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## NEW BOOKS

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**An Introduction to Quantitative Chemical Analysis.** By WARREN C. VOSBURGH, Duke University. Henry Holt and Co., 257 Fourth Avenue, New York, N. Y., 1941. viii + 356 pp. 27 figs. 14 × 22 cm. Price, \$2.75.

Teachers of quantitative analysis usually decide first whether to present the subject by lectures or use a textbook, and then whether to advise an introductory book or a larger treatise of the reference variety, this latter decision being rendered more difficult by having to match the type of course offered to the available texts. Professor Vosburgh's book has developed from the lithoprinted stage and is intended for use in a half-year course. The topics considered are mostly the usual fundamentals (theory and experiment being interspersed): balance and weighing, chemical calculations, gravimetric methods in general, chloride determination with silver, iron as oxide, nickel in salt and ore, barium sulfate, magnesium pyrophosphate, solutions and their properties, specific gravity, precipitation theory, mechanism and solubility product, quantitative errors, volumetric analysis in general, standardization of solutions, burets, pipets, flasks and their calibration, preparation of acid and base solutions, various typical acid-base experiments, hydrogen ion concentration and its measurement, titration and indicator theory, precipitation titration, oxidation-reduction titrations in general, permanganate, Jones reductor, ceric sulfate, iodometry, theory of voltaic cells and oxidation potentials, potentiometric titrations, literature of analytical chemistry, logarithms and their use. The theory material is adequately presented in simple form and language and the experiments are described in sufficient detail but briefly and concisely (both with very few errors of fact or typography to mar a well made and excellent appearing book). Including both old-line experiments and some newer ones, the book will give a class a very busy and profitable half year.

ALLEN D. BLISS

**Organic Chemistry.** By NICHOLAS D. CHERONIS, Chicago City Colleges. Thomas Y. Crowell Company, 393 Fourth Avenue, New York, N. Y., 1941. xv + 728 pp. 15.5 × 23.5 cm. Price, \$4.00.

This is a good book—a very good book. The author has thrown overboard the conventional approaches to the subject and treats open-chain and cyclic compounds together. The method of instruction approved by that master, Remsen, is employed and, after a very brief introduction in which the field is reviewed, the subject is developed in detail in a second presentation. The treatment is modern, but not overwhelmingly so. The author has shown great courage in his readiness to assume that students possess some intelligence and in his willingness to omit certain things. Some authors write for other authors' approval; Cheronis writes for his students. The presentation is

enthusiastic, but sound, and refreshingly independent. Pertinent physical chemistry is nicely integrated with material given in the usual year course in elementary organic chemistry. There are numerous errors in English, but except for a purist they do not detract seriously from the volume. "The proof of the pudding is in the eating..."; this volume tastes good; students, and at least one instructor, like it. It is strongly recommended for serious consideration.

G. ALBERT HILL

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## BOOKS RECEIVED

September 10, 1941–October 10, 1941

- RICHARD M. BARRER. "Diffusion in and through Solids." The Macmillan Company, 60 Fifth Ave., New York, N. Y. 464 pp. \$6.50.
- H. BENNETT. "The Chemical Formulary." Vol. V. Chemical Publishing Co., Inc., Brooklyn, N. Y. 676 pp. \$6.00.
- P. W. BRIDGMAN. "The Nature of Thermodynamics." Harvard University Press, Cambridge, Massachusetts. 229 pp. \$3.50.
- F. C. CHAMPION. "University Physics." Part I, General Physics; Part II, Heat; and Part III, Light. Interscience Publishers, Inc., 215 Fourth Ave., New York, N. Y., Part I, 157 pp.; Part II, 148 pp.; Part III, 172 pp. \$1.50 (each).
- FARRINGTON DANIELS, J. HOWARD MATHEWS and JOHN WARREN WILLIAMS. "Experimental Physical Chemistry." Third Edition. McGraw-Hill Book Company, Inc., 330 West 42nd Street, New York, N. Y. 460 pp. \$3.50.
- REYNOLD C. FUSON, RALPH CONNOR, CHARLES C. PRICE and H. E. SNYDER. "A Brief Course in Organic Chemistry." John Wiley and Sons, Inc., 440 Fourth Ave., New York, N. Y. 248 pp. \$2.50.
- WILLIAM T. HALL. "Textbook of Quantitative Analysis." Third Edition. John Wiley and Sons, Inc., 440 Fourth Ave., New York, N. Y. 364 pp. \$3.00.
- JOHN W. HASSLER. "Active Carbon, the Modern Purifier." Industrial Chemical Sales Division, West Virginia Pulp and Paper Company, 230 Park Avenue, New York, N. Y. 159 pp. Free to scientific, technical and educational organizations, as well as to consulting and industrial research laboratories.
- FREDERICK C. KOCH. "Practical Methods in Biochemistry." Third Edition (Revised). The Williams and Wilkins Company, Baltimore, Maryland. 314 pp. \$2.25.