BASIC PHYSICAL RESEARCH AT RAMO-WOOLDRIDGE

New projects in the Ramo-Wooldridge Research Laboratories have created opportunities for experimental and theoretical scientists to perform basic and applied research in the following fields:

PLASMA PHYSICS
IONIC PROPULSION
MILLIMETER WAVE GENERATION
SOLID STATE PHYSICS

HYPERVELOCITY IMPACT AND MICROMETEORITE STUDIES

LOW NOISE AMPLIFICATION AND STIMULATED EMISSION PHENOMENA

FUNDAMENTAL STUDIES OF BOILING HEAT TRANSFER NUCLEAR REACTOR KINETICS VACUUM ELECTRONICS

Physicists holding a Ph.D. degree, or a master's degree with several years of appropriate experience, are encouraged to acquaint themselves with the scope of the Ramo-Wooldridge Research Laboratories.

NEW YORK APPOINTMENTS

may be arranged during the Annual Meeting of the American Physical Society, Wednesday through Saturday, January 27-30 by calling Mr. Frank C. Nagel collect at LOngacre 3-6838. Or inquiries may be addressed to Mr. Nagel at

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lational approach is, in this reviewer's opinion, better suited to a student's second contact after he has seen some of the skeletons in the closet. The subject is mysterious enough without taking a high priest attitude, for, after all, our present formulation and interpretation were arrived at only after a great deal of groping in the dark and finding that certain viewpoints led to correct answers and other equally sensible attitudes did not.

One of the difficulties often experienced in teaching a course in modern physics is finding problems for the student to solve that are not too demanding and yet not too unrealistic. It is a tribute to the author that he has been able to include a very large number of interesting and illuminating "exercises" which, if taken seriously by the browsing physicist as well as the serious student, will make a substantial contribution to one's understanding. The extensive use of problems-forthe-student to develop the underlying techniques somewhat reduces the value of the book as a general reference text, but such a treatise was not the author's goal.

While Principles of Modern Physics is too advanced to serve as the only text used in an average senior course in modern physics it should be on the shelf of every serious senior or graduate student in physics—and chemistry. Engineers, too, especially those who are interested in nuclear physics, solid-state physics, and the conquest of outer space will be well repaid by a close study of this book.

Books Received

INTRODUCTORY NUCLEAR THEORY, By L. R. B. Elton. 286 pp. Interscience Publishers, Inc., New York, 1959, \$6.40.

EXPLORING THE STRUCTURE OF MATTER. By Jean-Jacques Trillat. Translated from French by F. W. Kent. 214 pp. Interscience Publishers, Inc., New York, 1959. \$4.85.

PROGRESS IN CRYOGENICS, Vol. 1. Edited by K. Mendelssohn. 259 pp. Academic Press Inc., New York, 1959. \$11.00.

Soviet Research in Crystallography, 1956. Translated and compiled by Consultants Bureau, Inc. 72 pp. Consultants Bureau, Inc., New York, 1959. Paperbound \$10.00.

FUNDAMENTALS OF ELECTRONICS (2nd Revised Ed.). By F. H. Mitchell. 260 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1959. \$6.50.

GREAT EXPERIMENTS IN PHYSICS. Edited by Morris H. Shamos. 370 pp. Henry Holt & Co., New York, 1959. \$4.40. Nuclear Reactors Built, Building or Planned in the United States as of June 30, 1959. 32 pp. Technical In-

formation Service Extension, AEC, P. O. Box 62, Oak Ridge, Tenn., 1959. Paperbound, no charge.

COSTS OF NUCLEAR POWER, July 1959. Prepared by AEC Office of Operations Analysis & Forecasting. 29 pp. TID-8506. Office of Technical Services, Dept. of Commerce, Washington, D. C., 1959, Paperbound \$.50.

Materials Research Frontiers Symposium (ASTM Meeting, Boston, Mass, June 1958). 48 pp. ASTM Special Technical Publ. No. 243. Amer. Soc. for Testing Materials, Philadelphia, Pa., 1959. \$2.00.

PROPERTY MEASUREMENTS AT HIGH TEMPERATURES. By W. D. Kingery, 416 pp. John Wiley & Sons, Inc., New York, 1959, \$16.50.

TECHNIQUES MODERNES ET APPLICATIONS DE LA CRYOMÉTRIE. By Y. Doucet. 225 pp. Dunod, Paris, France, 1959. 1450 fr.

Lessons in Seismic Computing: A Memorial to the Author. By Morris Miller Slotnick. Edited by Richard A. Geyer. 268 pp. The Soc. of Exploration Geophysicists, Tulsa, Okla., 1959. \$5.50 in US; \$6.00 elsewhere.

An Introduction to Plasticity. By William Prager. 148 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1959. \$9.50.

KINETICS OF HIGH-TEMPERATURE PROCESSES: Conf. Report (MIT, June 1958). Edited by W. D. Kingery. 326 pp. The Technology Press of MIT & John Wiley & Sons, Inc., New York, 1959. \$13.50.

Tables of the Bivariate Normal Distribution Function and Related Functions. Compiled and edited by the Nat'l Bureau of Standards. 258 pp. NBS Appl. Math. Series No. 50. US Govt. Printing Office, Washington, D. C., 1959, \$3.25.

Solid State Physics: Advances in Research & Applications, Vol. 9. Edited by Frederick Seitz and David Turnbull. 548 pp. Academic Press Inc., New York, 1959. \$14.50.

SPACE TECHNOLOGY, 38 authors. Edited by Howard S. Seifert. 33 chapters. John Wiley & Sons, Inc., New York, 1959. \$22.50.

REPORT OF THE FLUID FUEL REACTORS TASK FORCE: to Div. of Reactor Dev., AEC, Feb. 1959. 188 pp. TID-8507. Office of Technical Services, Dept. of Commerce, Washington, D. C., 1959. Paperbound \$1.75.

ELECTROLYTIC CONDUCTANCE. By Raymond M. Fuoss and Filippo Accascina. 279 pp. Interscience Publishers, Inc., New York, 1959. \$8,00.

PLASMA PHYSICS AND THE PROBLEM OF CONTROLLED THER-MONUCLEAR REACTIONS, Vol. 3. Edited by M. A. Leontovich. Translated from Russian by J. B. Sykes. Translation editor, J. Turkevich. 422 pp. Pergamon Press, London & New York, 1959. \$24.00. (4-vol. set \$80.00.)

ATLAS OF 7-RAY SPECTRA FROM RADIATIVE CAPTURE OF THERMAL NEUTRONS. By L. V. Groshev, V. N. Lutsenko, A. M. Demidov, V. I. Pelekhov. Translated from Russian by J. B. Sykes. 198 pp. Pergamon Press, London & New York, 1959. \$20.00.

HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE. By J. A. Pople, W. G. Schneider, H. J. Bernstein. 501 pp. McGraw-Hill Book Co., Inc., New York, 1959. \$13.50.

ANNUAL REVIEW OF PHYSICAL CHEMISTRY, Vol. 10. Edited by H. Eyring, C. J. Christensen, H. S. Johnston. 537 pp. Annual Reviews, Inc., Palo Alto, Calif., 1959. \$7.00 in US; \$7.50 elsewhere.

GAS CHROMATOGRAPHY (2nd Revised Ed.). By A. I. M. Keulemans. Edited by C. G. Verver. 234 pp. Reinhold Publishing Corp., New York, 1959. \$7.50.

THE REALM OF THE NEBULAE (Reprint of 1936 ed.). By Edwin Hubble. 207 pp. Dover Publications, Inc., New York, 1958. Paperbound \$1.50.

PROCESSING NEUROELECTRIC DATA. By Communications Biophysics Group of Research Lab. of Electronics & William M. Siebert. 121 pp. Technical Report 351. The Technology Press of MIT, Cambridge, Mass., 1959. Paperbound.



Then you are cordially invited to submit your resume to Mr. Gordon R. Hamilton, Jr., Personnel Manager, or visit our representatives at the meeting of the American Physical Society at the Hotel New Yorker, New York City, New York, January 27 through January 30, 1960.



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