

activation enzymes, transfer RNA's, guanosine triphosphate, and ribosomes are reviewed. The final chapter deals with those aspects of enzymic adaptation which throw light on the mechanisms and control of protein synthesis. The author considers successively induction and repression of enzyme synthesis in microorganisms, non-Mendelian hereditary factors, changes in protein synthesis during differentiation, and the synthesis of antibodies.

Although there are a number of typographical errors, this book, on the whole, is well written. The experimental basis for theories of protein biosynthesis is extensively recorded, and the book should be of value to research workers even after some of the current theories have become obsolete.

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Concise, Clear, Utilitarian

Minerals for the Chemical and Allied Industries. Sydney J. Johnstone and Margery J. Johnstone. Wiley, New York, ed. 2, 1961. xi + 788 pp. \$25.

Publication of this second edition of *Minerals for the Chemical and Allied Industries* again brings to our attention the valuable contribution that Sydney J. Johnstone and Margery J. Johnstone made in assembling a comprehensive volume based largely on the industrial applications and specifications of minerals and metals. The first edition, so well received in 1954, has been carefully brought up-to-date; six chapters have been added, and parts of the volume have been completely rewritten to make available descriptions of recent technological advances and data, previously classified. Although the book was prepared in Great Britain and draws heavily upon British publications for source material, its coverage is world-wide in scope, and many other sources have been utilized, including the principal U.S. agencies concerned with material specifications as well as numerous previously unpublished reports.

The format is nearly identical with that of the first edition. Each of the 77 chapters covers a commodity or group of commodities, arranged alphabetically. The typical chapter contains

an introductory section, which briefly covers natural occurrences and includes general observations on the factors that control uses and marketing. Material on world production, extraction, and use is presented in the sections that follow. The bibliographies were selectively assembled, and they provide separate lists of publications exclusively devoted to standard specifications.

The emphasis placed upon utilization and specifications makes this book unique among the large, commodity-oriented volumes, such as *Industrial Minerals and Rocks* and *Mineral Facts and Problems*, and a valuable companion to them. Unlike some other commodity volumes the Johnstones' volume is industrially oriented, and includes both metallic and nonmetallic materials, thereby providing more complete coverage and ignoring the commonly arbitrary distinction between the two.

Because this book has only two authors rather than many contributors, its coverage is very well balanced and the ease of reference is at once obvious. Moreover, the text is refreshingly concise and readable, strongly suggesting that its preparation was a labor of love for the authors. Although both editions are primarily intended for use by mineral producers and consumers, the second edition especially should appeal to all persons concerned with mineral economics and economic geology.

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New Books

Biological and Medical Sciences

Air Pollution. vols. 1 and 2. Arthur C. Stern, Ed. Academic Press, New York, 1962. vol. 1, 673 pp., \$20; vol. 2, 603 pp., \$18.50.

Algology. Proceedings of the symposium held at New Delhi, India, in December 1959. D. Raghavan and P. Kachroo, Eds. Indian Council of Agricultural Research, New Delhi, 1960. 413 pp. Illus.

Antibiotics and Sulphonamides in Paediatrics. Joseph Ungar and Leonard Haas. Oxford Univ. Press, New York, 1962. 157 pp. 15s.

Comparative Neuropathology. J. R. M. Innes and L. Z. Saunders. Academic Press, New York, 1962. 839 pp. Illus. \$32.50.

Diagnostic Microbiology. A textbook for the isolation and identification of pathogenic microorganisms. W. Robert Bailey and Evelyn G. Scott. Mosby, St. Louis, Mo., 1962. 327 pp. Illus. \$6.50.

Diagnostik und Therapie der Erkrankungen des Magen-Darm-Kanals. Medizini-

schen Universitätsklinik Erlangen. Karger, Basel, Switzerland, 1962. 367 pp. Illus. Paper, \$20.50. A collection of lectures presented at the postgraduate course in gastroenterology at the University of Erlangen, during late 1960, and dedicated to Norbert Henning.

Fossils. An introduction to prehistoric life. William H. Matthews III. Barnes and Noble, New York, 1962. 347 pp. Illus. \$2.25.

General Biology. Gordon Alexander. Crowell, New York, ed. 2, 1962. 918 pp. Illus. \$7.50.

Introductory Zoology. Lincoln Coles Petit. Mosby, St. Louis, Mo., 1962. 619 pp. Illus. \$7.50.

Methods of Biochemical Analysis. vol. 9. David Glick, Ed. Interscience, New York, 1962. 461 pp. Illus. \$14.50.

Modern Dairy Cattle Management. Richard F. Davis. Prentice-Hall, Englewood Cliffs, N.J., 1962. 270 pp. Illus. Trade ed., \$6.65; text ed., \$5.

Otosclerosis. Henry Ford Hospital International Symp. Harold F. Schuknecht, Ed. Little, Brown, Boston, Mass., 1962. 679 pp. Illus. \$18.50.

Progress in Drug Research. vol. 3. Ernst Jucker, Ed. Interscience, New York, 1961. 563 pp. Illus. \$23.50.

Mathematics, Physical Sciences, and Engineering

Ballistic Missile and Aerospace Technology. Proceedings of the 6th symposium. vol. 1, *Design and Reliability, and the Invited Addresses* (414 pp., Illus., \$8); vol. 2, *Ballistic Missile and Space Electronics* (463 pp., Illus., \$9); vol. 3, *Propulsion, Space Science, and Space Exploration* (455 pp., Illus., \$9); vol. 4, *Re-entry* (250 pp., Illus., \$5). C. T. Morrow, L. D. Ely, and M. R. Smith, Eds. Academic Press, New York, 1961. The proceedings volumes contain the unclassified papers presented at the symposium sponsored by the Air Force and Aerospace Corporation and held in Los Angeles, 29-31 August 1961. Classified papers are published in the *Transactions*.

Differential Equations. Kaj L. Nielsen. Barnes and Noble, New York, 1962. 284 pp. Illus. Paper, \$1.75.

Experimental Thermochemistry. vol. 2. H. A. Skinner, Ed. Interscience, New York, 1962. 476 pp. Illus. \$14.50.

Introductory Atomic Physics. M. Russell Wehr and James A. Richards, Jr. Addison-Wesley, Reading, Mass., 1962. 431 pp. Illus. \$8.75.

Small and Medium Power Reactors. vols. 1 and 2. Proceedings of the conference held at Vienna, 5-9 September 1960. International Atomic Energy Agency, Vienna, Austria, 1961. vol. 1, 617 pp. \$9 (paper); vol. 2, 453 pp. \$7 (paper).

The Stars. A new way to see them. H. A. Rey. Houghton Mifflin, Boston, Mass., ed. 2, 1962. 160 pp. Illus. \$6.

Worked Examples in Physics. V. L. Zubov and V. P. Shal'nov. Translated by Erwin Marquit. D. L. Evans, Translation editor. Pergamon, New York, 1962. 353 pp. Illus. \$17.50. Translated from *Zadachi po Fizike*, Moscow, ed. 5, 1959.