

## Chemical Dictionaries

Although the new editions of **The Condensed Chemical Dictionary** [by Arthur and Elizabeth Rose (Reinhold, New York, ed. 3, 1961. 1275 pp. \$17.50)] and **A New Dictionary of Chemistry** [edited by L. MacKenzie Miall (Interscience, New York, ed. 3, 1961. 604 pp. \$13.75)]—belong in the class of chemical dictionaries, the two are so different that they actually complement one another.

The Rose book is more of a dictionary in the usual sense, in that its coverage is limited mainly to the names of chemicals and to trademarked items. Physical properties and uses, as well as structural formulas (whenever they are useful), are given for each entry. The treatment is reminiscent of that in the *Merck Index*, although the coverage is naturally much broader. A unique feature is its very thorough and up-to-date treatment of a large number of trade names, and perhaps its most useful feature is the translation of abbreviations and trivial names of pharmaceutical and industrial products and intermediates into systematic chemical nomenclature.

The Miall dictionary is more of a short encyclopedia of chemistry. Its entries cover elements, individual compounds, generic terms for classes of compounds, and descriptions of instruments, machines, reactions, and processes, as well as clear statements and explanations of the fundamental laws, phenomena, and concepts of chemistry. The work is rendered even more valuable for reference purposes by its presentation of brief, well-written biographies of those who have contributed significantly to the development of chemistry.

Both dictionaries are well put together, current, authoritative, and easy to use. Each one is well worth its price.

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Since its publication in 1939, the **Dictionary of Commercial Chemicals** by Foster and Cornelia Snell (Van Nostrand, Princeton, N.J., ed. 3, 1962. 723 pp. \$12.50) has gone through two editions. It is heartening to know that "... successive printings or editions. . . ." are contemplated. The book's 38 chapters are replete with concise information, and each chapter's introductory paragraph is not only informative but

very interesting as well. Eight appendices, including those entitled "Medical terms defined," "Lower limit of explosive concentration of vapor," and "Lower limit of explosive concentration of dusts," complete the dictionary, which is apparently intended for production chemists but which is equally invaluable to any chemist who ventures outside his own narrow field of interest. A truly useful source of information.

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## New Books

### Biological and Medical Sciences

**Advances in Ophthalmology.** vol. 12. E. B. Streiff, Ed. Karger, New York, 1962. 386 pp.

**Animal Parasitology.** A laboratory manual. Elmer R. Noble and Glenn A. Noble. Lea and Febiger, Philadelphia, 1962. 120 pp. Illus. \$3.50.

**Annual Review of Medicine.** vol. 13. David A. Ryland, Ed. Annual Reviews, Palo Alto, Calif., 1962. 559 pp. Illus. \$7.

**Antimicrobial Agents and Chemotherapy.** Proceedings of the First Interscience Conference on Antimicrobial Agents and Chemotherapy, held in New York (1961). Maxwell Finland and George M. Savage, Eds. American Soc. for Microbiology, Detroit, 1962. 998 pp. Illus. \$10.

**Aspects of Disease Transmission by Ticks.** Symposia No. 6. Proceedings of the symposium held at the Zoological Society of London, 8 March 1961. Don R. Arthur, Ed. The Society, London, 1962. 265 pp. Illus. Plates. Paper, £4.

**Biochemistry.** Israel S. Kleiner and James M. Orten. Mosby, St. Louis, ed. 6, 1962. 867 pp. Illus. Plates. \$9.75.

**British Prosobranch Molluscs.** Their functional anatomy and ecology. Vera Fretter and Alastair Graham. British Ray Society, London, 1962. 771 pp. Illus. £8 8s.

**Cryptobiotic Stages in Biological Systems.** Nathan Grossowicz, Shlomo Hestrin, and Alexander Keynan, Eds. Elsevier, New York, 1961. 244 pp. Illus. Paper, \$5.

**The Development of Homeostasis.** With special reference to factors of the environment. Proceedings of the symposium held in Liblice near Prague, 15–17 September 1960. E. F. Adolf, Chairman. Publishing House of the Czechoslovak Acad. of Sciences, Prague; Academic Press, New York, 1962. 217 pp. Illus. Plates. \$7.

**Dissection of the Cat** (and comparisons with man). A laboratory manual. Bruce M. Harrison. Mosby, St. Louis, ed. 4, 1962. 215 pp. Illus. Paper, \$3.75.

**The Eye.** vol. 1, *Vegetative Physiology and Biochemistry.* Hugh Davson, Ed. Academic Press, New York, 1962. 455 pp. Illus. \$14.

**Fundamentals of Keratinization.** Publ. No. 70. Earl O. Butcher and Reidar F. Sognnaes, Eds. American Assoc. for the Advancement of Science, Washington,

D.C., 1962. 200 pp. Illus. Cash price to members, \$5.75; \$6.50. A symposium presented at the 1960 meeting of the AAAS, held in New York, December 1960.

**Human Physiology.** W. B. Youmans. Macmillan, New York, ed. 2, 1962. 558 pp. Illus. \$6.75.

**Introduction to Biology.** Douglas Reid. Cambridge Univ. Press, New York, 1962. 141 pp. Illus. \$3.

**An Introduction to the Study of Disease.** William Boyd. Lea and Febiger, Philadelphia, ed. 5, 1962. 478 pp. Illus. Plates. \$7.50.

**Die Mammographie.** Technik, Röntgenatlas, Statistik. Dietrich Buttenberg and Karl Werner. Schattauer, Stuttgart, Germany, 1962. 116 pp. Illus. DM.24.50.

**Mechanisms of Organic and Enzymic Reactions.** S. G. Waley. Oxford Univ. Press, New York, 1962. 379 pp. Illus. Plates. \$11.20.

**Medical Entomology.** Arthropods and human disease. William R. Horsfall. Ronald, New York, 1962. 476 pp. Illus. \$10.

**The Microbiology of the Atmosphere.** P. H. Gregory. Hill, London; Interscience, New York, 1961. 267 pp. Illus. Plates. \$10.50.

**The Morphology and Taxonomy of Male Scale Insects (Homoptera: Coccoidea).** M. S. K. Ghauri. British Museum (Natural History), London, 1962. 228 pp. Illus. £4.

**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.

**Principles of Biology.** Neal D. Buffaloe. Prentice-Hall, Englewood Cliffs, N.J., 1962. 378 pp. Illus. Text ed., \$6.95; trade ed. \$9.95.

**Progress in Surgery.** vol. 2. M. Allgöwer, Ed. Karger, New York, 1962. 328 pp. Illus. \$15.

**Rabbit Brain Research.** vol. 2, *Electroencephalographic Atlas for Pharmacological Research.* Effect of drugs on the electrical activity of the rabbit brain. Vincenzo G. Longo. Elsevier, New York, 1962. 140 pp. Illus.

**Properties of Membranes and Diseases of the Nervous System.** Based on a symposium (June 1961) sponsored by the American Neurological Association and the American Association of Neuropathologists. Donald B. Tower, Sarah A. Luse, Harry Grundfest. Springer, New York, 1962. 111 pp. Illus. Paper, \$4.50.

**Radiation Protection in Mammals.** John F. Thomson. Reinhold, New York, 1962. 219 pp. Illus. \$7.75.

**The Semen of Animals and Artificial Insemination.** Technical Communication No. 15, Commonwealth Bureau of Animal Breeding and Genetics, Edinburgh. J. P. Maule, Ed. The Bureau, Farnham Royal, England, 1962. 448 pp. Illus. 60s.

**Vitamin B<sub>12</sub> und Intrinsic Faktor.** Second European symposium. H. C. Heinrich, Ed. Enke, Stuttgart, Germany, 1962. 818 pp. Illus.

**Works of the Institute of Higher Nervous Activity** (Trudy Instituta Vysshei Nervnoi Deyatel'nosti. Akademiya nauk SSSR. 1959). vol. 3, Physiological series. Translated by M. Roublev. Israel Program for Scientific Translations (order from the OTS, U.S. Department of Commerce, Washington, D.C.). 263 pp. Illus. Paper, \$2.75.