

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 lung 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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