

loss, because the corrections have not been subjected to experimental validation.

If there is any criticism to be made of this book it is that, in many places, the reading is heavy. For this reason, the book may not be suitable for a first-year graduate course unless the students have had extensive preliminary study of thermodynamics and statistical mechanics.

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Practical Science

A Short History of Clinical Pathology.

W. D. Foster. Livingstone, London; Williams and Wilkins, Baltimore, Md., 1961. xii + 154 pp. Plates. \$6.50.

Clinical pathology is the application of certain basic techniques of medical science to the diagnosis and treatment of disease. Since such procedures only become available as sciences develop, the text deals with progress in the related sciences; this attractively-bound, well-illustrated book is, therefore, an account of scientific advances in microscopic anatomy, physiology, pathology, microbiology, serology, and chemistry—the disciplines upon which clinical pathology rests and also the ones which have made possible its development. From crude visual inspection of a urine specimen to modern urinalysis is a great step forward, one that contributes immensely to medical diagnosis and treatment. Clinicians once resisted the introduction of laboratories into practice. That laboratories are now a must in practice and in hospital care is a measure of our progress. The clinical pathologist is, if medically qualified, a full member of the clinical team.

The book is unique in that it deals with the development of a science which is itself half a dozen sciences. Because its author is British, the book is slanted to British history and problems, but it deals fairly with advances made elsewhere. It is well written and throws light on our basic medical sciences from a point of view rarely exploited, making it valuable reading for scientists who are not practicing clinical pathologists as well as for those who are.

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New Books

Biological and Medical Sciences

Advances in Pharmacology. vol. 1. Silvio Garattini and Parkhurst A. Shore, Eds., Academic Press, New York, 1962. 485 pp. \$13.

Advances in Small Animal Practice. vol. 3. Proceedings of the British Small Animal Veterinary Association, 1961. Bruce V. Jones, Ed. Pergamon, New York, 1962. 208 pp. Plates. \$10.

Animal Agents and Vectors of Human Disease. Ernest Carroll Faust, Paul Chester Beaver, Rodney Clifton Jung. Lea and Febiger, Philadelphia, ed. 2, 1962. 485 pp. Illus. \$9.50.

Animal Tissue Techniques. Gretchen L. Humason. Freeman, San Francisco, Calif., 1962. 473 pp. Illus. \$8.

Annual Review of Pharmacology. vol. 2. Windsor C. Cutting, Ed. Annual Reviews, Palo Alto, Calif., 1962. 484 pp. Illus. \$7.

Anxiety. A condition of modern man. Heiri Steiner and Jean Gebser. Dell, New York, 1962. 120 pp. Illus. Paper, \$0.95.

Atoll Environment and Ecology. Herold J. Wiens. Yale Univ. Press, New Haven, Conn., 1962. 554 pp. Illus. Plates. \$15.

Basic Facts of Medical Microbiology. Stewart M. Brooks. Saunders, Philadelphia, ed. 2, 1962. 335 pp. Illus. \$5.

Biochemical Applications of Gas Chromatography. H. P. Burchfield and Eleanor E. Storrs. Academic Press, New York, 1962. 698 pp. Illus. \$22.

The Biochemistry of Intracellular Parasitism. James W. Moulder. Univ. of Chicago Press, Chicago, Ill., 1962. 187 pp. \$6.

Biophysical Science. Eugene Ackerman. Prentice-Hall, Englewood Cliffs, N.J., 1962. 640 pp. Illus. Trade ed., \$13.35; text ed., \$10.

Calciphylaxis. Hans Selye. Univ. of Chicago Press, Chicago, Ill., 1962. 573 pp. Illus. \$25.

Carbohydrates of Living Tissues. M. Stacey and S. A. Barker. Van Nostrand, Princeton, N.J., 1962. 232 pp. Illus. \$7.50.

Cellular Physiology and Biochemistry. William D. McElroy. Prentice-Hall, Englewood Cliffs, N.J., 1961. 127 pp. Illus.

Cilia, Ciliated Epithelium and Ciliary Activity. vol. 15, International Series of Monographs on Pure and Applied Biology: Modern Trends in Physiological Sciences. Jose A. Rivera. Pergamon, New York, 1962. 178 pp. Illus. Plates. \$9.50.

Crop Adaptation and Distribution. Carroll P. Wilsie. Freeman, San Francisco, Calif., 1962. 456 pp. Illus. \$9.

Czechoslovakian Medical Literature, 1959. Compiled by the National Medical Library, Prague. State Health Publishing House, Prague, Czechoslovakia, 1961. 284 pp. Paper.

Dictionary of Ecology. Herbert C. Hanson. Philosophical Library, New York, 1962. 382 pp. \$10.

Elements of Biophysics. James E. Randall. Year Book Medical Publishers, Chicago, Ill., ed. 2, 1962. 339 pp. Illus. \$8.75.

Étude des Antigènes de Transplantation. Présents dans les Cellules Spléniques et Thymiques. André Castermans. Arscia, Bruxelles, Belgium; Maloine, Paris, 1962. 275 pp. Illus.

Experimental Embryology. Techniques and procedures. Roberts Rugh. Burgess, Minneapolis, Minn., ed. 3, 1962. 510 pp. Illus. \$9.25.

Field and Laboratory Guide for Ecology. Paul C. Lemon. Burgess, Minneapolis, Minn., 1962. 186 pp. Illus. \$5.

Genetics. Robert C. King. Oxford Univ. Press, New York, 1962. 363 pp. Illus. \$7.50.

The Ideas of Biology. John Tyler Bonner. Harper, New York, 1962. 191 pp. Illus. \$4.95.

Information and Communication in Biological Science. Lowell H. Hattery (Prepared for the Biological Sciences Communication Project, American Institute of Biological Sciences). Center for Technology and Administration, American University, Washington, D.C., 1961. 99 pp. Paper \$0.25.

Integrated Basic Science. Stewart M. Brooks. Mosby, St. Louis, Mo., 1962. 507 pp. Illus. \$7.85.

International Review of Cytology. vol. 12. G. H. Bourne and J. F. Danielli, Eds. Academic Press, New York, 1961. 433 pp. Illus. \$15.

Laboratory Instructions in Biochemistry. Israel S. Kleiner and Louis B. Dotti. Mosby, St. Louis, Mo., ed. 6, 1962. 202 pp. Illus. Paper, \$3.95.

Laboratory Outline for General Zoology. George Edwin Potter, Mosby, St. Louis, Mo., ed. 5, 1962. 356 pp. Illus. Paper, \$4.

Microbial Classification. 12th symposium of the Society for General Microbiology, Royal Institution, London, 1962. G. C. Ainsworth and P. H. A. Sneath, Eds. Cambridge Univ. Press, New York, 1962. 492 pp. Illus. \$9.50.

The Nature of Parasitism. The relationship of some Metazoan parasites to their hosts. W. P. Rogers. Academic Press, New York, 1962. 296 pp. Illus. \$7.50.

The Photosynthesis of Carbon Compounds. Melvin Calvin and J. A. Bassham. Benjamin, New York, 1962. 139 pp. Illus. \$5.50.

Plants. A photographic study. Addison E. Lee and Charles Heimsch. Holt, Rinehart, and Winston, New York, 1962. 68 pp. Illus. Paper, \$1.50.

Progress in Hematology. vol. 3. Leandro M. Tocantins, Ed. Grune and Stratton, New York, 1962. 383 pp. Illus. \$16.50.

Regional Silviculture of the United States. John W. Barrett, Ed. Ronald, New York, 1962. 617 pp. Illus. \$12.

Response of the Nervous System to Ionizing Radiation. Proceedings of an international symposium held at Northwestern University Medical School, Chicago, Ill., September 1960. Thomas J. Haley and Ray S. Snider, Eds. Academic Press, New York, 1962. 800 pp. Illus. \$18.

Selected Experiments in Medical Microbiology. Stewart M. Brooks. Saunders, Philadelphia, ed. 2, 1962. 103 pp. Illus. Paper, \$2. Laboratory Manual for *Basic Facts of Medical Microbiology*.

Tissue Transplantation. Proceedings of an international symposium held at Santiago, Vina del Mar, and Valparaiso, Chile, 1961. Alberto P. Cristoffanini and Gustavo Hoecker, Eds. Univ. of Chile, Santiago, Chile, 1962. 269 pp. Illus. Plates.