

but each chapter begins with an excellent table of contents. The binding of the book is fairly good; the print is readable; and the quality of the paper is good.

The book is addressed to research workers and graduate students, and it will be highly useful as a reference to organic chemists, biochemists, physical organic chemists, analytical chemists, and (to a lesser extent) to physical pharmacists. It is recommended for the research library, with the hope that the entire set of "Chemistry of Functional Groups" will be of the same quality.

Reviewed by Joseph G. Cannon
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Nonexistent Compounds: Compounds of Low Stability. By W. E. DASENT. Marcel Dekker, Inc., 95 Madison Ave., New York, N. Y. 10016, 1965. ix + 182 pp. 16 × 23.5 cm. Price \$8.50.

To anyone concerned with preparing or using stable compounds, the unstable ones are of interest, if only for the purpose of avoidance. And, of course, there are many shades of gray between the possible and impossible.

This little book has taken as its theme those inorganic compounds that are on the verge of stability, usually arranged in such classes that some of the members are stable and some are not. The compounds are discussed in terms of the reasons for their variations in stability.

The book opens with a chapter on various general approaches to stability, e.g., valence and structure, thermodynamics, tendencies in chain and multiple bond formation. A chapter illustrating each of several types of stability then follows. The semi-stable compounds of nitrogen, sulfur, phosphorus, and silicon have the most representatives, but there are illustrations from almost all the elements except the electropositive metals and the two rare earth series. There is a ten page discussion of compounds of the noble gases. It is difficult to give a typical example of the types of compounds included, so varied are they. The purely ionic compounds are specifically excluded.

Explanations and discussions are well grounded theoretically and are well documented. There are extensive tabulations of energetic data. The author leans heavily on Pauling's "Nature of the Chemical Bond" as concerns valence and bond energies, and writes generally in the same spirit as Pauling.

The book is not a mere curiosity, as suggested by the facetious title. It will find its best use as a rich source of illustrative material for the principles involved in the stability of inorganic and metal-organic chemistry. Some readers will be disappointed that it contains little of direct value for the organic chemist. A book in that subject would have a larger audience, and its point of view would be much different. Of course, it would have a different author.

Reviewed by L. Dallas Tuck
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Remington's Pharmaceutical Sciences. XIII ed. Editor-in-Chief ERIC W. MARTIN. Mack Publishing Co., Easton, Pa., 1965. xii + 1954 pp. 21 × 29 cm. Price \$23.50

In keeping with the increased emphasis on the scientific basis of pharmacy, this classic has changed its title—from "Remington's Practice of Pharmacy" to "Remington's Pharmaceutical Sciences." The basic outline of earlier editions has been followed; however, many chapters have been revised and several new chapters have been added to reflect the latest developments in analytical and manufacturing procedures. The greatest amount of new material has been in the field of physical pharmacy—four areas are covered in new individual chapters—biopharmaceutics, quantum theory, reaction kinetics, and thermodynamics. A chapter on plastics has been added to the manufacturing section and includes the more recent developments in the nature, uses, and testing of plastics used in medicine.

Drugs are discussed individually as in previous editions. The use statements might more properly be called a therapeutic summary; uses are given, of course, but also included in the discussion are action, special advantages and/or disadvantages, side effects, and cautions.

Tests and assays for official (U.S.P. and N.F.) items are no longer included, since the respective compendia may be consulted for this information.

The physical make-up of the book is excellent; type size and column width make it easy to read, and it is well indexed.

The Remington is up to date, with the changes in the N.F. and U.S.P. being reflected.

It is difficult to review a book so familiar to all pharmacists and already of proved value. The summation which appears on the title page seems most appropriate. "Remington's Pharmaceutical Sciences" is: "A treatise on the manufacturing, standardizing, and dispensing of pharmaceutical products with biological and chemical properties and tests, assays, uses, and doses; also a guide to the legal obligations of the pharmacist and the professional services rendered in helping to maintain community health. A textbook and reference guide for pharmacists, physicians, and other medical scientists."

Encyclopedia of Industrial Chemical Analysis. Vol. 1, General Techniques A-E. Edited by F. D. SNELL and C. L. HILTON. Interscience Publishers, a div. of John Wiley & Sons., Inc., 605 Third Ave., New York, N. Y. 10016, 1966. xv + 763 pp. 18.5 × 26 cm. Price \$35.00 per copy with subscription. \$45.00 per single copy.

The structure of the chemical industry, the nature of the chemical products, and the methods and techniques of analysis have undergone radical changes in recent years. As a result, a comprehensive view of industrial analytical chemistry was felt to be a desirable undertaking. This is the first in a series of volumes to fulfill that need. Methods and techniques used throughout the world for the analysis of raw materials, intermediate, and finished products, as well as evaluation of the finished product for its intended use, will be included. The Encyclopedia will be presented in

two parts—General Techniques and Analysis of Specific Materials. General techniques is considered as an introduction to the main work. In three volumes, general methodology applicable to a large number of products will be covered and step-by-step procedures using typical equipment are included. A few of the many items which appear in this first volume (A–E) are: absorption and emission spectroscopy, acid–base titrations, chromatography, coulometry and coulometric titrations, electrical methods of analysis, and evaluation of analytical data.

Journal of Macromolecular Chemistry. Vol. 1, No. 1, January 1966. Edited by GEORGE E. HAM. Marcel Dekker, Inc., 95 Madison Ave., New York, N. Y., 10016, 1966. 196 pp. 15 × 22.5 cm. Price \$35.00 per year (4 issues).

This is the first issue of this new journal which is to be published quarterly. It is the first new journal in the polymer field in the United States in the last 25 years. The editorial board is representative of the U. S., Canada, Japan, Italy, Germany, England, France, and Switzerland with members from both industry and education. A sample of the contents of the first issue is provided by four arbitrarily picked papers from the twelve included: (a) Interpretation of the Microstructure of Polyisoprene and Polybutadiene Obtained in Anionic Polymerization; (b) Molecular Structure and Configuration of Polymers: NMR Spectra of Poly(Alkylene Oxide) Terminal Groups; (c) Sequence Reversibility in the Copolymerization Process; and (d) Particle Flocculation During Emulsion Film Formation.

NOTICES

Introduction to Modern Biochemistry. 2nd ed. By P. KARLSON. Translated by CHARLES H. DOERING. Academic Press Inc., 111 Fifth Ave., New York, N. Y., 10003, 1965. xx + 436 pp. 16.5 × 25 cm. Price \$11.

Louis Pasteur: The Germ Killer. By JOHN MANN. The Macmillan Co., 60 Fifth Ave., New York 11, N. Y., 1966. 40 pp. 18 × 23.5 cm. Price \$2.95.

Periodontal Disease in Adults, United States, 1960–1962. National Center for Health Statistics. Vital and Health Statistics. (PHS Publication No. 1000, Series 11, No. 12.) U. S. Department of Health, Education, and Welfare, Washington, D. C., 1965. For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C., 20402. 30 pp. 19.5 × 26 cm. Price 35 cents, paperbound.

Institutions for the Aged and Chronically Ill, United States, April–June 1963. (PHS Publication No. 1000, Series 12, No. 1.) U. S. Department of Health, Education, and Welfare, Washington, D. C., 1965. For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C., 20402. 46 pp. 19.5 × 25.5 cm. Price 35 cents, paperbound.

The Application of Neuroleptanalgesia in Anesthetic and Other Practice. Proceedings of the First British Symposium. Edited by N. W. SHEPHARD. Pergamon Press, Inc., 44–01 21st St., Long Island City, New York, N. Y. 11101, 1965. ix + 96 pp. 15.5 × 23.5 cm. Price \$8.50.

Newer Redox Titrants. By A. BERKA, J. VULTERIN, and J. ZYKA. Translated by H. WEISZ. International series of monographs in analytical chemistry. Vol. 22. Pergamon Press, Inc., 44–01 21st St., Long Island City, New York, N. Y. 11101, 1965. ix + 246 pp. 14 × 22 cm. Price \$10.

Gonadotropins: Physicochemical and Immunological Properties. Ciba Foundation Study Group. Edited by G. E. W. WOLSTENHOLME and JULIE KNIGHT. Little, Brown and Co., 34 Beacon St., Boston, Mass. 02106, 1965. 125 pp. 12.5 × 19 cm. Price \$3.50.

Les Cytopénies Médicamenteuses. Par JEAN BERNARD, JEAN DAUSSET, et COLLETTE MAGIS. Masson & Cie, Éditeurs, 120 Boulevard Saint-Germain, Paris 6e, France, 1965. 298 pp. 18.5 × 24.5 cm. Price 98 F. Paperbound.

Oxidases and Related Redox Systems. Vols. 1 and 2. Proceedings of an International Symposium held in Amherst, Mass., July 15–19, 1964. Edited by T. E. KING, H. S. MASON, and M. MORRISON. John Wiley & Sons, Inc., 605 Third Ave., New York, N. Y. 10016, 1965. 1144 pp. 15 × 23.5 cm. Price \$32.50 (set).

Progress in Biophysics and Molecular Biology. Vol. 16. Edited by J. A. V. BUTLER and H. E. HUXLEY. Pergamon Press, Inc., 44–01, 21st St., Long Island City, N. Y. 11101, 1966. 276 pp. 16 × 25.5 cm. Price \$13.00.

Biochemical Studies of Antimicrobial Drugs. Edited by B. A. NEWTON and P. E. REYNOLDS. The Sixteenth Symposium of the Society for General Microbiology held at the Royal Institution, London, April 1966. Cambridge University Press, 32 E. 57th St., New York, N. Y. 10022, 1966. x + 349 pp. 16 × 25 cm. Price \$11.50.

Endogenous Substances Affecting the Myometrium. Edited by V. R. PICKLES and R. J. FITZPATRICK. Memoirs of the Society for Endocrinology, No. 14. Cambridge University Press, 32 E. 57th St., New York, N. Y. 10022, 1966. xi + 271 pp. 16 × 25.5 cm. Price \$13.50.

Guide to the Analysis of Pesticide Residues. Vols. I and II. Prepared by H. P. BURCHFIELD and E. E. JOHNSON for U.S. Department of Health, Education, and Welfare, under contract with Southwest Research Institute, San Antonio, Texas 78206, 1965. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. 25 × 28.5 cm. Price \$12.75 in set of 2 vols. only (in binders).