

(chapter 6). The coverage is comprehensive and the treatment is in general clear. Although the discussion is quite terse in several instances, it will repay the efforts of the initiate.

The second part of the book is devoted to a discussion of crystalline organic structures, ranging from compounds of low molecular weight (chapter 7, 661 references) to crystalline and fibrous macromolecular substances (chapters 7 and 8). The survey is intended to be comprehensive up to the end of June 1958, and in some cases to June 1959. Many useful figures which represent the stereochemistry and dimensions of organic molecules are included. A section summarizes the information on bond lengths in organic molecules. In some cases the discussion of structures is somewhat superficial, but this is perhaps understandable in view of the large amount of material covered.

This book arrives at an opportune time. The technique of x-ray structure analysis of large and complex organic molecules is beginning to emerge as one of the more important methods of unraveling their architecture. For those in this field who are concerned with structural and related problems, this book should provide a good introduction to the x-ray diffraction method and a useful reference to the work which has been done.

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## Practical Aid

**Scientific Russian Guide.** Handbook for students and professionals interested in scientific Russian. Mary A. Emery and Serge A. Emery. McGraw-Hill, New York, 1961. 191 pp. \$4.50.

This manual offers elementary science readings for students who have completed approximately a year of Russian language at the college level. There are 40 readings of about 200 to 300 words each: 15 biographies of famous Russian scientists and inventors, 12 selections on various topics in mathematics and physics, 9 abstracts from Soviet journals, and 4 selections that contain some interesting predictions. All but the last four readings are accompanied by a few questions in Russian and by an extensive on-the-spot word list with idiomatic, and generally good, translations.

Appendix materials, which will be useful to some, include expressions often encountered in scientific texts, translations of isolated phrases and clauses lifted from contemporary technical texts, a list of chemical elements, and the equivalents of weights and measures. The end vocabulary is adequate for most of the book, though the authors have not succeeded (despite their claim) in including "all the words used in this textbook." This is especially true of the last four readings.

In general, the readings are related to applied physics, with some attention paid to chemistry and mathematics. Aside from material in the biographies, little, if any, attention is given to biology (and medicine), astronomy, or geology.

All in all, this is an excellent, practical textbook which students at the mentioned level should find helpful.

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## Reprints

**Animal Ecology.** W. H. Dowdeswell. Harper, New York, 1961. 223 pp. Illus. \$1.50.

**Cell and Psyche.** The biology of purpose. Edmund W. Sinnott. Harper, New York, 1961. 119 pp. \$0.95.

**Darwin's Finches.** An essay on the general biological theory of evolution. David Lack. Harper, New York, 1961. 214 pp. Illus. + plates. \$1.40.

**The Evolution of Human Nature.** C. Judson Herrick. Harper, New York, 1961. 510 pp. Illus. \$2.45.

**A First Course in Mathematical Statistics.** C. E. Weatherburn. Cambridge Univ. Press, London, 1961. 292 pp. Illus. \$2.75.

**A Guide to Earth History.** Richard Carington. New American Library, New York, 1961. 284 pp. Plates. \$0.75.

**The History of Calculus and Its Conceptual Development.** Carl B. Boyer. Dover, New York, 1949. 346 pp. Illus. \$2.

**How to Know the American Marine Shells.** H. Tucker Abbott. New American Library, New York, 1961. 222 pp. Plates. \$0.75.

**Life of the Past.** An introduction to paleontology. George Gaylord Simpson. Yale Univ. Press, New Haven, Conn., 1961. 210 pp. Illus. \$1.45.

**The Molds and Man.** An introduction to the fungi. Clyde M. Christensen. Univ. of Minnesota Press, Minneapolis, 1961. 246 pp. Illus. + plates. \$1.75.

**The Methods of Plane Projective Geometry Based on the Use of General Homogeneous Coordinates.** E. A. Maxwell. Cambridge Univ. Press, London, 1961. 249 pp. \$1.95.

**New Lives for Old.** Margaret Mead. New American Library, New York, 1961. 475 pp. Plates. \$0.75.

**Science and Music.** Sir James Jeans. Cambridge Univ. Press, London, 1961. 258 pp. Illus. + plates. \$1.95.

**A Short Account of the History of Mathematics.** W. W. Rouse Ball. Dover, New York, 1960. 546 pp. Illus. \$2.

**The Social Insects.** O. W. Richards. Harper, New York, 1961. 232 pp. Illus. \$1.50.

**Unresting Cells.** R. W. Gerard. Harper, New York, 1961. 447 pp. Illus. \$2.25.

## New Books

### Biological and Medical Sciences

**Fluorosis.** The health aspects of fluorine compounds. Edward J. Largent. Ohio State Univ. Press, Columbus, 1961. 160 pp. Illus. \$3.50.

**General Biology.** William T. Taylor and Richard J. Weber. Van Nostrand, Princeton, N.J., 1961. 955 pp. Illus.

**Genetic Aspects of Dairy Cattle Breeding.** Ivar Johansson. Univ. of Illinois Press, Urbana, 1961. 271 pp. Illus. \$7.50.

**The Human Cerebellum.** An atlas of gross topography in serial sections. Jay B. Angevine, Jr., Elliott L. Mancall, and Paul I. Yakovlev. Little, Brown, Boston, Mass., 1961. 147 pp. Illus. \$15.

**Human Psychological Development.** Elizabeth Lee Vincent and Phyllis C. Martin. Ronald, New York, 1961. 527 pp. Illus. \$6.50.

**Illustrating Medicine and Surgery.** Margaret C. McLarty. Williams and Wilkins, Baltimore, Md., 1960. 167 pp. Illus. \$8.50.

**Immunopathologie in Klinik und Forschung.** Und das Problem der Autoantikörper. P. Meischer and K. O. Vorlaender, Eds. Thieme, Stuttgart, Germany, 1961. 710 pp. Illus. \$22.50.

**Integrated Principles of Zoology.** Cleveland P. Hickman. Mosby, St. Louis, Mo., 1961. 972 pp. Illus. \$7.75.

**Lichen Handbook.** A guide to the lichens of eastern North America. Mason E. Hale, Jr. Smithsonian Institution, Washington, D.C., 1961. 188 pp. Illus.

**Microbiology.** Phillip L. Carpenter. Saunders, Philadelphia, Pa., 1961. 448 pp. Illus.

**Milk: The Mammary Gland and its Secretion.** vols. 1 and 2. S. K. Kon and A. T. Cowie, Eds. Academic Press, New York, 1961. Illus. vol. 1, 528 pp., \$14. vol. 2, 432 pp., \$12.

**Monograph of Monochaetia and Pestalotia.** Emil Frederick Guba. Harvard Univ. Press, Cambridge, Mass., 1961. 349 pp. Illus. \$10.

**Physiologie Vegetale.** R. Bastin. Université Catholique de Louvain, Louvain, Belgium, 1961. 324 pp.

**Problems of Infection, Immunity and Allergy in Acute Radiation Diseases.** N. N. Klemparskaya, O. G. Alekseyeva, R. V. Petrov, and V. F. Sosova. Translated from the Russian by Lydia Venters. R. Clarke, Ed. Pergamon, New York, 1961. 173 pp. Illus. \$7.50.

**Progress in Medical Genetics.** vol. 1. Arthur G. Steinberg, Ed. Grune and Stratton, New York, 1961. 349 pp. Illus.

**The Science of Genetics.** Charlotte Auerbach. Harper, New York, 1961. 283 pp. Illus. \$5.95.

**Studies on Quantitative Radiation Biology.** K. G. Zimmer. Oliver and Boyd, London, England, 1961. 121 pp. 15s.