

Effects of anabolic agents in man. Papers presented and the discussions which followed are reported under the pertinent topic heading. Subject and author indexes are included for ready access to items of particular interest to the reader.

*Chemistry of Carbon Compounds*. Vol. 5. Edited by E. H. RODD. American Elsevier Publishing Co., Inc., 52 Vanderbilt Ave., New York 17, N. Y., 1962. xv + 912 pp. 15 × 22 cm. Price \$29 single; \$26 series.

This concluding volume in this series furnishes a general index to the entire five volumes and supplements, in part, selected topics in which there have been conspicuous advance during the decade which has elapsed since the work was started. The general index covers 676 pages. Topics included in this volume are The preparation and use of isotopically labelled organic compounds, Natural acetylenic compounds, Developments in carbohydrate chemistry, and The structure of proteins.

*Tables of Random Permutations*. By LINCOLN E. MOSES and ROBERT V. OAKFORD. Stanford University Press, Stanford, Calif., 1963. 233 pp. 15.5 × 23.5 cm. Price \$7.

Tables of random permutations of 9, 16, 20, 30, 50, 100, 200, 500, and 1000 integers are provided. The source was the RAND deck of a million random digits; the method utilized to generate permutations from the random integers is described in detail in an appendix. The authors point out that for many common uses in the biological, physical, and social sciences and in engineering, tables of random numbers are less useful than tables of random permutations.

*Practical Pharmaceutical Chemistry*. By A. H. BECKETT and J. B. STENLAKE. The Athlone Press, University of London, 2 Gower Street, London, S.C. 1, 1962. viii + 378 pp. 15.5 × 25 cm. Price \$10.10.

As a student text in quantitative pharmaceutical chemistry, this book covers a wide variety of methods for the control of chemical purity in medicinal substances. The classical methods of volumetric and gravimetric analysis and limit tests for trace impurities are included but in addition, the authors have included complexometric, electrometric, and conductometric titration techniques, titration in nonaqueous media, aquametry, and the use of ion-exchange resins in analysis. Instrumental methods based on absorptiometry, spectrophotometry, fluorimetry, and polarography are also included. The first three chapters cover chemical purity and its control and the technique and theoretical basis of quantitative analysis. Along with chapters on specific techniques, the book also includes a chapter on the theory of absorption spectra.

*Infrared, Ultraviolet, and Visible Absorption Spectra of Some USP and NF Reference Standards and Their Derivatives*. By ALMA L. HAYDEN, OSCAR R. SAMMUL, GEORGE B. SELZER, and JONAS CAROL. Association of Official Agricultural Chemists, Box 540, Benjamin Franklin Station,

Washington 4, D. C., 1962. 104 pp. 17.5 × 25.5 cm. Price \$2.

Infrared, ultraviolet, and visible absorption spectra of 175 USP and NF Reference Standards are illustrated, together with structural formulas and recording data. Infrared absorbance spectra of 32 organic nitrogenous bases derived from some of these standards are also presented. Text and tables describe, in considerable detail, sample handling and recording techniques.

*Recent Developments in the Sterilization of Surgical Materials*. A Symposium. The Pharmaceutical Press, 17 Bloomsbury Square, London, W.C. 1, 1961. xi + 232 pp. 15 × 23 cm. Paperbound. Price \$7.

This paperbound volume reports a symposium on recent developments in the sterilization of surgical materials held at the University of London in April of 1961 and consists of papers presented and discussions during the symposium. The report covers sterilization by ionizing radiation, gaseous methods of sterilization, and sterility tests. It is indexed by subject.

*The Chemistry and Manufacture of Cosmetics*. Vol. 2. By MAISON G. DENAVARRE. D. Van Nostrand Co., Inc., 120 Alexander St., Princeton, N. J., 1962. xiv + 413 pp. 15.5 × 23.5 cm. Price \$12.50.

Included in this second volume of a four volume set is extensive coverage of the materials used or of potential use in cosmetics manufacture. Each class of material is arranged alphabetically and fully described to include its chemistry, toxicity, commercial materials, cosmetic uses, germicidal properties, methods of manufacture, emulsifying properties, hazards, and sources. Essential formulations are also included. When the four volumes of this second edition are completed, the cosmetic chemist will have a ready reference to assist him in his work.

*Staining, Practical and Theoretical*. By EDWARD GURR. The Williams and Wilkins Co., 428 East Preston St., Baltimore 2, Md., 1962. xii + 631 pp. 15 × 22 cm. Price \$16.

The author's stated objectives in writing this book are to present new ideas regarding the mechanism and theory of staining reactions and to bring together, in concise form, a large number of staining procedures previously scattered throughout the literature. He has succeeded in providing an encyclopedic reference volume. Some 700 stain formulas and 300 procedures are included. The first section of the book deals with theoretical considerations and the second section provides procedures in monograph form, frequently with a bold-faced description of the use of the particular stain. A third section contains the formulas for the stains, fixatives, and tables needed in this work. An index for rapid reference completes the book.

*Readings in Pharmacology*. Edited by LOUIS SHUSTER. Little, Brown and Co., 34 Beacon St., Boston 6, Mass., 1962. xii + 548 pp. 15.5 × 23.5 cm. Paperbound. Price \$5.50.

This paperbound volume presents a representative sampling of approaches and techniques that have been applied to some of the basic problems in pharmacology and also gives the reader some insight into the setting of the work itself. As the foreword to the book notes, each stage of literary distillation away from the original article leaves something behind—the technical detail that may have been crucial, the personal bias, the loose ends which usually get covered up in the review, and the surprises and disappointments of experimentation. To implement the objective, the author has selected papers from 1785 to 1957, 19 in all. For the student, this book will make a good tool for orientation purposes and for practicing pharmacologists, a brief and refreshing interlude placing current work in perspective.

*Accepted Dental Remedies 1963.* 28th ed. Council on Dental Therapeutics of the American Dental Association. American Dental Association, 222 E. Superior St., Chicago 11, Ill., 1963. xiv + 212 pp. 15.5 × 22.5 cm. Paperbound. Price \$3.

This current issue of ADR contains expanded sections on dental therapeutics and particular attention has been directed to recent reports of the occurrence of toxic reactions and other current scientific information in the revision of its monographs. A seven-page section is devoted to prescription writing in dental practice which explains the desirability of prescription writing in dental practice and includes basic information on proper prescribing.

Another chapter discusses the prevention and treatment of emergencies in the dental office and another discusses pharmaceutical aids such as sweetening agents, essential oils, and preservatives.

As in earlier editions, this ADR includes information concerning drugs of recognized value in dentistry, drugs of uncertain status more recently proposed for use by the dentist, and some drugs once employed extensively but now generally regarded as obsolete. The information, throughout, is presented in a clear and concise form. Prefatory remarks for each section provide a brief review of important factors to be considered in a particular class of therapeutic agents which it covers.

*Practical Therapeutics.* By H.-J. B. GALBRAITH, J. Q. MATTHIAS, and R. C. KING. Year Book Medical Publishers, Inc., 35 East Wacker Drive, Chicago, Ill., 1962. vii + 446 pp. 14 × 22 cm. Price \$7.50.

Primarily aimed at medical students during their hospital training, this book is designed to assist in applying pharmacological theory in clinical practice. As the book is not designed as a comprehensive reference source, no reference to original sources in the medical literature are included. The chief value of this book to scientific pharmacy will probably be as a memory prodger in pharmacology and as a collateral reference for pharmacology students.

*Enzymatic Synthesis of DNA.* By ARTHUR KORNBERG. John Wiley & Sons, Inc., 440 Park Ave.

South, New York 16, N. Y., 1962. ix + 103 pp. 12.5 × 18.5 cm. Price \$4.

This represents the fifth published work in the Ciba Lectures in Microbial Biochemistry. Chapter 1 concerns itself with the replication of DNA—structure, enzymatic approach to replication, properties of the enzyme, evidence for base-pairing mechanism of replication, and some of the unsolved questions. Chapter 2 is entitled "De Novo Synthesis of DNA-like Polymers" and concerns itself with the dAT copolymer and the dGdC polymer. Chapter 3 deals with synthesis of HMC deoxynucleoside monophosphate and HMC deoxynucleoside triphosphate. Dr. Kornberg, one of the recipients of the Nobel Prize in Medicine in 1959, has included figures, tables, structures, and literature references to produce a valuable source of information on the synthesis of DNA.

*Encyclopedia of Plant Physiology. Vol. XVII* Physiology of Movements, Part 2. Edited by W. RUHLAND. Springer-Verlag, Berlin-Wilmersdorf, Heidelberger Platz 3/, West Berlin, Germany, 1962. 17 × 25 cm. xii + 1174 pp. Price DM272.

The volume is an extensive discussion and survey of the basic facts of protoplasmic streaming in plant cells and problems relevant to its mechanism. The biological meaning of this phenomenon is not discussed. The contributed sections are printed in the language of the contributor, mainly English or German. An English to German subject index is included as well as an author index. Extensive literature references are provided following each section.

*Advances in Enzymology.* Vol. 24. Edited by F. F. NORD. Interscience Publishers, 440 Park Ave. South, New York 16, N. Y., 1962. v + 572 pp. 15.5 × 23 cm.

Included in this volume are contributed sections on Aspects of the Biosynthesis of enzymes; Metabolism of spermatozoa; Chemical modifications of proteins and their significance in enzymology; immunochemistry, and related subjects; Structure and function of ribonuclease; Molecular properties and transformations of glycogen phosphorylase in animal tissues, Distribution of enzymes between subcellular fractions in animal tissues; The effects of ionizing radiation on enzymes; Identical and analogous peptide structures in proteins; and Mechanisms related to enzyme catalysis. Subject and author indexes as well as a cumulative index for volumes 1-24 are included.

*Pyridine and its Derivatives.* Vol. 14, Part III. Edited by ERWIN KLINGSBERG. Interscience Publishers Division of John Wiley & Sons, 440 Park Ave. South, New York 16, N. Y., 1962. ix + 914 pp. 15.5 × 22.5 cm. Price \$65.00.

Included in this third part of a four-part work, are Aminopyridines, Pyridinecarboxylic acids, Pyridine side-chain carboxylic acids, and Pyridinols and pyridones. As part of a larger series, "The Chemistry of Heterocyclic Compounds," the editors and authors have made a splendid contribution towards making a subject of such importance and intrinsic difficulty readily available. Extensive literature references carefully document each section to permit ready access to original reports.