

# Books of the Week

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**AEC AUTHORIZING LEGISLATION FISCAL YEAR 1966:** Hearings, Parts 1, 2 and 3—Joint Committee on Atomic Energy, Chet Holifield, Chmn.—GPO, 1,926 p., illus., paper, \$2.25, \$1.50 and \$2. First part deals with research programs in general, part 2 with reactor development programs, and part 3 with civilian power projects.

**AERODYNAMIC DESIGN OF AXIAL-FLOW COMPRESSORS:** Irving A. Johnsen and Robert O. Bullock, Eds.—NASA (GPO), rev. ed., 508 p., diagrams, paper, \$3. Updated and carefully reexamined for current validity by members of the staff of NASA's Lewis Research Center, Cleveland, Ohio.

**ANIMALS OF THE ARCTIC:** Gwynne Vevers—McGraw, 32 p., illus. by Maurice Wilson, \$2.95. Handsomely illustrated, informative book for young children.

**APPLIED LOGIC:** An Introduction to Scientific Reasoning—Michael Scriven—Behavioral Research Labs., 272 p., paper, \$4.94. A programmed text.

**BEFORE YOU BUY A HOUSE:** Robert A. Marshall, Ed.—Kiplinger Washington Eds. (Hammond), 96 p., paper, \$1.95. Brings together the many technical details it is well to consider before deciding on home ownership.

**THE BIG CATS:** Desmond Morris—McGraw, 32 p., illus. by Barry Driscoll, \$2.95. About lion, tiger, leopard, and cheetah.

**THE BIOLOGY OF TISSUE TRANSPLANTATION:** Paul S. Russell and Anthony Monaco—Little, Brown, 207 p., illus., \$6.75. Monograph based on articles originally published in the New England Journal of Medicine, summarizing the current state of knowledge in the field.

**THE BIOSYNTHESIS OF MACROMOLECULES:** Vernon M. Ingram—Benjamin, 223 p., diagrams, \$8; paper, \$3.95. Designed to complement current

biochemistry texts, covers in detail the biosynthesis of DNA, RNA, proteins and polysaccharides.

**BROMELIADS:** The Colorful Houseplants—Jack Kramer—Van Nostrand, 113 p., 18 color photographs, drawings by A. R. Addison, \$5.95. A practical and informative guide to 150 species, with comprehensive chart.

**CLEAN THE AIR!** Fighting Smoke, Smog and Smaze Across the Country—Alfred Lewis—McGraw, 96 p., photographs, \$3.50. Summarizes the problems of air pollution.

**THE CURIOUS WORLD OF SNAKES:** Alfred Leutscher—McGraw, 32 p., illus. by Barry Driscoll, \$2.95. For boys and girls.

**DORLAND'S ILLUSTRATED MEDICAL DICTIONARY:** L. R. C. Agnew and others, Eds.—Saunders, rev. 24th ed., 1724 p., illus., \$13; deluxe ed., \$17. Most extensively revised edition in the 65 years this standard dictionary has served biomedical scientists, students and physicians.

**THE FAITHS OF MANKIND:** A Guide to the World's Living Religions—Geoffrey Parrinder—Crowell, 207 p., photographs, \$4.95. Outlines the major faiths men live by, their histories and influence.

**FIELD-EFFECT TRANSISTORS:** Leonce J. Sevin Jr.—McGraw, 130 p., illus., \$10. A comprehensive coverage of the physical theory, electrical characterization and circuit applications of FET.

**THE FOUNDER'S TOUCH:** The Life of Paul Galvin of Motorola—Harry Mark Petrakis—McGraw, 240 p., photographs, \$4.95. The story of a successful American businessman.

**FROM SEMAPHORE TO SATELLITE:** Anthony R. Michaelis—ITU (Geneva), 343 p., photographs, illus., \$9.50. Published by the International Telecommunication Union on the occasion of its Centenary, reviewing the 100 years of international cooperation in telecommunication which started from small beginnings in Paris on May 17, 1865, when 20 European members signed the first ITU convention. Today its 120 members cover the globe.

**FUNCTIONALS AND THEIR APPLICATIONS:** Selected Topics Including Integral Equations—Griffith Conrad Evans—Dover, 147 p., paper, \$1.50. Reprint (1918).

**GOLD:** Recovery, Properties and Applications—Edmund M. Wise—Van Nostrand, 367 p., \$12. A thorough examination of the physical, chemical and metallurgical properties of gold, its alloys and its many applications.

**THE GREEKS:** A Great Adventure—Isaac Asimov—Houghton, 326 p., illus., \$4. Beginning more than 4000 years ago, the author tells of the heritage the Greeks have left to the world.

**HEATH SCIENCE SERIES, Book 1:** Science for Work and Play. Book 2: Science for Here and Now. Book 3: Science Far and Near. Book 4: Science in Your Life—Herman and Nina Schneider—Heath, 3rd ed., 297 p., 409 p., 469 p., 530 p., illus., \$2.60, \$2.84, \$3.12 and \$3.32. Revised series stresses science in action to enable children to find out what science is through observing, measuring, recording and interpreting simple facts and concepts.

**HELLENIC TRAVELLER:** A Guide to the Ancient Sites of Greece—Guy Pentreath—Crowell, 338 p., photographs, \$5.95. Covers besides the well-known places many lesser known ones, including islands, Macedonia, Istanbul and Asia Minor.

**HISTORY AND HISTORIANS:** Fon W. Boardman, Jr.—Walck, 131 p., \$3.75. A succinct and broad review of 2,500 years of historical narrative.

**HISTORY OF BIOLOGY:** Eldon J. Gardner—

Burgess, 2nd ed., 376 p., illus., \$6. Presents the main landmarks and themes in the human understanding of the life sciences.

**INTRODUCTION TO MATHEMATICS WITH APPLICATIONS:** Herbert Barkan and Carl Konova—Van Nostrand, 365 p., diagrams, \$7.95. Textbook designed to prepare freshman for a fundamental understanding of mathematics and calculus.

**JOURNEY INTO ICE:** John Franklin and the Northwest Passage—Ann and Myron Sutton—Rand McNally, 268 p., photographs, maps, \$4.50. Biography for young people.

**THE LAND AND PEOPLE OF CENTRAL AMERICA:** Ruth Karen—Lippincott, 160 p., photographs, map, \$3.25. Portrays the countries of Central America, from Guatemala to Panama.

**LIFE CYCLES OF PLANTS:** Chart R—Frank E. Egler—National Audubon Soc., 14" x 22" chart, illus. by H. E. Van Deusen, paper, 25¢ direct to publisher, 1130 Fifth Ave., New York, N.Y. 10028. Shows life cycle of four major groups of plants—mosses, ferns, gymnosperms and angiosperms.

**MICHAEL FARADAY:** A Biography—L. Pearce Williams—Basic Bks., 532 p., illus., \$12.50. In this carefully researched work the author tries to give a full picture of Faraday the man and Faraday the scientist in the perspective of his contributions to modern science.

**MICROSTRUCTURE OF MATTER:** Clifford E. Swartz—USAEC, 60 p., illus., paper, single copies free upon request direct to publisher, P.O. Box 62, Oak Ridge, Tenn. 37831. On the nature of particles, interactions, conservation laws and the tools used for their exploration.

**A MISCELLANY OF PUZZLES:** Mathematical and Otherwise—Stephen Barr—Crowell, 146 p., illus., \$3.50. A new assortment of intriguing brain teasers.

**MONORAILS:** Derek G. T. Harvey—Putnam, 95 p., photographs, illus., \$2.75. A history of monorails with views from many parts of the world, for young people.

**1965 UNITED STATES AIRCRAFT, MISSILES AND SPACECRAFT:** James J. Haggerty, Jr., Ed.—Nat'l Aerospace Educ. Council, 168 p., photographs, illus., paper, \$2. The highlights of aerospace progress in 1964.

**THE NON-VERBAL CHILD:** Sol Adler—Thomas, C. C., 163 p., diagrams, \$6.75. A simplified clinical guide.

**THE PHARMACOPEIA OF THE UNITED STATES OF AMERICA:** U.S.P. XVII—Lloyd C. Miller, Dir. of Revision—U.S. Pharmacopoeial Convention (Mack Pub Co.), 1156 p., \$12.50. Authoritative source of standards for strength and purity for most established drugs in use today.

**PHOTOGRAPHY AND THE AMERICAN SCENE:** A Social History, 1839-1889—Robert Taft—Dover, 546 p., 322 illus., paper, \$3. Reprint (1938).

**PHOTOGRAPHY AND THE LAW:** George Chernoff and Hershel Sarbin—Oblitron Bks., 128 p., photographs, \$3.95. A practical guide to the law as it is currently interpreted by the courts, discussing still unsettled areas of agreement and disagreement.

**PSYCHOANALYSIS AND SOCIAL RESEARCH:** The Psychoanalytic Study of the Non-Patient—Herbert Hendin, Willard Gaylin and Arthur Carr—Doubleday, 106 p., \$2.95. This NIH-sponsored pilot study attempts to show to what extent unmotivated well people respond to psychoanalytic probing designed to throw light on psychosocial problems.

**RESEARCH IN DEMYELINATING DISEASES:** Labe C. Scheinberg, Marian W. Kies and Ellsworth C. Alvord, Jr., Eds.—N. Y. Acad. of Sciences, Annals, Vol. 122, Art. 1, 570 p., illus., paper, \$12. Papers of conference cosponsored by the National Multiple Sclerosis Society, January 1964.

**RUSSIAN AIRCRAFT:** Hugo Hooftman—Aero Publishers, 158 p., photographs, \$8.50. Brings together collected figures and details on postwar Soviet developments in aviation, warplanes, helicopters, jet fighters and airliners.

**SAFETY AND ACCIDENT PREVENTION IN CHEMICAL OPERATIONS:** Howard H. Fawcett and William S. Wood—Interscience, 617 p., illus., \$19.75. A treatise on safety in the chemical industry, approaching the problem from the point of view of management.

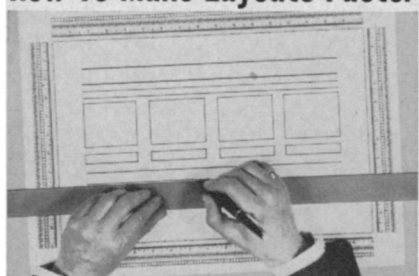
**SCIENCE EDUCATION IN THE SCHOOLS OF THE UNITED STATES:** Report of the National Science Foundation—Committee on Science and Astronautics, 125 p., paper, single copies free upon request direct to Committee, U.S. House of Representatives, Washington, D.C. Describes the major areas of concern in the overall government-science complex.

**SCIENTISTS WHO WORK WITH CAMERAS:** Lynn and Gray Poole—Dodd, 176 p., photographs, \$3.50. About scientists who make records with strobe light, investigate the sky with instruments airborne by balloons, use television cameras in outer space, and film with laser light.

**SHOW TIME FOR YOUNG SCIENTISTS:** Entertaining with Science—George Barr—McGraw, 158 p., illus. by Mildred Waltrip, \$3.50. Describes simple tricks and demonstrations in different fields of science.

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