

give any rational discussion of the theory of indicators in acidimetry. Since Ostwald's discussion of the subject has become so easily accessible, any book on volumetric analysis which does not, at least, give an outline of the principles involved, must be considered as incomplete.

W. A. NOYES.

COMMERCIAL ORGANIC ANALYSIS. VOL. I. BY ALFRED H. ALLEN, F.I.C., F.C.S. With revisions and addenda by the author and HENRY LEFFMANN, M.A., M.D. Third edition. Philadelphia: P. Blakiston's Son & Co. 8 vo. 557 pp. Price \$4.50.

This new and thoroughly revised edition of Vol. I of Mr. Allen's valuable work will be heartily welcomed by chemists everywhere. The second edition was published in 1885, and the present volume had become a necessity in order that it might rank in completeness with the later volumes of the work.

The subject-matter has been brought well up to date by material furnished by both Mr. Allen and Dr. Leffmann. Numerous typographical errors in the second edition have been corrected and the index has been much improved by very considerable enlargement. The arrangement of the subject-matter remains essentially the same as in the second edition which was eminently satisfactory. The methods of the American Association of Official Agricultural Chemists have been included, very properly, in the text.

The following subjects have had much valuable matter added to them; *viz.*, Specific Gravity, Kjeldahl Process, Proteids of Wheat Flour, Vinegar, Brewing Sugars, Malt Substitutes, Hop Substitutes, Secondary Constituents in Spirits, Formaldehyde, Methyl Alcohol, Acetone, Fusel Oil, Argol, Starch, Glucose, Invert Sugar, Lactose, and Wine. The addenda treat of "Detection of Gallisin in Beer," "Invert Sugar," "Outline Process for the Detection of Bitter Principles in Beer," "Method for Estimating Galactan," and the "Determination of Pentosans by Means of Phloroglucol." WM. L. DUDLEY.

LEHRBUCH DER ANORGANISCHEN CHEMIE. VON PROF. DR. H. ERDMANN in Halle. Mit 276 abbildungen und vier farbigen Tafeln. Braunschweig: Friedrich Viewig und Sohn. 1898. xxvi + 756 pp. Price, M. 18.

The author states in his preface that he has taken as his model in the making up of this volume the well-known "Lehrbuch der Chemie" of Gorup-Besanez, and that he would have