

Emphasis has been placed upon the development made in organic chemistry since the World War, many modern processes being described. There is a goodly assortment of questions and problems and also, at the end of several chapters, references are given for outside reading. However, some of these references would be rather heavy reading for a student in elementary organic chemistry, *e. g.*, "Proteins and the Theory of Colloidal Behavior" by Loeb, "The Physical Chemistry of Proteins" by Robertson, and "Recent Advances in Organic Chemistry" by Stewart.

On the whole, this book should prove to be a usable and interesting text, especially for those teachers interested in the "Atomic Linkage" presentation of organic chemistry.

BEN B. CORSON

Handbuch der biologischen Arbeitsmethoden. (Handbook of Biological Methods.) Edited by Professor Dr. EMIL ABDERHALDEN. Section I. Chemical Methods, Part 2, 2d half, Number 6. *Die Verseifung.* (Saponification.) By FRANZ BACHÉR, Rostock. Urban and Schwarzenberg, Friedrichstrasse 105b, Berlin N 24, Germany, 1930. 294 pp. 17.5 × 25.5 cm. Price, M. 16.

The present number of Abderhalden's comprehensive "handbook" deals with the saponification of all common types of derivatives of organic acids: anhydrides, chlorides, esters, lactones, nitriles, amides and anilides. It is by far the most extensive and detailed treatment of the subject that is available. By discussion of underlying principles and by very many carefully selected examples the author indicates the most promising methods for solving difficult problems in saponification, like the partial hydrolysis of derivatives of polybasic acids or of polyacid alcohols; the saponification of optically active esters and amides, of esters and nitriles of β -ketonic acids and other similarly unstable compounds, and of substances in which there is a great hindrance to hydrolysis.

Organic chemists as well as the biochemists for whom, presumably, it was primarily prepared will find in this excellent treatise much time and patience saving material.

E. P. KOHLER

BOOKS RECEIVED

December 15, 1930-January 31, 1931

- WALTER L. BADGER AND WARREN L. McCABE. "Elements of Chemical Engineering." Introduction by Arthur D. Little. McGraw-Hill Book Company, Inc., New York. 625 pp. \$5.00.
- J. F. T. BERLINER. "Potash Bibliography to 1928 (Annotated)." Review and Compilation of Technical Literature on Potash Salts (Including the Alunites) and their Foreign Occurrences. U. S. Department of Commerce, Bureau of Mines, Bulletin 327. Government Printing Office, Washington, D. C. From Superintendent of Documents. 578 pp. \$0.90.

- GÜNTHER BUGGE. "Das Buch der grossen Chemiker. Von Liebig bis Arrhenius." Vol. II. Verlag Chemie, G. m. b. H., Berlin W 10. 559 pp. M. 32.
- A. FREDERICK COLLINS. "Experimental Chemistry, being a Series of Simple and Spectacular Experiments in Chemistry, together with Some Home-made Chemical Apparatus." Illustrated by the Author. D. Appleton and Company, New York. 276 pp. \$2.00.
- P. A. M. DIRAC. "The Principles of Quantum Mechanics." The Oxford University Press, 114 Fifth Avenue, New York. 257 pp.
- K. FAJANS AND J. WÜST. "A Textbook of Practical Physical Chemistry." Translated from the German by Bryan Topley. Preface by F. G. Donnan. E. P. Dutton, Inc., 286-302 Fourth Ave., New York. 233 pp. \$4.95.
- FRITZ FEIGL. "Qualitative Analyse mit Hilfe von Tüpfelreaktionen. Theoretische Grundlagen und praktische Ausführung." Akademische Verlagsgesellschaft m. b. H., Leipzig. 387 pp. RM. 26.40, unbound; Rm. 28, bound.
- "GMELINS HANDBUCH DER ANORGANISCHEN CHEMIE." Eighth Edition. System-Number 59: Eisen. Teil A, Lieferung 3. Herausgegeben von der Deutschen Chemischen Gesellschaft. Verlag Chemie, G. m. b. H., Berlin W 10. 274 pp. RM. 32 to subscribers.
- WO. OSTWALD, Editor. "Organische Chemie und Kolloidchemie." Sonderheft der Kolloid-Zeitschrift. Band LIII, Heft 1. Haupt-vorträge gehalten auf der VIII Hauptversammlung der Kolloid-Gesellschaft im Frankfurt a. M., vom 9-11 Juni, 1930. Verlag von Theodor Steinkopff, Residenzstrasse 32, Dresden-Blasewitz. 124 pp. RM. 8, unbound.
- K. A. REDLICH, J. C. BREINL AND H. TROPSCH, Editors. "Entstehung, Veredlung und Verwertung der Kohle." Vorträge gehalten an der Technischen Hochschule in Prag. Verlag von Gebrüder Borntraeger, W 35 Schöneberger Ufer 12a, Berlin. 359 pp. M. 30, unbound; M. 33, bound.
- FRITZ REICHE. "The Quantum Theory." Revised Edition. Translated by H. S. Hatfield and Henry L. Brose. E. P. Dutton and Co., Inc., 286-302 Fourth Ave., New York. 218 pp. \$2.10.
- HUGH S. TAYLOR, Editor. "A Treatise on Physical Chemistry. A Coöperative Effort by a Group of Physical Chemists." D. Van Nostrand Company, Inc., 250 Fourth Avenue, New York. Two volumes, illustrated. Vol. I, 852 pp. Vol. II, 914 pp. Price, set, \$15.00.
- MAXIMILIAN TOCH. "The Protection and Decoration of Concrete." D. Van Nostrand Co., Inc., 250 Fourth Ave., New York. 54 pp. \$2.00.
- W. EWART WILLIAMS. "Applications of Interferometry." Preface by O. W. Richardson. E. P. Dutton and Co., Inc., 286-302 Fourth Ave., New York. 104 pp. \$0.85.
- MIHAI ZAPAN. Thèses, présentées a la Faculté des Sciences de l'Université de Paris, pour obtenir le Grade de Docteur es-Sciences Physiques. "Sur la chloruration et la bromuration catalytique des gaz riches en hydrocarbures méthaniques." Impressions Industrielles (G. de Zerman), 25 Rue Turgat, Paris. 100 pp.
- "Abridged Scientific Publications from the Kodak Research Laboratories." Volume VIII, 1929. Published by the Eastman Kodak Company, Rochester, New York. 271 pp.

- "A. S. T. M. Standards, 1930." Issued triennially. Published by the American Society for Testing Materials, 1315 Spruce St., Philadelphia, Pa. Part I, Metals, 1000 pp. Part II, Non-Metallic Materials, 1214 pp. Each part, cloth, \$7.50; both parts, \$14.00.
- "Cellulose." February, 1931, Announcement Issue. Vol. 1, No. 1. The Cellulose Publishing Co., Publishers, 114 East 32d St., New York. 42 pp. \$3.00 a year; 35 cents a copy.
- "59 Vorträge (mit Diskussionen) darunter 13 zusammenfassende Vorträge über das Hauptthema: Spektroskopie und Molekelbau." XXXV Hauptversammlung der Deutschen Bunsen-Gesellschaft für Angewandte Physikalische Chemie E. V., vom 28 Mai bis 1 Juni, 1930, zu Heidelberg. Verlag Chemie G. m. b. H., Berlin W 10. 259 pp. RM. 12, unbound.
- I. G. Farbenindustrie Aktiengesellschaft. "Veröffentlichungen des Wissenschaftlichen Zentral-Laboratoriums der Photographischen Abteilung—AGFA." Volume I. Verlag von S. Hirzel, Königstrasse 2, Leipzig, Germany. 155 pp. RM. 10.