

# Books of the Week

For the editorial information of our readers, books received for review are listed. For convenience purchase of any U. S. Book in print, priced at 95¢ or over, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

**AIRCRAFT AND MISSILE DESIGN AND MAINTENANCE HANDBOOK**—Charles A. Overbey—*Macmillan*, 369 p., illus., \$9.75. Contains more than 160 tables and 40 figures to illustrate standard methods of equipment installation and maintenance.

**BENT'S LIFE HISTORY OF NORTH AMERICAN BIRDS, Vol. I: Water Birds. Vol. II: Land Birds**—Henry Hill Collins, Jr., Ed.—*Harper*, 356 p. and 374 p., \$5.95 each. Abridgement using full excerpts from Arthur Cleveland Bent's monumental work on the birds of North America.

**CAREER 1960 for the Experienced Engineer and Scientist**—William H. Ottley, Ed.—*Careers Inc.*, 109 p., illus., paper, \$1.95. Leading national employers highlight their job opportunities for experienced men.

**CATES' PRIMARY ANATOMY**—J. V. Basmajian—*Williams & Wilkins*, 4th ed., 360 p., illus., \$6.50. Textbook at university level.

**CLASSICAL MATHEMATICS: A Concise History of the Classical Era in Mathematics**—Joseph Ehrenfried Hofmann, transl. from German by H. O. Midonick—*Philosophical Lib.*, 159 p., \$4.75. Covers 17th and 18th centuries.

**THE EVERGREENS**—James H. Beale—*Double-day*, 285 p., photographs, \$4.50. Practical introduction to evergreen trees and shrubs, their characteristics, hardiness and care.

**FEDERAL SUPPORT FOR EDUCATION: The Situation Today**—F. J. Seidner—*Public Affairs Institute*, 22 p., paper, 15¢ direct to publisher, 312 Penna Ave., S.E., Washington 3, D.C. Summary of essential figures and legislative background.

**THE FIRST FIVE FATHOMS: A Guide to Underwater Adventure**—Arthur C. Clarke, introd. by Captain Jacques-Yves Cousteau—*Harper*, 83 p., photographs by Mike Wilson, \$2.75. Shows skin divers at work.

**FLUID MECHANICS**—L. D. Landau and E. M. Lifshitz, transl. from Russian by J. B. Sykes and W. H. Reid—*Pergamon (Addison-Wesley)*, 536 p., \$14.50. Describes fluid mechanics as a branch of theoretical physics.

**FOODS WITHOUT FADS: A Common Sense Guide to Nutrition**—E. W. McHenry—*Lippincott*, 159 p., \$3.50. Information for the general reader.

**GATEWAY TO SPACE**—Charles Coombs—*Morrow*, 256 p., illus., \$3.95. The story of U. S. space projects told for young people.

**HENRY FORD: Boy with Ideas**—Hazel B. Aird and Catherine Ruddiman—*Bobbs*, 192 p., illus. by Wallace Wood, \$1.95. Childhood biography for youngest readers.

**INDUSTRIAL PACKAGING**—Walter F. Friedman and Jerome J. Kipnees—*Wiley*, 536 p., illus., \$11.50. Up-to-date survey of packaging materials, methods and equipment.

**AN INTRODUCTION TO MODERN MATHEMATICS**—Robert W. Sloan—*Prentice-Hall*, 73 p., \$3.75. Develops elementary mathematics from a modern point of view, to serve as reference for high school mathematics teachers.

**KARIBA: The Struggle with the River God**—Frank Clements—*Putnam*, 223 p., photographs, map, \$3.95. Story of construction of the Kariba Dam in Central Africa, where engineers had to overcome the obstacles of primitive superstition.

**THE LAST BLUE MOUNTAIN**—Ralph Barker, foreword by Sir John Hunt—*Doubleday*, 210 p., photographs, maps, \$3.95. The struggle for survival of ill-fated expedition to the Himalayas in 1957.

**MAJOR ACTIVITIES IN THE ATOMIC ENERGY PROGRAMS, January-December 1959**—U. S. Atomic Energy Commission—*GPO*, 628 p., illus., paper, \$2. AEC's annual report on the atomic energy industry, nuclear research, and management of radioactive wastes.

**MARINE BORING AND FOULING ORGANISMS**—Dixy Lee Ray, Ed.—*Univ. of Wash. Press*, 543 p., illus., \$8.50. Proceedings of 1957 Friday Harbor Symposium, concerned with the basic biology of limnoria, terediniens and barnacles, and re-examination of present control methods.

**MODERN NUTRITION IN HEALTH AND DISEASE: Dietotherapy**—Michael G. Wohl and Robert S. Goodhart, Eds.—*Lea*, 2nd ed., 1152 p., illus., \$18.50. New sections on chemical and other food additives, and on dietary factors in atherosclerosis and coronary artery disease.

**MOLECULAR BIOLOGY: Elementary Processes of Nerve Conduction and Muscle Contraction**—David Nachmansohn, Ed.—*Academic*, 177 p., illus., \$7.50. Symposium held at the Rockefeller Institute in 1958.

**THE POPULATION EXPLOSION AND CHRISTIAN RESPONSIBILITY**—Richard M. Fagley—*Oxford Univ. Press*, 260 p., \$4.25. Analysis from a Congregational minister's perspective of the problems posed by an uncontrolled birth rate, particularly in the underdeveloped areas of Asia, Africa and Latin America.

**PRINCIPLES AND PROCEDURES FOR EVALUATING THE SAFETY OF FOOD ADDITIVES**—Food Protection Committee—*Nat. Acad. of Sciences-Nat. Res. Council*, 9 p., paper, single copies free upon request direct to publisher, 2101 Constitution Ave., Washington, D. C. Revised by Subcommittee on Toxicology.

**PROBLEMS IN THE EVALUATION OF CARCINOGENIC HAZARD FROM USE OF FOOD ADDITIVES**—Food Protection Committee, Food and Nutrition Board—*Nat. Acad. of Sciences-Nat. Res. Council*, 44 p., paper, \$1. Review of available information prepared by Subcommittee on Carcinogenesis.

**PUBLIC HEALTH**—Peter Van Avery, Ed.—*Wilson, H. W.*, 242 p., \$2.50. Collection of popularly written articles about the work and organization of public health.

**RIVERS IN THE DESERT: A History of the Negev**—Nelson Glueck—*Grove*, 303 p., illus., paper, \$2.95. Reprint of 1959 edition.

**SCIENCE EXPERIMENTS for Every Boy and Girl**—Louis W. Kleinman—*Hart*, 192 p., illus. by J. Pearson, paper, \$1. Simple experiments with air, heat, electricity, water, light, and sound.

**SCIENCE, SCIENCE, EVERYWHERE**—Ruth Cromer Weir—*Abingdon*, 47 p., illus. by Gloria Stevens, \$2. Story for youngest readers.

**SIMILARITY AND DIMENSIONAL METHODS IN MECHANICS**—L. I. Sedov, transl. from Russian by Morris Friedman, Maurice Holt, Ed.—*Academic*, 363 p., \$14. Complete development of the fundamental concepts of dimensional analysis and similarity methods.

**THE STRUCTURE OF SCIENTIFIC THOUGHT: An Introduction to Philosophy of Science**—Edward H. Madden—*Houghton*, 381 p., \$5. Essays and related selections from literature of science.

**TEXTBOOKS IN PRINT 1960**, formerly *The American Educational Catalog*—Office of Publishers' Weekly—*Bowker*, rev. ed., 131 p., title and author index, paper, \$2. Elementary and secondary school books classified by subject.

**TREASURES UNDERGROUND**—Brian Mason—*Home Lib. Press*, 32 p., illus. by R. F. Peterson, 69¢; de luxe ed., \$1.95. Introduction to minerals and metals, for children.

**TUKANI**—Helmut Sick, transl. from German by R. H. Stevens—*Eriksson-Taplinger*, 240 p., photographs, \$5. Naturalist's story of seven-year expedition into the wilderness of Central Brazil.

**UNDER A GREEN ROOF: Animals and Birds of Our Woods**—Anne Marie Jauss—*Lippincott*, 64 p., illus. by author, \$2.95. Accurate and charming introduction to the wildlife in and under trees, north and south, west and east.

**THE WALLS OF WINDY TROY: A Biography of Heinrich Schliemann**—Marjorie Braymer—*Harcourt*, 189 p., photographs, \$3.50. Biography for young people.

**WEATHER AND CLIMATE**—Julius London—*Home Lib. Press*, 34 p., illus. by George Geygan, 69¢; de luxe ed. \$1.95. Introduction to meteorology for boys and girls.

**WHAT DOES A CIVIL ENGINEER DO?**—Robert Wells—*Dodd*, 64 p., photographs, \$2.50. Word and picture story of engineering projects.

**WHEN CHILDREN MOVE FROM SCHOOL TO SCHOOL**—Bess B. Lane and others—*Assn. for Childhood Educ.*, 36 p., paper, 75¢. How to help the child face changes from known to unknown neighborhood, school and community.

**THE WONDER OF LIGHT: A Picture Story of How and Why We See**—Hy Ruchlis—*Harper*, 154 p., illus. by Alice Hirsh, photographs, \$2.95. In simple language and diagrams the author explains how light behaves, the different kinds of light and optics. Includes problems.

**WORK AND THE HEART**—Francis F. Rosenbaum and Elston L. Belknap, Eds.—*Hoeber*, 537 p., illus., \$12. Transactions of the First Wisconsin Conference on Work and the Heart. 74 experts deal with the influences of work, exercise and stress on cardiac function.

**YOUR HEART: A Handbook for Laymen**—H. M. Marvin—*Doubleday*, 335 p., \$4.50. Written by a past president of the American Heart Association.

**YOUTH LOOKS AT CANCER: An Informative Text for Secondary School Students**—Westchester Cancer Committee—*American Cancer Society*, 68 p., illus., paper, free upon request direct to publisher, 521 W. 57th Street, New York 19, N. Y.

## Questions

**ASTRONOMY**—What date is the Comet Burnham expected to get closest to the North Star? p. 179.

**ENTOMOLOGY**—What is the name of the first female centipede of its kind ever recorded? pp. 181 and 189.

**ORNITHOLOGY**—A factor that may alleviate the drought which is causing decrease in the duck population on the Pacific Coast is? p. 184.

**SURGERY**—Which method was used successfully in surgery after the patient's heart had stopped? p. 180.

Photographs: Cover, Westinghouse Electric Corporation; p. 179, U. S. Navy; p. 181, Fremont Davis; p. 183, project pictures by Westinghouse Electric Corporation, group pictures by Fremont Davis; p. 186, Fremont Davis; p. 192, W. R. Grace and Co.