

Post-operative Complications, Local and Spinal Anaesthesia, and The Clinical Anaesthetists.

The material covered is excellently written and presented, but much too briefly to be of value to the modern-day medical student. The book leaves much to be desired as a teaching manual. However, some mistakes in technique are much more common than others in beginners, and the book does place emphasis on these errors and misunderstandings.

V. K. STOELTING, M.D.

Medical Physiology. Eleventh Edition.

EDITED BY PHILLIP BARD, Professor of Physiology, Johns Hopkins University. Cloth. \$16.50. Pp. 1339 with 508 illustrations, 4 in color. The C. V. Mosby Co., St. Louis, Missouri, 1961.

Sixteen contributors have combined efforts in this revision of a well-known textbook. An index to the degree of revision is the addition of six new contributors, and complete rewriting of several sections. The purpose of this edition is stated as a presentation of that part of physiology of special concern to medical students, practitioners and medical scientists.

Material in the various sections is well presented, and contains a great deal of basic information which is amplified with integrated subject coverage. This is exemplified by chapters on Physiology of Muscular Exercise; Blood Volume, Hemorrhage and Shock; and Interactions of Physical, Chemical and Nervous Factors in Respiratory Control.

The illustrations are appropriate and clear. Mathematical concepts are within the scope of understanding of all readers. Bibliography is current and extremely thorough.

It is not feasible for this one reviewer to read and review the entire volume. However, the sections on Circulation, Respiration and Neuromuscular Systems are recommended as required reading for all physicians who practice anesthesia. They are of value both as a source of information and an example of a method of subject presentation. Other areas such as Endocrine Glands, Body Fluids and the Central Nervous System, reviewed in less detail, are well done and provide answers to many questions. This is a valuable text for all teaching departments.

WILLIAM K. HAMILTON, M.D.

Störungen des Gasaustausches in der Lunge

(Disturbance of the Gas Exchange in the Lungs). First Edition. By DR. MAX SCHERRER, Assistant Professor of Internal Medicine and Head of the Laboratory for Respiratory Physiology in the Department of Internal Medicine of the University of Bern. Paper. DM 26.80. Pp. 136, with 23 illustrations. Published by Medizinischer Verlag Hans Huber, Bern and Stuttgart, 1961.

The author contributed many years of personal experience and a fresh viewpoint to the compilation of this excellent, scholarly monograph. The book is divided into three main parts. In the first part, the patho-physiological basis of disturbances of gas exchange in the lung is considered. The main causes of inadequate respiratory exchange in the lungs are identified as: extensive alveolar hypoventilation; disturbance of the diffusion between alveoli and capillaries; disturbance of the gas distribution in various parts of the lung; and vascular short circuit. The characteristic changes in the alveolar and arterial P_{O_2} and P_{CO_2} , which correspond to specific patho-physiological disturbances are pointed out and explained. The second part describes in detail the methods used and evaluation of results of various tests in normal subjects, in patients with bronchiolar obstruction, in patients with space occupying and fibrosing lesions, and in patients in whom respiratory exchange is disturbed despite normal mechanical properties of the lungs. It is pointed out that the correct application and evaluation of the methods has not only differential diagnostic, but also prognostic significance.

The monograph is well illustrated, has a good index and bibliography and the type is easily readable. This monograph should be a useful addition to the library of those interested in the theoretical and clinical aspects of patho-physiology of respiration, and who possess a reading knowledge of German.

FRANCIS F. FOLDES, M.D.

Pharmacology and Oral Therapeutics.

Twelfth Edition. By EDWARD C. DOBBS, B.S., D.D.S., F.A.C.D., Professor of Pharmacology and Therapeutics, Baltimore Col-

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lege of Dental Surgery, Dental School, University of Maryland, Baltimore. Cloth. \$10.00. Pp. 578, with 32 illustrations and 49 tables. The C. V. Mosby Co., St. Louis, Missouri, 1961.

This publication has become a standard textbook for dental students and practitioners, and a ready reference for those manifesting interest in dentistry. This twelfth edition has been brought up-to-date with the sixteenth revision of the Pharmacopeia of the U. S. (1960). In addition, the 1961 editions of New and Nonofficial Drugs and of Accepted Dental Remedies were utilized to furnish authentic information on newer drugs.

The book is conveniently arranged so that information on any drug is easily found under the body systems where it may be of value, or under its therapeutic indications. Early in the book appears a stimulating and thorough chapter on prescription writing, which should serve as an excellent refresher for graduates and an easily understood reference for undergraduates.

Although the first half of the book is devoted largely to a discussion of the effects of drugs on body systems, the latter half contains such important items as hormones and enzymes, biologic products, chemotherapy and antibiotic drugs, physical therapeutics, and dental and oral therapeutics. In addition, there are four chapters dealing with local and general anesthetic drugs, analgesic drugs and hypnotics, sedatives and tranquilizing drugs. It must be stressed, however, that it is not possible for a book of this kind to contain an exhaustive treatise on the latter-mentioned subjects. Anesthetic agents and other depressing drugs in common use are given abbreviated treatment. This cannot be regarded as an adequate substitute for presentations in textbooks exclusively devoted to the field of anesthesiology. The material presented is easily readable and covers the field in as adequate a manner as space permits.

In such an excellently bound volume, it is astonishing to note a number of errors, not only in spelling, but such inaccuracies in conversion as 8 mg. of hemoglobin per milliliter of blood, instead of 80 mg. and this erroneous quotation on p. 336: "Large doses of codeine, or repeated small doses may depress the cough

reflex, preventing the aspiration of mucus or blood resulting in atelectasis."

Physicians will find this book a good reference on oral diseases and their therapy, but is especially recommended for the dental student and the graduate practitioner of dentistry.

FRANK M. GRESH, M.D.

Medicinal Chemistry, Volume 5. By WARREN J. CLOSE, LEONARD DOUB, AND MARVIN A. SPIELMAN. Edited by: Walter Hartung and Ernest E. Campaigne. Cloth. \$18.00. Pp. 432, with 279 tables. Published by John Wiley & Sons, Inc., New York, London, 1961.

This volume is the fifth in the series produced by the Medicinal Division of the American Chemical Society to give comprehensive summaries on biological properties of known substances, which will include correlation of chemical structure with physiological activity. References to most of the compounds tested are also included. This volume describes (1) Anticonvulsant Drugs, and (2) Sulfones and Related Compounds in Tuberculosis and Leprosy. Forty-five pages are devoted to the pharmacology of the sulfones in tuberculosis and leprosy. These are concise and authoritative reviews. The remainder of the book contains tables and references to original work in these fields, to and including 1959.

The material in this volume should be known to anyone preparing new drugs for testing in the field of anticonvulsants, tuberculosis or leprosy. It is not directly in the field of interest of most anesthesiologists.

ROBERT W. VIRTUE, M.D.

The Principles and Practice of Surgical Nursing. Second edition. By D. F. ELTON NASIR, F.R.C.S., Surgeon, St. Bartholomew's Hospital (London); Dean, Lecturer in Surgery, Demonstrator of Operative Surgery, St. Bartholomew's Hospital Medical College; Examiner in Surgery, University of London; formerly Hunterian Prof., Arris Gale Lecturer, Royal College of Surgeons. Cloth. \$7.00. Pp. 1032, with 385 figures. The Williams & Wilkins Co., Baltimore, Maryland, 1961. (Edward Arnold (Publishers) Ltd., London, England.)