

BOOK NOTICES AND REVIEWS.

Recent Advances in Volumetric Chemical Analysis, by H. B. KELLOG, formerly Director of Laboratories, Amp. Research Laboratories, Corona, New York. 200 pages, loose leaf form, 6³/₄" x 3³/₄". Lefax, Inc., Philadelphia, Pa., Publishers. Price: Black faxide ring binder, \$3.00; brown Castilian paper cover, \$2.00.

Rapid and accurate methods are usually desired by the analyst in arriving at conclusions either in commercial or experimental work. For these reasons the author has given consideration to volumetric analysis exclusively. Most reference books give more attention to gravimetric analysis and seem to neglect rapid end-point titration methods. Carefully selected methods that have proved of practical value to the analytical and research chemist have been compiled. Sufficient details are given to enable one with an elementary knowledge of analytical procedures to follow directions. Also it offers helpful suggestions in the selections of convenient and efficient methods for rapid and accurate analysis.

The author by referring to varied sources of modern literature has brought together such applications that are more readily available for use. An added help to the analyst has been given by listing the agents necessary for each individual analysis after the method of procedure. In some cases the author has offered modification where this has been found desirable. The details differ somewhat from those given by the author originally presenting the procedure. The subject index includes: Acidimetric Indicators, Adsorption, Ceric Sulfate Solutions, New Reagents, Reductors, Acetone, Aluminum, Antimony, Arsenic, Borate, Cadmium, Calcium, Carbon Monoxide, Cerium, Chloride, Chromium, Cobalt, Copper, Cyanide, Ferricyanide, Ferrocyanide, Fluoride, Formaldehyde, Halides, Hydrogen Peroxide, Hyposulfite, Iodide, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Nitrate, Nitrite, Phenol, Phosphorus, Potassium, Selenium, Silver, Sodium, Sugars, Sulfur, Tellurium, Tin, Vanadium, Zinc.

Preparation and methods of standardizing the more common solutions used in volumetric analysis are given along with the volumetric factors based on 1937 International atomic weights.—EMERSON C. BEELER.

A College Textbook of Pharmaceutical Botany (sixth edition), by H. W. YOUNGKEN, Ph.M., Ph.D., Sc.D., Professor of Botany and Pharmacognosy, Massachusetts College of Pharmacy; Member Committee of Revision, U. S. Pharmacopœia; Botanical Editor, U. S. Dispensatory, etc.

A thoroughly modern textbook with pharmaceutical and medical applications, especially adapted for students of Pharmacy and economic Botany and as a reference for pharmacists, chemists and students in structural and systematic Botany. There are chapters on: Scope and Importance of Botany; General Characteristics of Plants; The Living Cell; Life History of the Male Fern; Non-Proto-plasmic Cell Contents; Plant Tissues; The Root; The Bud; The Stem; The Leaf; The Inflorescence; The Flower; The Fruit; the Seed; Classification and Naming of Plants; The Thallophytes; Fungi; Lichens; Bryophytes; Pteridophytes; Spermatophytes; Monocotyledons; Dicotyledons; Ecology; Genetics and Evolution.

The book contains 507 illustrations, Frontispiece, Glossary and Bibliography. There are 792 pages, it is bound in washable fabric, and the price is \$4.75. Publishers, P. Blakiston's Son & Co., Inc., 1012 Walnut St., Philadelphia, Pa.

Chemistry of the Proteins (second edition), by DOROTHY JORDAN LLOYD, M.A., D.Sc., F.I.C., Director British Leather Manufacturers' Research Association; and Agnes Shore, B.Sc., A.I.C., Demonstrator, Physiology Department, London School of Medicine for Women. Introduction by Sir. F. G. Hopkins, O.M., D.Sc. (University of Cambridge).

The book contains a synthesis of knowledge on proteins covering every branch of science bearing upon the subject. Both the constitutional and physical phases of proteins are treated from the chemical standpoint. There are chapters on: Nature and Constitution of the Proteins; Different Classes of the Proteins; Methods of Protein Analysis; Individuality of Proteins; Biochemistry of Proteins and Amino Acids; Proteolytic Enzymes; Linkages in Protein Molecule; Architecture of Protein Molecule; Combination of Proteins with Acids and Alkalies; Properties of Protein Solutions; Absorption and Loss of Water by Gels and Tissues; Specific Effects of Salts on