

Briefly Noted

Measurement of Low Temperatures. By C. T. Linder. Westinghouse Research Laboratories, East Pittsburgh, Pa., 1950.

The measurement of temperatures below 90°K, involving various thermometric devices and barometric corrections, is discussed in this monograph obtainable upon request from Westinghouse's Physics Department.

Tinplate Handbook. By W. E. Hoare. 31 pp. Tin Research Institute, Greenford, England, 1950.

This booklet summarizes the steelmaking and tinning processes used in the manufacture of hot-dipped and electrolytic tinplate and the factors determining suitability of different types of tinplate for various applications. The author heads the tinplate section of the Tin Research Institute in Greenford, Middlesex, England. The pamphlet can be obtained free of charge from the Tin Research Institute, Inc., 492 West Sixth Avenue, Columbus 1, Ohio.

Tables for Conversion of X-ray Diffraction Angles to Interplanar Spacing. 159 pp. National Bureau of Standards, Washington 25, D. C., 1950. \$1.75.

Number 10 in the Applied Mathematics Series, this NBS publication is intended as a timesaver for physicists, metallurgists, chemists, and others interested in diffraction patterns. The first six tables of the book give the interplanar spacing values in angstroms for the diffraction angles from 0° to 90° at intervals of 0.01°. These tables were calculated for X-ray targets of molybdenum, copper, nickel, cobalt, iron, and chromium. The last two tables contain spacing values for copper and iron for angles from 0° to 180° at intervals of 0.02°. The book is available from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

Proceedings of Symposium on Improved Quality Electronic Components. 236 pp. Trielectro Company, 1 Thomas Circle, Washington 5, D. C., 1950. \$3.50.

In May, 1950, a symposium was held in Washington with its theme the importance of high dependability and long service life in designing electronic equipment. It was sponsored by the American Institute of Electrical Engineers, the Institute of Radio Engineers, and the Radio Manufacturers Association in cooperation with the Defense Department and the National Bureau of Standards. The Proceedings include fifty-two papers presented at the Symposium.

Journal of the Franklin Institute. 125th Anniversary Issue. 208 pp. The Franklin Institute, Philadelphia, Pennsylvania, January, 1951. \$1.00.

A symposium of fifteen papers entitled "Science and Tomorrow" features the anniversary issue of the *Journal of the Franklin Institute*. These include reviews of: Astronomy, by Otto Struve; Chemistry, by Harold Urey; Mathematics, by Marston Morse; and Physics, by I. I. Rabi. Others represented in the symposium are J. C. Hunsaker, Oliver E. Buckley, Norbert Wiener, V. K. Zworykin, Wallace R. Brode, E. U. Condon, W. F. G. Swann, and Frederick Seitz.

Report on Standard Samples for Spectrochemical Analysis. Technical Publication No. 58B. 36 pp. American Society for Testing Materials, Philadelphia, 1950. \$1.25.

A total of 1077 entries of spectrochemical standard samples and pure substances is included in this report, compiled by Subcommittee IV on Standards and Pure Materials of ASTM Committee E-2 on Emission Spectroscopy. Extensive tables and data include available standard samples

on iron, steel, aluminum and its alloys, magnesium and its alloys, and on copper, zinc, lead, and tin alloys. The report is available from ASTM headquarters at 1916 Race Street, Philadelphia 3, Pa.

The Effects of Noise on Man. Supplement to *The Journal of Speech and Hearing Disorders*. By Karl D. Kryter. 95 pp. The American Speech and Hearing Association, Urbana, Illinois, 1950. \$1.00.

This three-part monograph reviews the effects of noise as factors in human behavior, auditory damage, and speech communication. A bibliography on methods of noise measurement and procedures for its reduction is added as an appendix. The study was completed under an ONR contract with the Central Institute for the Deaf. Copies may be secured from George A. Kopp, Business Manager, *Journal of Speech and Hearing Disorders*, Wayne University, Detroit, Michigan.

Books Received

MATHEMATICS OF RELATIVITY. By G. Y. Rainich. 173 pp. John Wiley & Sons, Inc., New York, 1950. \$3.50.

HANDBOOK OF EXPERIMENTAL STRESS ANALYSIS. Edited by M. Hetényi. 1077 pp. John Wiley and Sons, Inc., New York, 1950. \$15.00.

INTRODUCTION TO ELECTRICITY AND OPTICS (New 2nd Edition). By Nathaniel H. Frank. 440 pp. McGraw-Hill Book Company, New York, 1950. \$5.00.

THE PHILOSOPHY OF MATHEMATICS. By Edward A. Maziar. 286 pp. The Philosophical Library, New York, 1950. \$4.00.

MECHANICS VIA THE CALCULUS (3rd Revised and Enlarged Edition). By P. W. Norris and W. Seymour Legge. 367 pp. Dover Publications, Inc., New York, 1950. \$3.95.

DIE PHOTOGRAMMETRIE IN IHRER ANWENDUNG AUF NICHT-TOPOGRAPHISCHEN GEBIETEN. By Otto Lacmann. 220 pp. S. Hirzel Verlag, Leipzig, Germany, 1950. DM 24.

RADIOACTIVITY AND NUCLEAR PHYSICS (Second Edition). By James M. Cork. 415 pp. D. Van Nostrand Company, Inc., New York, 1950. \$5.00.

ELEMENTS OF ORDINARY DIFFERENTIAL EQUATIONS. By Michael Golomb and Merrill Shanks. 365 pp. McGraw-Hill Book Company, Inc. International Series in Pure and Applied Mathematics, New York, 1950. \$3.50.

DAS MOLEKÜL UND DER AUFBAU DER MATERIE. Edited by K. W. Wagner. 319 pp. Friedr. Vieweg and Sohn, Braunschweig, Germany, 1949.

ELECTRICITY AND MAGNETISM (3rd Edition). By Norman E. Gilbert. 569 pp. The Macmillan Company, New York, 1950. \$5.00.

STRUCTURAL CARBOHYDRATE CHEMISTRY. By E. G. V. Percival. 246 pp. Prentice-Hall, Inc., New York, 1950. \$5.50.

STATIC AND DYNAMIC ELECTRICITY (Second Edition). By William R. Smythe. 616 pp. McGraw-Hill Book Company, Inc., New York, 1950. \$8.50.

CHEMISTRY, VISUALIZED AND APPLIED. By Armand Joseph Courchaine. 687 pp. G. P. Putnam's Sons, New York, 1950. \$5.50.

THE ELECTRONIC ENGINEERING MASTER INDEX. A subject index to the contents of electronic and allied engineering publications printed throughout the world from January through December, 1949. 296 pp. Electronics Research Publishing Company, Inc., New York, 1950. \$17.50.