concepts such as phase shifts are developed carefully throughout the text.

Theorie der Wärme, Molekular-kinetische Theorie der Materie, by Clemens Schaefer, is an essentially unchanged reprint of the second volume's third edition of the author's well-known three-volume introduction to theoretical physics. It first appeared in 1920, was considerably revised for the second edition in 1929 and has remained essentially in that form, the war conditions prevailing in 1943 when a third edition was demanded having made an extensive overhaul impracticable. The fact that a reprinting of the third edition is now called for speaks eloquently for the outstanding service the work has performed in the training of theoretical physicists. It remains one of the clearest introductory works in this field in any language. (Vol. 2 of Einführung in die theoretische Physik; 660 pp.: Walter de Gruyter, Berlin, Germany, 1955; DM 42.00.)

#### Books Received

THE THEORY OF PHOTONS AND ELECTRONS. By J. M. Jauch and F. Rohrlich, 488 pp. Addison-Wesley Publishing Co., Inc., Cambridge, Mass., 1955. \$10.00.

METHODS OF MATHEMATICAL PHYSICS (Third Edition). By Sir Harold Jeffreys and Bertha Swirles, 714 pp. Cambridge U. Press, New York, 1956. \$15.00.

PHYSICAL PROPERTIES OF CHEMICAL COMPOUNDS. #15 of the Advances in Chemistry Series. Compiled by R. R. Dreisbach. Edited by the staff of Industrial and Engineering Chemistry. 536 pp. American Chemical Society, Washington, D. C., 1955. \$5.85.

Between the Planets (Revised Edition). By Fletcher G. Watson. 188 pp. Harvard U. Press, Cambridge, Mass., 1956. \$5.00.

KERNMOMENTE (Second Revised Edition). By Hans Kopfermann. 462 pp. Akademische Verlagsgesellschaft MBH, Frankfurt am Main, Germany, 1956. DM 54.00.

APPLICATIONS OF RADIOACTIVE ISOTOPES AND FISSION PROD-UCTS IN RESEARCH AND INDUSTRY. Vol. 15 of Peaceful Uses of Atomic Energy; Proceedings of the Internat'l Conf. in Geneva, August 1955. 327 pp. (UN) Columbia U. Press, New York, 1956. \$7.50.

LES AÉROSOLS. By A. P. Avy. 292 pp. Dunod, Paris, France,

LINES OF THE CHEMICAL ELEMENTS IN ASTRONOMICAL SPECTRA. Vol. IX of Papers of the Mount Wilson Observatory. By Paul W. Merrill. 167 pp. Publication No. 610. Carnegie Institution of Washington, Washington, D. C., 1956. Clothbound \$2.00; paperbound \$1.60.

11TH GENERAL ASSEMBLY OF THE INTERNATIONAL SCIENTIFIC RADIO UNION (URSI). Volume X, Part 7, Commission VII on Radioelectronics. 140 pp. International Scientific Radio Union, Brussels, Belgium, 1956. Paperbound \$3.00.

RAPID CALCULATIONS. By A. H. Russell. 287 pp. Emerson Books, Inc., New York, 1956. \$2.95.

INTRODUCTION TO PLASTICITY. By Aris Phillips. 230 pp. The Ronald Press Co., New York, 1956. \$7.00.

VISIBLE AND NEAR-VISIBLE LIGHT. Vol. III of Radiation Biology. Edited by Alexander Hollaender. 765 pp. Mc-Graw-Hill Book Co., Inc., New York, 1956. \$10.00.

ADVANCED THEORY AND PROBLEMS, Part II of Strength of Materials (Third Edition). By S. Timoshenko. 572 pp. D. Van Nostrand Co., Inc., Princeton, N. J., 1956. \$7.50.

EXPANDING UNIVERSES. By Erwin Schrödinger, 93 pp. Cambridge U. Press, New York, 1956. \$3.50.

RESISTANCE OF MATERIALS (Fourth Edition). By Fred B. Seely and James O. Smith. 459 pp. John Wiley & Sons, Inc., New York, 1956. \$6.50.

METALLURGICAL THERMOCHEMISTRY. By O. Kubaschewski and E. Ll. Evans. 410 pp. John Wiley & Sons, Inc., New York, 1956. \$10.00.

ANALYTICAL LABORATORY PHYSICS. By J. P. Nickol, H. F. Meiners, K. H. Moore, W. Eppenstein. 253 pp. J. W. Edwards, Publisher, Inc., Ann Arbor, Mich., 1956. \$5.50.

THE LAWS OF NATURE. By R. E. Peierls. 284 pp. Charles Scribner's Sons, New York, 1956. \$4.50.

GEOMETRICAL OPTICS. By L. C. Martin. 215 pp. Philosophical Library, Inc., New York, 1956. \$7.50.

CONFERENCE ON ELECTRICAL INSULATION OF DIV. OF ENGINEERING AND INDUSTRIAL RESEARCH, Annual Report, 1955. 59 pp. Publication No. 396. Nat'l Academy of Sciences—Nat'l Research Council, Washington, D. C., 1956. Paperbound \$3.00.

EUCLID'S ELEMENTS (Reprint of 2nd Edition). Vol. 1, 432 pp.; Vol. 2, 436 pp.; Vol. 3, 546 pp. Dover Publications, Inc., New York, 1956. Clothbound \$4.00 each; paperbound \$1.95 each, \$5.85 for 3 vol. set.

FAMOUS PROBLEMS OF ELEMENTARY GEOMETRY (Reprint of 2nd Edition). By Felix Klein. 92 pp. Dover Publications, Inc., New York, 1956. Clothbound \$1.50; paperbound \$1.00. INTRODUCTION TO THE THEORY OF GROUPS OF FINITE ORDER (Reprint). By Robert D. Carmichael. 447 pp. Dover Publications, Inc., New York, 1956. Clothbound \$3.95; paperbound \$2.00.

PROCEEDINGS OF THE WORLD SYMPOSIUM ON APPLIED SOLAR ENERGY (Phoenix, Arizona, Nov. 1955). 304 pp. Stanford Research Inst., Menlo Park, Calif., 1956. \$5.00.

ANALYSIS OF ELECTRIC CIRCUITS. By William H. Middendorf. 306 pp. John Wiley & Sons, Inc., New York, 1956.

CROSS SECTIONS IMPORTANT TO REACTOR DESIGN. Vol. 4 of Peaceful Uses of Atomic Energy; Proceedings of the Internat'l Conf. in Geneva, Aug. 1955. 357 pp. (UN) Columbia U. Press, New York, 1956. \$7.50.

Nuclear Chemistry and Effects of Irradiation. Vol. 7 of Peaceful Uses of Atomic Energy; Proceedings of the Internat'l Conf. in Geneva, Aug. 1955. 691 pp. (UN) Columbia U. Press, New York, 1956. \$10.00.

PRODUCTION TECHNOLOGY OF THE MATERIALS USED FOR NUCLEAR ENERGY. Vol. 8 of Peaceful Uses of Atomic Energy; Proceedings of the Internat'l Conf. in Geneva, Aug. 1955. 627 pp. (UN) Columbia U. Press, New York, 1956. \$10.00. ADVANCES IN BIOLOGICAL AND MEDICAL PHYSICS. Vol. IV.

Advances in Biological and Medical Physics. Vol. IV. Edited by John H. Lawrence and Cornelius A. Tobias. 356 pp. Academic Press Inc., New York, 1956. \$8.80.

ELECTROCHEMICAL AFFINITY. By Pierre van Rysselberghe. 109 pp. Hermann & Cie, Paris, France, 1955. Paperbound.

### electronic engineers

Experienced in design of electronic circuits, radio, frequency, DC and video amplifiers, pulsers, and . IF amplifiers, electronic control circuits for gating and limiting, magnetic relays and FM circuitry.

# physicists

Industrial or laboratory experience. Knowledge of wave motion in solids, sonar techniques, seismology, acoustics or ultrasonics.

### ULTRASONICS

America's Fastest Growing Industry

Your opportunity to join Sperry Products, Inc., a recognized leader in Ultrasonics, depends upon:

- Your ability to develop and design equipment for generating, controlling or utilizing ultrasonics.
- Your interest in a continuing program of development toward long-range, non-defense objectives.
- Your desire to grow in a field that is still in the pioneering stages.

These are permanent positions. Good salaries and comprehensive company benefits add to your security. Relocation expenses will be paid, and you will live in the rolling foothills of the Connecticut Berkshires, less than two hours from New York City.

Please send resume, in confidence, to P. J. Olivo.



SPERRY PRODUCTS, INC.

Danbury, Connecticut