

# Books of the Week

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**ADVANCES IN PHARMACEUTICAL SCIENCES**, Vol. 1—H. S. Bean, A. H. Beckett and J. E. Carless, Eds.—Academic Press, 334 p., illus., \$11.50. Covers such specialized areas as rheology, solubility in systems containing surface-active agents, and contemporary trends in heat sterilization.

**ADVANCES IN X-RAY ANALYSIS**, Vol. 7—William M. Mueller, Gavin Mallett and Marie Fay, Eds.—Plenum Press, 662 p., illus., \$22.50. Proceedings of the Twelfth Annual Conference on Applications of X-Ray Analysis, held August 7-9, 1963, sponsored by the Denver Research Institute.

**AFRICA: A Study in Tropical Development**—L. Dudley Stamp—Wiley, 2nd ed., 534 p., illus., \$10.95. Updated edition includes 1961 census figures, new chapter about Africa and the world, and country chapters are revised to include new data.

**ALGOL PROGRAMMING: A Basic Approach**—D. H. Thurnau, R. E. Johnson and R. J. Ham—Burroughs (Swallow, Alan), 158 p., paper, \$2.50. Aims to provide the nonprofessional programmer with a working knowledge of ALGOL.

**ANTHROPOLOGY**—Eric R. Wolf—Prentice-Hall, 113 p., \$4.95. A scholarly look at what American anthropology has contributed to the transformation of culture in our time.

**APPROACHES TO PALEOECOLOGY**—John Imbrie and Norman Newell, Eds.—Wiley, 432 p., illus., \$12.50. Essentially a collection of case histories by experts with many original data given in depth rather than summarized, a handbook suitable for advanced university seminars.

**ATOMS, MOLECULES AND QUANTA**, Vols. I and II—Arthur Edward Ruark and Harold Clayton Urey—Dover, 2nd rev. ed., 810 p., diagrams, paper, set of two vols. \$5. Revised republication of original (1930) edition, with supplementary notes by the authors.

**THE CAPE HATTERAS SEASHORE**—David Stick—McNally (Lane Bk. Co.), 64 p., photographs by Bruce Roberts, \$3.95; paper, \$1.95. Picture book of a sandy shore.

**EXPLORERS UNDER THE SEA**—J. Gordon Cook—Abelard-Schuman, 160 p., photographs, illus. by Leslie Haywood, \$3.75. Describes for young people the development of underwater exploration, from early diving bells to the Seapup.

**FARMER'S WORLD: The Yearbook of Agriculture 1964**—Alfred Stefferud, Ed.—USDA (GPO), 592 p., \$3. Yearbook deals with the products of U.S. farms in relation to world needs, markets and trade agreements.

**FREE SOURCES OF SCIENCE MATERIALS**—Patrick Carr—Sangaman Source Series, 24 p., paper, \$1. Lists addresses of sources grouped by subject headings, ranging from Air conditioning to Zinc.

**GENERAL BIOLOGY: Laboratory Guide**—A. Paul Davison—Burgess, 3rd ed., 194 p., illus., paper, \$3.50. Designed to help beginning students in their study of biological materials.

**HANDBOOK OF CELL AND ORGAN CULTURE**—Donald J. Merchant, Raymond H. Kahn and William H. Murphy Jr.—Burgess, rev. ed., 263 p., paper, \$6.25. Laboratory reference manual on techniques for the in vitro study of animal cells and tissue.

**INTRODUCTION TO CELL DIFFERENTIATION**—Nelson T. Spratt, Jr.—Reinhold, 115 p., illus., paper, \$1.95. Provides information in depth for the beginning student, usually found only in advanced textbooks.

**INTRODUCTION TO MOLECULAR BIOLOGY**—G. H. Haggis and others—Wiley, 401 p., illus., \$7.50. Covers important recent developments in research on living cells, protein structure and synthesis, the chemical nature of hereditary material, and the behavior of chromosomes.

**INVARIANT IMBEDDING AND TIME-DEPENDENT TRANSPORT PROCESSES**—R. E. Bellman and others—Am. Elsevier Pub. Co., 256 p., \$7.50. Discusses numerical inversion of Laplace transforms, the one-dimensional neutron multiplication process, and time-dependent diffuse reflection from a slab.

**LANGUAGE AND THOUGHT**—John B. Carroll—Prentice-Hall, 118 p., illus., \$3.95; paper, \$1.50. Describes some of the more useful and interesting results obtained in the field of scientific linguistics research and the impact of psychology of language and thought on psychology in general.

**LIGHTHOUSES OF AMERICA**—Mina Lewiton—Criterion Bks., 157 p., illus. by Howard Simon, \$4. Historical and other facts of interest about the light houses and lightships maintained by the U.S. Coast Guard.

**LIMITED WAR AND AMERICAN DEFENSE POLICY**—Seymour J. Deitchman—M.I.T. Press, 273 p., maps, \$10. Author deals expertly and comprehensively with the military, technical and policy planning aspects of the problems of limited wars such as the Korean War and those confronting the United States in Southeast Asia.

**MALARIA IN THE INTERIOR VALLEY OF NORTH AMERICA**—Daniel Drake; Norman D. Levine, Ed.—Univ. of Ill. Press, multi-paged, \$7.50. Selection of facsimile reprints from a systematic treatise (1850) on the principal diseases of the interior valley of North America, as they appeared in the Caucasian, African, Indian and Eskimo population.

**MAN AGAINST DISEASE**—Geoffrey Lapage—Abelard-Schuman, 189 p., photographs, \$3.75. Written by scientist for young people, tells of the significant medical discoveries and the researchers responsible for the advances.

## FREE CATALOGUES OF SCIENCE BOOKS

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**THE MANAGEMENT OF SCIENTISTS**—Everett Mendelsohn, Anne Roe and others; introd. by Karl Hill, Ed.—Beacon Press, 143 p., \$4.95. Essays based on lecture series sponsored by Northwestern University in 1963; subjects discussed range from psychology of scientists to the creation of management climate for effective research.

**THE MANAGEMENT OF WILD MAMMALS IN CAPTIVITY**—Lee S. Crandall—Univ. of Chicago Press, 761 p., photographs, \$13.50. Arranged by orders, the volume deals in detail and comprehensively with the advances in breeding and in maintenance methods that satisfy the physical and psychological needs of the animals on exhibit in the zoological gardens of the world.

**RADIOISOTOPES AND RADIATION: Recent Advances in Medicine, Agriculture and Industry**—John H. Lawrence, Bernard Manowitz, and Benjamin S. Loeb—McGraw, 133 p., 192 illus., \$18. Gives an account of recent U.S. progress in using radioisotopes and radiation for practical purposes, covers various areas such as medical diagnosis and research, veterinary medicine, and synthesis of chemicals.

**STATE OF STRESS IN THE EARTH'S CRUST: Proceedings of the International Conference, June 13 & 14, 1963, Santa Monica, Calif.**—William B. Judd, Ed.—Am. Elsevier Pub. Co., 732 p., illus., \$15. Presents some of the major topics of the new science of rock mechanics, incorporating the findings of underground nuclear explosions. The book explains the why and how of quantitatively measuring the stress and strain in rock.

**STATISTICAL ABSTRACTS OF THE UNITED STATES, 1964**—Edwin D. Goldfield, Dir.—Bureau of the Census (GPO), 85th ed., 1,041 p., \$3.75. Presents revised data in more than 1,300 tables and charts for the most recent period available during the early part of 1964.

**STATISTICS IN PHYSICAL SCIENCE: Estimation, Hypothesis Testing and Least Squares**—Walter Clark Hamilton—Ronald, 230 p., \$10. Comprehensive treatment of the methods of least squares, linear hypothesis testing, and multivariate analysis, intended for use by the laboratory scientist.

**THE STRANGE TACTICS OF EXTREMISM**—Harry and Bonaro Overstreet—Norton, 315 p., \$4.50. Analysis of the methods and results of the radical rightist movements in the United States.

**THE WIND**—Jeanne Bendick—Rand McNally, 80 p., illus. by author, \$2.95. Together with lighter reading explains to children some scientific facts about the wind.

**WORK AND MOTIVATION**—Victor H. Vroom—Wiley, 331 p., \$6.95. Focuses on the development of a conceptual model of motivation consistent with the results of nearly half a century of research by psychologists, economists and sociologists on the motivational determinants of occupational choice.

• Science News Letter, 86:220 Oct. 3, 1964

## Nature Note The Ajolote

➤ THE AJOLOTE LIZARD, a rare species of reptile found in Mexico's Baja California, has only two legs.

The gleaming, whitish ajolote belongs to the family of "worm lizards," the legless reptiles that have lost their limbs in the long evolutionary process of becoming burrowers into the earth.

Worm lizards live underground, mainly in the tropics, and tunnel through the earth by twisting their heads from side to side in an almost circular motion and bulldozing through the soil. The eyes of these underworld creatures are sometimes only vestiges that appear as black dots under the skin.

The ajolote is one of only three worm lizard species that still retain their front legs. These two stout clawed feet are located in front and are used for burrowing, mainly in hard-packed soil. In soft earth the legs are folded against the body and the small blunt head does most of the work.

Although the legs of this soft pale creature are only a 20th of its total length, they are used in crawling over hard surfaces, along with serpentine or caterpillar movements of the trailing body.

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