

# Books of the Week

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**ADVANCES IN ECOLOGICAL RESEARCH**, Vol. 3—J. B. Cragg, Ed.—Academic Press, 324 p., plates, diagrams, \$12.50. Deals in detail with distribution and abundance of lake-dwelling tri-clads, energetics and animal productivity, the production of marine plankton, and dynamics of field population of pine looper.

**APPLICATIONS OF MASS SPECTROMETRY TO ORGANIC CHEMISTRY**—R. I. Reed—Academic Press, 256 p., diagrams, \$9.80. On fundamentals of mass spectra, the fragmentation of hydrocarbons, the fragmentation patterns of heterocompounds, the mass spectrometry of natural products and of mixtures, and analysis of spectra.

**APPLICATIONS OF SPECTROSCOPY TO ORGANIC CHEMISTRY**—J. C. D. Brand and G. Eglinton—Daniel Davey, 234 p., diagrams, \$12. A unified introductory treatment of the application of the three prime spectroscopic methods, nuclear magnetic resonance, infrared and ultraviolet.

**ART AND ARCHAEOLOGY**—Shirley Glubok—Harper, 48 p., designed by Gerard Nook, photographs, \$3.95. Introduces young people to the excitement of archaeological discovery.

**A COURSE IN THERMODYNAMICS**—Joseph Keating—Blaisdell Pub. Co., 615 p., diagrams, \$14.50. Text presents chemical thermodynamics as a connected, logical sequence to provide a unifying basis for the scientific foundations of engineering.

**DESERT CHALLENGE: An Interpretation of Nevada**—Richard G. Lillard—Univ. of Neb. Press, 397 p., illus., paper, \$1.60. Reprint (1942).

**DEVELOPMENTAL GENETICS**—Frederick J. Gottlieb—Reinhold, 118 p., illus., paper, \$1.95. Explores the role played by genetics in the development of form and function.

**A DRAUGHT OF FISHES**—F. D. Ommanney—Crowell, 254 p., color plates, illus., \$6.95. A marine biologist's book for the general reader about life, breeding and movement of fish, worldwide methods of fishing and fish-breeding, fish as harvest and fish as food.

**THE ECONOMY BEHIND THE BAMBOO CURTAIN: SRI Journal**, Feature Issue 3—Francis P. Hoerber—Stanford Research Institute, 40 p., illus., paper, \$1 direct to publisher, Menlo Park, Calif. 94025. Presents the substance of recent studies on the capabilities and probabilities of mainland China.

**EDUCATION FOR POSITIVE MENTAL HEALTH: A Review of Existing Research and Recommendations for Future Studies**—James A. Davis—Aldine Pub. Co., 192 p., \$6.95. Brings together in one volume and evaluates important findings in regard to the major variables, relations among variables and experimental attempts at influence.

**FISH DO THE STRANGEST THINGS**—Leonora and Arthur Hornblow—Random House, 60 p., illus. by Michael K. Frith, \$1.95. Fascinating facts on fish behavior for beginning readers.

**FLUOROCARBONS AND THEIR DERIVATIVES**—R. E. Banks—Daniel Davey, 161 p., plates, diagrams, \$6. Up-to-date source of basic information on fluorocarbon chemistry.

**GERIATRIC PSYCHIATRY: Grief, Loss and Emotional Disorders in the Aging Process**—Martin A. Berezin and Stanley H. Cath, Eds.—International Universities Press, 380 p., \$7.50. Combines clinical observations of elderly patients with survey reports dealing with the composition of the aged population and prevailing forms of illness.

**GOOD HUNTING: Fifty Years of Collecting and Preparing Habitat Groups for the American Museum**—James L. Clark—Univ. of Okla. Press, 242 p., plates, \$5.95. Autobiography of a collector of museum specimens in Africa, Central Asia, Indo-China and North America.

**HUMAN PALAEOPATHOLOGY: Proceedings of 1965 Symposium held in Washington, D.C.**—Saul Jarcho, Ed.—Yale Univ. Press, 182 p., illus., \$7.50. Papers and discussion of the historical development, present status and needs of human palaeopathology in the U.S., some of its basic problems, and findings made at a number of archaeological sites.

**IN THE FOREST AND ON THE MARSH**—G. A. Skrebitski, transl. from Russian by Anne Terry White—Braziller, 164 p., illus., \$3.95. Collection of bird and animal stories by a Russian hunter-naturalist, for young people.

**INPUT-OUTPUT ECONOMICS**—Wassily Leontief—Oxford Univ. Press, 257 p., diagrams, \$8.50. Technical and nontechnical essays illustrating input-output analysis as a practical extension of the classical theory of general interdependence which views the whole economy of a region, a country, or even the entire world as a single system and sets out to interpret its functions in terms of measurable properties of its structure.

**MASS SPECTROMETRY: A NATO Advanced Study Institute on Theory, Design and Applications held in Glasgow, August 1964**—R. I. Reed, Ed.—Academic Press, 463 p., illus., \$16. Discussions range from magnetic deflection instruments to ion-molecule reactions.

**MIND, MATTER AND METHOD: Essays in Philosophy and Science in Honor of Herbert Feigl**—Paul K. Feyerabend and Grover Maxwell—Univ. of Minn. Press, 524 p., \$9.75. Essays deal with the body-mind problem, the problems of philosophical induction and confirmation, and the philosophy of the physical sciences.

**PROCESSES OF ORGANIC EVOLUTION**—G. Ledyard Stebbins—Prentice-Hall, 191 p., illus., paper, \$2.50. Designed to serve as a basic or supplementary text, presenting the undergraduate student with an account of the processes of evolution as they have been analyzed and clarified during the past 40 years.

**RADIO CONTROL OF ROCKETS**—M. V. Maksimov and G. I. Gorgonov, transl. from Russian—NASA TT F-367 (CFSTI), 713 p., diagrams, paper, \$7.25. Presents the principles of design and elements of the theory of systems for the radio control of rockets and radio fuses.

**RARE EARTH RESEARCH: Proceedings of the Fourth Conference 1964**—LeRoy Eyring, Ed.—Gordon & Breach, 749 p., illus., professional ed. \$19.50; ref. ed. \$39.50. Deals with magnetic and electrical properties of rare earth compounds, optical properties and solid state chemistry of rare earth materials.

**RUSSIAN PRONUNCIATION ILLUSTRATED**—Dennis Ward—Cambridge Univ. Press, 101 p., drawings by George Him, \$1.45. Witty illustrated material for pronunciation practice either in class or for students working on their own.

**SAFETY LAST: An Indictment of the Auto Industry**—Jeffrey O'Connell and Arthur Myers—Random House, 226 p., \$4.95. Appalled by the high fatality figures of U.S. traffic accidents, a specialist in the law of automobile accidents and a journalist here probe into the part the automotive industry has failed to play in raising the standards of safety in car design.

**SELF AND SOCIETY: Social Change and Individual Development**—Nevitt Sanford—Athenon Press, 381 p., \$8.50. Psychologist develops theory of personality and society, and offers developmental model to guide work in social institutions responsible for individual growth and development.

**SENSORY RECEPTORS: Cold Spring Harbor Symposia on Quantitative Biology, Vol. XXX**—John Cairns, Dir., Leonora Frisch, Ed.—Cold Spring Harbor Laboratory, 649 p., illus., \$15. Papers devoted mainly to advances in sensory transduction research, discussing mechanoreceptors, hearing, olfactory receptors and photoreceptors.

**THE SHIPBUILDERS: From Clipper Ships to Submarines to Hovercraft**—D. S. Halacy, Jr.—

Lippincott, 160 p., plates, \$3.75. Traces the development of modern seacraft from the time of the clippers to the present day.

**SIGNIFICANT ACHIEVEMENTS IN PARTICLES AND FIELDS, 1958-1964**—W. Hess, G. Mead and M. P. Nakada, NASA—GPO, 94 p., illus., paper, 50¢. Summarizes progress in space research concerning the solar wind, radiation belts, earth's magnetic field, solar energetic particles and cosmic rays.

**SLEEP, DREAMS AND AROUSAL**—Edward J. Murray—Appleton, 407 p., diagrams, \$7. With comprehensive survey of interdisciplinary research findings, the book attempts a motivational analysis of sleep and related processes.

**STREET GANG WORK: Theory and Practice**—Irving Spiegel—Addison-Wesley, 249 p., \$5.95. An attempt to fuse theory and the findings of research with professional experience, selecting street work programs with delinquent and potentially delinquent groups to highlight successful methods of social work practice.

**SUPERCONDUCTIVITY**—M. Tinkham—Gordon & Breach, 84 p., \$4.50; paper \$2.50. Based on lecture notes from 1961 Les Houches Summer School of Theoretical Physics.

**TARGET MOON**—Fred Warshofsky—Four Winds Press, 128 p., photographs, diagrams, \$2.50. Introduces young students to relevant U.S. projects and the scientific effort involved in probing the moon.

**TECHNOLOGY AND THE AMERICAN ECONOMY: Report of the National Commission on Technology, Automation and Economic Progress, Vol. 1, 1966**—Howard R. Bowen, Chmn.—GPO, 115 p., paper, 75¢. Report based on extensive supporting documents and studies, represents the combined judgment and general findings of the members of the Commission.

**TEXTBOOKS IN PRINT 1966**—Phyllis B. Steckler, Ed.—Bowker, 476 p., paper, \$4. More than 130,000 texts for use in elementary and secondary schools, classified by subject, with author and title index.

**TODAY'S VD CONTROL PROBLEM: A Joint Statement**—Committee on the Joint Statement 1966, William L. Fleming, Chmn.—Am. Social Health Assn., 94 p., paper, \$1. Findings and recommendations based in 1964/65 figures on the United States and Territories.

**TUNNEL THROUGH TIME**—Lester del Rey—Westminster Press 153 p., \$3.50. Science fiction excursion into pre-historic times, for young people.

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