

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, 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.

ACTION FOR SCIENCE UNDER NDEA—*Nat. Science Teachers Assn.*, 22 p., paper, single copies free upon request direct to publisher, 1201 - 16th St., N.W., Washington 6, D. C. Report of a conference on The National Defense Education Act of 1958.

ALASKA: The Big Land—Ben Adams—*Hill & Wang*, 213 p., illus., \$3.95, paper: \$2.25. Handbook describing the cities, industries and landscapes of the 49th State.

BASIC PHYSICS OF ATOMS AND MOLECULES—U. Fano and L. Fano—*Wiley*, 414 p., illus., \$10. Unified presentation of quantum physics through analysis of experiments, requiring a minimum of knowledge of physics and mathematics.

COLLISION COURSE: The Andrea Doria and The Stockholm—Alvin Moscow—*Putnam*, 316 p., illus., \$4.50. Factual account of the controversial sea disaster by the reporter who covered the four months of hearings for the Associated Press.

CRYOGENIC ENGINEERING—Russell B. Scott—*Van Nostrand* for the Atomic Energy Commission, 368 p., illus., \$5.60. Presents in detail the practical aspects of low-temperature processes and equipment as well as a discussion of underlying theory.

DAMS FOR RECLAMATION—U. S. Bureau of Reclamation, W. A. Dexheimer, Commissioner—*U. S. Dept. of Interior, Bureau of Reclam.*, 56 p., illus., paper, single copies free upon request direct to publisher, Commissioner's Office, Denver 2, Colo. Picture book of western dams.

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DEVELOPMENT AND STRUCTURE OF THE FROG: A Photographic Study—Addison E. Lee, Earl R. Savage and W. L. Evans—*Rinehart*, 44 p., illus., paper, \$1. For students in the biological sciences.

FOREST FIRE: Control and Use—Kenneth P. Davis with chapters by George M. Byram and W. R. Krumm—*McGraw*, 584 p., illus., \$12. First book-length treatment of fire as a phenomenon in forest resource management.

HORACE MANN: Sower of Learning—Cecile Pepin Edwards—*Houghton*, 192 p., illus., by W. T. Mars, \$1.56. Biography for grades 4-6.

IMMUNITY AND VIRUS INFECTION—Victor A. Najjar, Ed.—*Wiley*, 262 p., illus., \$10.50. Symposium reviews basic research, emphasizing the immunology and epidemiology of polio as influenced by killed and live virus vaccine.

AN INTRODUCTION TO FOURIER METHODS AND THE LAPLACE TRANSFORMATION—Philip Franklin—*Dover*, new ed., 289 p., paper, \$1.75. First published in 1949 under the title *FOURIER METHODS*.

INTRODUCTION TO GEOPHYSICS—Benjamin F. Howell, Jr.—*McGraw*, 399 p., illus., \$9. Comprehensive introductory textbook and reference work.

THE LANGUAGE AND SYMBOLOGY OF DIGITAL COMPUTER SYSTEMS—*RCA Service Co.*, 114 p., \$2. Reference and text for digital computer terminology, logic diagram symbols, and Boolean algebra as applied to modern computer systems.

LIFE GOES ON—R. Will Burnett, Jessie Williams Clemensen and Howard S. Hoyman—*Harcourt*, 2nd ed., 56 p., illus., paper, 96¢. The story of human reproduction told for high school students.

LUTHER BURBANK: Nature's Helper—Lillian J. Bragdon—*Abingdon*, 124 p., illus. by Frederick T. Chapman, \$1.75. Biography for young readers.

MECHANICAL DESIGN AND ANALYSIS—R. R. Slaymaker—*Wiley*, 418 p., illus., \$9.50. Textbook for a two-semester undergraduate course.

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MICE IN BUILDINGS: Mighty Enemies of Man—*Wisconsin Alumni Research Foundation*, 16 p., illus., paper, single copies free upon request direct to publisher, P.O. Box 2217, Madison, Wis. Describes the economic damage and spread of disease due to mice, and tells how they may be safely controlled.

MIGHTY MAC: The Official Picture History and The Mackinac Bridge—Lawrence A. Rubin—*Wayne State Univ. Press*, 147 p., photographs by Herman Ellis, \$4.95. Essay on the design of the bridge by Dr. David B. Steinman included.

THE MOTIVATION, PRODUCTIVITY, AND SATISFACTION OF WORKERS: A Prediction Study—A. Zalesnik, C. R. Christensen and F. J. Roethlisberger, assisted by George C. Homans—*Harvard Univ. Press*, 442 p., \$6. Results of research on factors influencing industrial workers.

OBLIGATORY AND FACULTATIVE INSECTS IN ROSE HIPPS: Their Recognition and Bionomics—W. V. Balduf—*Univ. of Ill. Press*, 194 p., illus., \$4.50, paper: \$3.50. Monograph.

PERSPECTIVES IN VIROLOGY: A Symposium—Morris Pollard, Ed.—*Wiley*, 312 p., illus., \$7. Explores the implications of basic developments in virology for future public health application.

PLANTS THAT HEAL—Millicent E. Selsam—*Morrow*, 96 p., illus. by Kathleen Elgin, \$2.50. The story of medicinal and poisonous plants, their use in primitive societies and today, for young readers.

PROTECTION IN DIAGNOSTIC RADIOLOGY—B. P. Sonnenblick, Ed., introd. by C. B. Braestrup—*Rutgers Univ. Press*, 346 p., illus., \$7.50. Collection and discussion of most of the pertinent papers on the subject of protection relating to diagnostic radiology.

QUANTUM PARTICLE DYNAMICS—J. McConnell—*Interscience*, 252 p., \$6. Presents fundamentals of quantum mechanics, quantum electrodynamics and meson theory to enable students to understand the main features of the theory of elementary particles.

RUSSIAN ENTRANCE EXAMINATION WITH SOLUTIONS—Rachel M. Hutchinson, Ed.—*Walch, J. W.*, 38 p., paper, \$1. Samples of algebra and geometry questions used in entrance examinations at Moscow State University.

SCIENCE BOOKS 1958—Matthew F. Vessel and Herbert H. Wong—*Fearon Pubs.*, 14 p., illus., paper, 75¢. Bibliography of children's books listed by subject matter.

SCIENCE YOU CAN USE—George K. Stone and Lucy W. Stephenson—*Prentice-Hall*, 383 p., illus. by Robert Candy, \$4.40. Elementary school general science.

THE STORY OF OUR TIMES: Encyclopedia Yearbook 1959—Marian Lockwood, Ed. in Chief—*Grolier Soc.*, 432 p., 450 illus., \$7.50. Science Service contributed the section on Science Highlights in 1958.

TREE TRAILS AND HOBBIES—Ruth Cooley Cater—*Garden City Bks.*, 324 p., illus., \$2.50. Reissue of 1950 edition, covering more than 200 species of native American trees.

THE WAY THINGS ARE—P. W. Bridgman—*Harvard Univ. Press*, 333 p., \$5.75. An individual assessment of the nature of experience and the world as man knows it by the Nobel Prize winning physicist.

WONDERS UNDER A MICROSCOPE—Margaret Cosgrove—*Dodd*, 62 p., illus. by the author, \$2.95. Explains how microscope works, how to use it, and shows the young scientist what to look for.

WORKING ABROAD: A Discussion of Psychological Attitudes and Adaptation in New Situations—Comm. on International Relations—*Group for the Advancement of Psychiatry*, Report No. 41, 46 p., paper, 50¢. For the use of psychiatrists, and to help personnel officers responsible for the selection and effectiveness of personnel abroad.

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