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liked to see more emphasis placed on the use of significant figures and a little less emphasis on the formal part of preparing notes. The main part of the book consists of 47 experiments described in detail: 10 in mechanics; 7 in heat, theory of gases, and acoustics; 12 in optics; and 18 in electricity and magnetism. In line with the undergraduate character of the book no advanced experiments are described. The most advanced, in terms of modern physics, is probably the determination of the characteristics of a triode, which indicates how "classical" the contents of this syllabus are. The volume ends with appendixes on damping, galvanometers, and error calculation, as well as a few simple tables used in undergraduate laboratory practice.

All experiments are described in detail with extensive numerical examples giving the usual course of an experiment. The book does not ask the student questions as its American counterpart does—the whole experiment, together with an extensive graphical presentation of the results, is handed to the student. In comparing identical experiments in the two syllabuses, Westphal's seems to go into more detail. For instance, where Wall and Levine are content with giving the simple pendulum, Westphal treats both the simple and the compound pendulum together with a treatment of the higher order corrections of the period of oscillation. All in all, 21 pages are devoted to the pendulum as compared to 2 pages in the American book. On the other hand, the treatment of vacuum tubes is confined to 7½ pages in Westphal, whereas Wall and Levine treat vacuum tubes and related matter in 31 pages.

The book can be warmly recommended as an aid to teachers who wish to make up syllabuses of their own. It is bound very attractively in a flexible leather-like plastic cover, which should give good wear even in the hands of undergraduates. It might be worthwhile for the American book industry to have a look at this kind of binding.

Books Received

LES SÉRIES ET LEUR APPLICATION À LA RESOLUTION DE DIVERS PROBLÈMES PRATIQUES D'ANALYSE MATHÉMATIQUE, Vol. 1. By C. Meynart. 198 pp. Eyrolles, Paris, France, 1959. 2800 fr.

CRPL EXPONENTIAL REFERENCE ATMOSPHERE. By B. R. Bean and G. D. Thayer. 67 pp. NBS Monograph No. 4. US Govt. Printing Office, Washington, D. C., 1959. Paper-bound \$.45.

THE THEORY OF OPTIMUM NOISE IMMUNITY. By V. A. Kotelnikov. Translated from Russian by R. A. Silverman. 140 pp. McGraw-Hill Book Co., Inc., New York, 1959. \$7.50.

MATHEMATICAL METHODS AND THEORY IN GAMES, PROGRAMMING, AND ECONOMICS. Vol. 1, *Matrix Games, Programming, and Mathematical Economics*, 433 pp. Vol. 2, *The Theory of Infinite Games*, 386 pp. By Samuel Karlin. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1959. \$12.50 each.

RUSSIAN DIARY. By Gaylord P. Harnwell. 125 pp. U. of Pennsylvania Press, Philadelphia, Pa., 1960. \$3.75.

PRÉCISIONS SUR LA RELATIVITÉ: à la Portée de Tous. By René G. Marchand. 125 pp. Jean Grassin Editeur, Paris, France, 1959. Paperbound 700 fr.

SCIENCE STUDY SERIES. *The Birth of a New Physics*, by I. Bernard Cohen, 200 pp. \$.95. *Crystals and Crystal Growing*, by Alan Holden and Phyllis Singer, 320 pp. \$1.45. *Waves and the Ear*, by Willem A. van Bergeijk, John R. Pierce, Edward E. David, Jr., 235 pp. \$.95. *The Physics of Television*, by Donald G. Fink and David M. Lutyens, 160 pp. \$.95. Doubleday Anchor Books, Garden City, New York, 1960. All paperbound.

PHYSICAL METALLURGY. By Bruce Chalmers. 468 pp. John Wiley & Sons, Inc., New York, 1959. \$12.50.

RADIATION BIOLOGY OF VICIA FABA IN RELATION TO THE GENERAL PROBLEM. By John Read. 270 pp. Charles C Thomas, Springfield, Ill., 1959. \$10.50.

NUCLEAR REACTOR MATERIALS. By B. R. T. Frost and M. B. Waldron. 79 pp. Simmons-Boardman Publishing Corp., New York, 1959. Paperbound \$2.75.

PHYSICS QUESTIONS AND PROBLEMS: with answers. By Alexander Efron. 52 pp. John F. Rider Publisher, Inc., New York, 1959. Paperbound \$1.50.

THE ELECTRIC ARC. By J. M. Somerville. 150 pp. (Methuen & Co., Ltd., London) John Wiley & Sons, Inc., New York, 1959. \$2.50.

MASERS: Microwave Amplification and Oscillation by Stimulated Emission. By Gordon Troup. 168 pp. (Methuen & Co., Ltd., London) John Wiley & Sons, Inc., New York, 1959. \$2.75.

STRUCTURE AND PROPERTIES OF THIN FILMS: Conf. Proc. (Bolton Landing, N. Y., Sept. 1959). Edited by C. A. Neugebauer, J. B. Newkirk, D. A. Vermilyea. 561 pp. John Wiley & Sons, Inc., New York, 1959. \$15.00.

A BIBLIOGRAPHY ON HEAVY MESONS AND HYPERONS. By Bruno Vitale. 142 pp. North-Holland Publishing Co., Amsterdam, Holland, 1960. Paperbound \$2.50.

THE SCATTERING AND DIFFRACTION OF WAVES. By Ronold W. P. King and Tai Tsun Wu. 218 pp. Harvard U. Press, Cambridge, Mass., 1959. \$6.00.

NUCLEAR ELECTRONICS II, Sessions 6-9: Symp. Proc. (Paris, 1958). 378 pp. Internat'l Atomic Energy Agency, Vienna, Austria, 1959. US distributor, Nat'l Agency for Internat'l Publications, Inc., New York. Paperbound \$4.00.

INTERNATIONAL DIRECTORY OF RADIOISOTOPES. Vol. 1, Unprocessed & Processed Radioisotope Preparations & Special Radiation Sources. 264 pp. Internat'l Atomic Energy Agency, Vienna, Austria, 1959. US distributor, Nat'l Agency for Internat'l Publications, Inc., New York. Paperbound \$3.50.

MÉCANISMES ÉLECTRONIQUES EN CHIMIE ORGANIQUE. By Marc Julia. 99 pp. Gauthier-Villars, Paris, France, 1959. Paperbound \$3.45.

PROBLÈMES ET CALCULS DE CHIMIE GÉNÉRALE ET DE CRISTALLOCHIMIE. By R. Hocart and R. Kern. 212 pp. Gauthier-Villars, Paris, France, 1959. \$4.13.

PROJECT SHERWOOD: The US Program in Controlled Fusion. By Amasa S. Bishop. 227 pp. Doubleday Anchor Books, Garden City, New York, 1960. Paperbound \$1.25.

FUNDAMENTALS OF ELECTRONICS. By E. Norman Lurch. 631 pp. John Wiley & Sons, Inc., New York, 1960. \$8.25.

THEORY OF MECHANICAL VIBRATION. By Kin N. Tong. 348 pp. John Wiley & Sons, Inc., New York, 1960. \$9.75.

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