

## New Books

### Biological and Medical Sciences

Balinsky, B. I. *An Introduction to Embryology*. Saunders, Philadelphia, 1960. 576 pp.

Benson, Otis O., Jr., and Hubertus Strughold, Eds. *Physics and Medicine of the Atmosphere and Space*. Wiley, New York, 1960. 663 pp. \$12.50. Proceedings of the second international symposium held at San Antonio, Texas, 10-12 November 1958, and arranged by the Southwest Research Institute.

Boyer, Paul D., Henry Lardy, Karl Myrvack, Eds. *The Enzymes*. vol. 2, *Purine and Pyrimidine Nucleotides and Phosphagens. Prosthetic Groups and Co-factors* (part A). Academic Press, New York, 1960. 493 pp. \$16. Contributors to this volume include H. Beinert, R. M. Bock, A. E. Braunstein, C. E. Cardini, A. H. Ennor, E. P. Kennedy, W. E. Knox, L. F. Leloir, D. E. Metzler, J. F. Morrison, J. C. Rabinowitz, and M. F. Utter. The topics covered in this volume will be continued in volume 3.

Bruner, H. D., Ed. *Methods in Medical Research*. vol. 8. Year Book, Chicago, 1960. 382 pp. \$9.75. Contents: "Life history of the Erythrocyte," "Measurement of responses of involuntary muscle," and "Peripheral blood flow measurement."

Causey, Gilbert. *The Cell of Schwann*. Livingston, Edinburgh; Williams and Wilkins, Baltimore, Md., 1960. 131 pp. \$4.75.

Chupp, Charles, and Arden F. Sherf. *Vegetable Diseases and Their Control*. Ronald, New York, 1960. 698 pp. \$12. In the preface the authors state that this is an attempt to present an organized account, suitable for use by commercial growers and by others, of the more than 30,000 literature reference (in many languages) concerned with the diseases of vegetables and with the control of these diseases.

Conn, H. J., et al. *Staining Procedures Used by the Biological Stain Commission*. William and Wilkins, Baltimore, Md., ed. 2, 1960. 301 pp. \$5. Published under the auspices of the Biological Stain Commission (University of Rochester Medical Center), this publication is intended to represent staining methods used in micro-technique in the laboratories of the commission members.

Fink, Bruce. *The Lichen Flora of the United States*. Univ. of Michigan Press, Ann Arbor, 1960 (second printing). 438 pp. \$12.50. In a foreword prepared for this printing, Alexander H. Smith comments that the book has "filled a very great need for the naturalists of North America as well as for those living abroad. . . . It is evident to all students of the plant sciences that this manual, published in 1935, is out of date in many respects. However, since the more recent work has not been brought together in manual form, [it] is still a foundation stone for the study of lichens in this country."

Florkin, Marcel, and Howard S. Mason, Eds. *Comparative Biochemistry*. A comprehensive treatise. vol. 2, *Free Energy and Biological Function*. Academic Press,

New York, 1960. 704 pp. \$20. The contents of this volume include free energy and biosynthesis of phosphates, utilization of free energy for the biosynthesis of saccharides, comparative biochemistry of free energy utilization for the biosynthesis of peptides and proteins, ammonia metabolism and urea biosynthesis, muscular contraction, other mechanisms producing movements, active transport, balance of water, electrolytes, and nonelectrolytes, the mechanisms of osmoregulation, nerve conduction and electrical discharge, and bioluminescence.

Lederer, E., Ed. *Chromatographie*. En chimie organique an et biologique. vol. 2, *Applications en Chimie Biologique*. Masson, Paris, 1960. 890 pp.

Parkes, A. S., and Audrey U. Smith, Eds. *Recent Research in Freezing and Drying*. Thomas, Springfield, Ill., 1960. 327 pp. \$13.75. Proceedings of the second International Symposium on Freezing and Drying, 1958.

Rensch, Bernhard. *Evolution above the Species Level*. Columbia Univ. Press, New York, 1960. 436 pp. \$10. A translation of the second edition of *Neuere Probleme der Abstammungslehre* (1954).

Reyniers, James A., et al. *Germfree Life Studies*. No. 3. Univ. of Notre Dame Press, Notre Dame, Ind., 1960. This volume, a publication of the Lobund Institute, contains a résumé of the studies by R. W. Glaser (by N. R. Stoll); "A survey of germfree animals: the white Wyandotte bantam and white Leghorn chicken"; "Parasitological survey of Lobund germfree animals"; and "Rearing germfree turkeys."

Rytand, David A., and William P. Creger, Eds. *Annual Review of Medicine*. vol. 11. Annual Reviews, Palo Alto, Calif., 1960. 460 pp. \$7.

Steel, Robert G. D., and James H. Torrie. *Principles and Procedures of Statistics*. McGraw-Hill, New York, 1960. 497 pp. \$10.50.

### Mathematics, Physical Sciences, and Engineering

Apostle, H. G. *A Survey of Basic Mathematics*. Little, Brown, Boston, Mass., 1960. 479 pp.

Azaroff, Leonid V. *Introduction to Solids*. McGraw-Hill, New York, 1960. 474 pp. \$9.50.

Bates, Robert L. *Geology of the Industrial Rocks and Minerals*. Harper, New York, 1960. 453 pp. \$10.

Brady, Wray G., and Maynard J. Mansfield. *Calculus*. Little, Brown, Boston, 1960. 463 pp.

Condon, F. E., and Herbert Meislich. *Introduction to Organic Chemistry*. Holt, Rinehart and Winston, New York, 1960. 859 pp. \$10.50.

Darmois, Eugène, and Geneviève Darmois. *Electrochimie Théorique*. Masson, Paris, 1960. 239 pp. NF. 39.

Day, Allan R., and Madeleine M. Joulie. *Organic Chemistry*. Van Nostrand, New York, 1960. 870 pp. \$9.50.

Sackheim, George I. *Physics Calculations*. Macmillan, New York, 1960. 267 pp. Paper, \$3.50. Intended to show the beginning physics student the relationship

between the principles of physics and their application in many different types of problems.

Schwartz, Seymour, Ed. *Selected Semiconductor Circuits Handbook*. Wiley, New York, 1960. xiv + 11 parts. \$12. Provides the electronic engineer with more than 150 semiconductor circuits. Parts 2 through 10 were originally published by the Bureau of Ships as *A Handbook of Semiconductor Circuits*.

Shames, Irving H. *Engineering Mechanics Dynamics*. Prentice-Hall, Englewood Cliffs, N.J., 1960. 408 pp. \$6.75.

Strahler, Arthur N. *Physical Geography*. Wiley, New York, ed. 2, 1960. 544 pp. \$7.50.

### Social Sciences

De Laguna, Frederica, Ed. *Selected Papers from the American Anthropologist, 1888-1920*. Published for the American Anthropological Association by Row, Peterson, Evanston, Ill., 1960. 940 pp. \$8. This book, addressed primarily to the scientifically oriented public, seniors and beginning graduate students marks the 70th anniversary of the founding of the *American Anthropologist* and is intended to represent the interests and accomplishments in American anthropology from the time the journal was established through World War I. A. I. Hallowell has contributed an essay on the beginnings of anthropology in America and the editor has added a selected bibliography.

Glover, Edward. *The Roots of Crime*. International Universities Press, New York, 1960. 435 pp. \$7.50. Volume 2 of *Selected Papers on Psychoanalysis*.

Goldschmidt, Walter. *Exploring the Ways of Mankind*. Holt, Rinehart and Winston, New York, 1960. A revised and expanded edition of *Readings in the Ways of Mankind* (1957).

Gurin, Gerald, Joseph Veroff, Shelia Field. *Americans View Their Mental Health*. Basic Books, New York, 1960. 479 pp. \$7.50. This is the fourth volume in the series currently being published under the auspices of the Joint Commission on Mental Illness and Health. Findings in the following areas of human behavior are discussed: the degree of satisfaction with the marital relationship, contentment or frustration on the job, attitudes toward rearing children, the relationship between religious belief and mental health, the feelings of unmarried persons about their status, the relationship between educational attainment and self-esteem, and the ways in which people attempt to solve their emotional problems.

Jackson, Don D., Ed. *The Etiology of Schizophrenia*. Basic Books, New York, 1960. 456 pp. \$7.50.

Plunkett, Richard J., and John E. Gordon. *Epidemiology and Mental Illness*. Basic Books, New York, 1960. 143 pp. \$2.75. Monograph No. 6 in the series published for the Joint Commission on Mental Illness and Health.

Waelder, Robert. *Basic Theory of Psychoanalysis*. International Universities Press, New York, 1960. 286 pp. \$5.