

throughout is illustrated with many structural formulas, some of which are often not presented in more advanced texts since it is assumed that they are known.

*New Drugs: 1965 Edition.* Evaluated by A.M.A. Council on Drugs. American Medical Association, 535 N. Dearborn St., Chicago, Ill. 60610, 1965. xii + 510 pp. 16 × 24 cm. Price \$5.00

*New Drugs 1965* is a new publication of the American Medical Association's Council on Drugs. The Council has discontinued its previous publication, *New and Nonofficial Drugs*. The hope is that *New Drugs* will provide the practicing physician with a more usable reference. The scope, organization, and format are entirely different from earlier publications.

The approach to the discussion of drugs is therapeutic and drugs are grouped into chapters according to use. Previous publications categorized drugs according to pharmacologic action. For instance, in *NND*, antidepressants, and analeptics were both included in the chapter covering central stimulants. In *New Drugs* there is a separate chapter discussing each category.

The general discussion which begins each chapter covers many of the drugs available for that particular therapeutic use regardless of whether a monograph is included in the chapter. Monographs appear only for those drugs which have been introduced within the past 10 years.

The monographs provide unbiased information on the drugs and the Council emphasizes that these are not approved drugs; in some cases unfavorable evaluations are given. It is pointed out also in certain instances that a drug may be used for a particular condition, but further evaluation is necessary to substantiate its value. A total of 271 single entity drugs are covered in this edition. The information included in the monograph includes generic and chemical name, actions and uses, adverse reactions and contraindications, pharmacology, dosage, preparations available, trade name(s), and manufacturer(s).

*New Drugs* will be revised and published annually. Monographs for drugs over ten years old will be dropped and newer agents will be added, and as more information is gained about drugs still included, these monographs will be revised to incorporate this information.

*Hawk's Physiological Chemistry.* 14th Ed, Edited by BERNARD L. OSER. McGraw-Hill Book Co., 330 West 42nd Street, New York, N. Y., 1965. xv + 1472 pp. 16.5 × 23.5 cm. Price \$19.50.

The title of the book has been changed with this 14th edition from its original title *Practical Physiological Chemistry* to *Hawk's Physiological Chemistry*. This timely volume is the result of the collaborative efforts of scientists and researchers outstanding in the many aspects of the biochemical field. *Hawk's Physiological Chemistry* is a comprehensive text which includes modern theory and practice without losing sight of the fundamental concepts and methodology which have historically constituted the structure of the science of biochemistry.

This 14th edition contains several innovations in nomenclature and abbreviations. Some of the older terminology has been modified to conform with recommendations of the International Union of Biochemistry. For example, readers will notice that NAD or nicotinamide adenine dinucleotide is used in place of DPN, Coenzyme I, or diphosphopyridine nucleotide and that its reduced form is abbreviated NADH<sub>2</sub>. In keeping with this, NADP or nicotinamide adenine dinucleotide phosphate replaces TPN, Coenzyme II, or triphosphopyridine nucleotide; its reduced form is NADPH<sub>2</sub>.

Some of the subjects receiving special emphasis in this new edition are the composition, configuration, and role of the nucleic acids and related compounds; the enzymes and cofactors involved in metabolic pathways; the biotransformations of nutrients and their metabolites and their estimation in blood and tissues; the use of radioisotopes for the study of metabolic processes; current concepts of the biochemistry of muscular contraction, blood coagulation, respiratory metabolism, detoxification, and so forth. The initial chapters of this book deal with basic physicochemical principles and with the chemistry of the major components of physiological tissues. This sophisticated discussion of the chemical principles important to biochemistry is clearly expressed in surprising detail. The information in all chapters is well documented for further study. Each chapter or section contains analytical procedures and instrumental techniques which may be used as laboratory experiments or aids to the researcher. Some of these procedures and techniques are new, replacing those no longer in wide use. However, many examples of the older, perhaps less precise, procedures have been retained because of their continued usage or historical importance. The reader will find numerous diagrams, illustrations, and tables throughout the text. Particularly noteworthy is the color print of a model of the molecular structure of deoxyribose nucleic acid in the frontispiece which is symbolic of the recent epoch-making developments in the elucidation of the structural configuration and biochemical and genetic significance of the ribonucleotides. This comprehensive textbook in physiological chemistry should prove indispensable to those in the medical and allied professions.

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*Official Methods of Analysis of the Association of Official Agricultural Chemists.* Edited by WILLIAM HORWITZ. Association of Official Agricultural Chemists, P.O. Box 540, Benjamin Franklin Station, Washington, D. C. 20044, 1965. xx + 957 pp. 18 × 26.5 cm. Price \$22.50.

The changes and advances in analytical techniques are revealed in this 10th edition of *AOAC Official Methods of Analysis*. The major portion of new methods adopted within the last five years utilize spectrophotometry and/or chromatography. The methods presented in this book are required by regulatory and research workers in the various areas of agriculture and public health. They are used by the FDA, Department of Agriculture, Internal Rev-

enue Service, and corresponding state agencies, and industry.

The areas covered by the book are agricultural materials which include fertilizers and pesticide formulations; foods; drugs, cosmetics, and colors; extraneous materials, microbiological methods, vitamins, and standards; and the reference tables and index.

In the area of basic pesticides in formulations, 14 new methods have been adopted; for pesticide residues, 12 new methods have been adopted. Food additives as such have been included for the first time. Three methods have been adopted for extracts from packaging materials. Eight new methods were adopted for oils and fats, and 15 new methods for drugs in feeds.

This edition is 125 pages larger than the previous one. In an attempt to contain all methods in a single volume in the next edition, the AOAC has designated certain methods as surplus. These are methods approved but believed to be no longer in use. In future editions these methods will be listed only with reference to the 10th edition unless sufficient proof is given to the AOAC that these methods are still being used.

As a further reflection of the expanded coverage of the work of the AOAC, they have changed their name to the Association of Official Analytical Chemists. However, this change occurred after type for this 10th edition was set.

*Foundations of Anesthesiology.* By ALBERT FAULCONER, JR., and THOMAS E. KEYS. Charles C Thomas, 301-327 East Lawrence Ave., Springfield, Ill., 1965. Two volumes: I, 1-715 + 50 pp.; II, 719-1337 + 50 pp. 17.5 × 24.5 cm. Price \$38.50.

This unusually interesting and informative compilation represents a comprehensive review of the literature on anesthesiology, with particularly thorough emphasis on works of historical and classical interest. Dr. Faulconer, Head of the Mayo Clinic Section of Anesthesiology, and the Mayo Clinic librarian, Mr. Keys, have arranged the text in eight sections, titled: Respiratory Physiology, Inhalation Anesthesia, Rectal Anesthesia, Regional Anesthesia, Intravenous Anesthesia, Accessory Agencies and Technics, Depth of Anesthesia, and Theories of Narcosis.

The papers in each section are arranged in chronological sequence, thus, Section 1 starts with the report in 1543 by Andreas Vesalius on "Artificial Respiration on a Sow," and ends with a report in 1930 by Heymans and Bouckaert titled "Sinus Caroticus and Respiratory Reflexes I. Cerebral Blood Flow and Respiration. Adrenaline Apnoea." Theories of narcosis range from the paper by Marie-Jean-Pierre Flourens in 1847 on the "Action of Ether on the Nervous Centers" to Linus Carl Pauling's "A Molecular Theory of General Anesthesia" published in 1961. Each section starts with an introductory discussion. For easy reference, the composite Table of Contents, Index of Personal Names, and Index of Subjects are repeated in each of the two volumes.

## NOTICES

*Colour Vision: Physiology and Experimental Psychology.* Ciba Foundation Symposium. Edited by A. V. S. DE REUCK and J. KNIGHT. Little, Brown and Co., Boston, Mass., 1965. xiii + 382 pp. 14 × 21 cm. Price \$12.50.

*Bibliography of Vitamin E 1960-1964.* By W. F. KUJAWSKI. Prepared by the Research Laboratories of Distillation Products Industries, Rochester, N. Y. 14603, 1965. 21.5 × 27.5 cm. Paperbound.

*Subsidia Pharmaceutica, Annual Supplement 1965.* Edited by the Laboratory of the Swiss Pharmaceutical Society, Zürich. Publishers: Swiss Pharmaceutical Society, Sihlstr. 37, 8001 Zürich, Switzerland. 182 pp. 17 × 24 cm. Price: Swiss francs 30.—, new binder No. III included. Price of the complete work 1957-1965, Swiss francs 160.—, binders I-III included.

*Herbal.* By JOSEPH WOOD KRUTCH. G. P. Putnam Sons, 200 Madison Ave., New York 16, N. Y., 1965. 255 pp. 23.5 × 31 cm. Price \$17.50.

*The Scientific Basis of Drug Therapy in Psychiatry.* A Symposium at St. Bartholomew's Hospital, London, 1964. Edited by JOHN MARKS and C. M. B. PARE. Pergamon Press, Inc., 122 E. 57th St., New York 22, N. Y., 1965. xiii + 217 pp. Price \$10.50.

*The Battle Against Bacteria.* By P. E. BALDY. Cambridge University Press, 32 E. 57th St., New York, N. Y. 10022, 1965. 14.5 × 22 cm. 102 pp. Price: \$4.50, clothbound; \$1.95, paperbound.

*Chemisch-physikalische Vitaminbestimmungsmethoden.* Von FRITZ GSTIRNER. Ferdinand Enke Verlag, Stuttgart W. Hasenbergsteige 3, Germany, 1965. xii + 426 pp. 16 × 24 cm. Price Geheftet DM 53.50. Kunststoffeinband CM 58.—.

*Progress in Biochemical Pharmacology.* Vol. 1. 1st International Symposium on Radiosensitizers and Radioprotective Drugs, Milan, 1964. Edited by R. PAOLETTI and R. VERTUA. Butterworths, Washington, D. C., 1965. x + 750 pp. 17 × 25 cm. Price: \$28.50.

*The Chemistry of Natural Products.* Edited by K. W. BENTLY. Vol. VI. *The Chemistry of the Vitamins.* By S. F. DYKE. Interscience Publishers, a div. of John Wiley & Sons, Inc., 605 Third Ave., New York, N. Y. 10016, 1965. 363 pp. 15.5 × 23.5 cm. Price \$10.

*Antibiotica et Chemotherapia.* Vol. 13. By O. GSELL. S. Karger, Basel, 1965. Available in U. S. from Albert J. Phicbig, P.O. Box 352, White Plains, N. Y. 10602. 316 pp. 17 × 24.5 cm. Price \$18.76 (including postage).