

# Books of the Week

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**COMPUTER APPLICATIONS, 1962**—Milton M. Gutterman and Robert S. Hollitch—Spartan Bks., 224 p., illus., \$7. Proceedings of the 1962 Computer Applications Symposium sponsored by IIT Research Institute, Chicago.

**DIGS AND DIGGERS: A Book of World Archaeology**—Leonard Cottrell—World Pub. Co., 285 p., illus., photographs, \$4.95. A readable and authoritative review of the progress in archaeology, from romantic exploration to scientific excavation, gradually revealing the complex history of the human race.

**EARLY AMERICAN SCIENTIFIC INSTRUMENTS AND THEIR MAKERS**—Silvio A. Bedini—U.S. National Museum (GPO), 184 p., illus., paper, \$1. About early American mathematical practitioners, and their instruments of metal and wood.

**ELECTROCHEMISTRY OF MOLTEN AND SOLID ELECTROLYTES, Vol. 2**—M. V. Smirnov, Ed., transl. from Russian—Consultants, 96 p., illus., paper, \$17.50. Original Transactions No. 4 of the Institute of Electrochemistry, Urals Academy of Sciences, Sverdlovsk, 1963.

**ELEMENTARY THEORY OF ELECTRIC AND MAGNETIC FIELDS**—Warren B. Cheston—Wiley, 393 p., diagrams, \$9.75. Written for advanced undergraduate courses.

**EXPLORERS OF THE WORLD**—William R. Clark—Nat. Hist. Press (Doubleday), 252 p., paintings by Hans Schwarz, maps, \$5.95. Designed to interest particularly the junior high school level, this book reviews the dramatic facts of past and recent expeditions to remote places of the earth.

**THE FIRST BOOK OF MOUNTAINS**—Frances Smith—Watts, Franklin, 87 p., photographs, \$2.65. About how mountains are made and worn down, particular mountain ranges and mountaineering science.

**GALEN CLARK: Yosemite Guardian**—Shirley Sargent, foreword by Carl P. Russell—Sierra Club, 176 p., photographs, \$5.75. A carefully researched biography of the explorer, homesteader and first guardian and interpreter of Yosemite National Park.

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**HEAT BIBLIOGRAPHY, 1963**—National Engineering Laboratory, I. Murray, Ed.—HMSO (British Inform. Services, N.Y.), 485 p., \$7. References to papers published in 1963 and earlier, subject divisions ranging from Analogies to Thermodynamics.

**HEREDITY AND THE NATURE OF MAN**—Theodosius Dobzhansky—Harcourt, 179 p., illus., \$4.75. Distinguished geneticist's thoughts on the nature of the human species, on race, mutations and evolution.

**THE HISTORY OF FLIGHT**—Arthur Gordon, Eds. of American Heritage; adapted for young readers by Sarel Eimerl—Golden Press, 105 p., illus., \$3.95. Colorful story of aviation, from early ballooning to jets.

**ICEBERGS**—Roma Gans—Crowell, unpagd, illus. by Bobri, \$2.75. For very young readers.

**INTERVIEW GUIDE HANDBOOK**—Auerbach Corporation—OTS, multipagd, diagrams, paper, \$5.60. Developed for use in Department of Defense Study to determine how information is acquired and used to carry out technical tasks by research, development, test and evaluation personnel.

**LIBRARIES AND AUTOMATION: Proceedings of 1963 Conference held at Airlie Foundation, Warren, Va.**—Barbara Evans Markuson, Ed.—Library of Congress (GPO), 268 p., illus., \$2.75. State-of-the-art papers and discussion of automated file organization and storage, graphic storage, output printing, and library communications networks.

**MASTERS OF THE SCALPEL: The Story of Surgery**—Sarah R. Riedman—Rand McNally, 320 p., 60 photographs, paper, \$2.25. Reprint (1962) of highly readable account of the outstanding advances in surgery.

**METALS, ATOMS AND ALLOYS**—Charles Law McCabe and Charles L. Bauer—NSTA (Scholastic Book Services), 127 p., illus., paper, 50¢ direct to publisher, 50 W. 44th St., New York, N.Y. Presents research in modern metallurgy and suggests student projects at high school level.

**NEW BIOCHEMICAL SEPARATIONS**—A. T. James and L. J. Morris, Eds.—Van Nostrand, 424 p., illus., \$12.50. Reference and laboratory handbook giving up-to-date account of the most promising techniques, with emphasis on practical details for laboratory use.

**NUTRITION SCIENCE AND YOU**—Olaf Mickelsen—NSTA (Scholastic Book Services), 127 p., illus., paper, 50¢ direct to publisher, 50 W. 44th St., New York, N.Y. Written for junior and senior high school students.

**PHYSICS OF THE AIR**—W. J. Humphreys, new preface by Julius London—Dover, 676 p., illus., paper, \$3. Unabridged republication of third (1940) edition of classical work on atmospheric physics.

**THE PILL AND BIRTH REGULATION**—Leo Pyle, Ed.—Helicon Press (Taplinger), 225 p., \$3.95; paper, \$1.65. Presents a selection of world-

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## THE MATH ENTERTAINER

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wide Catholic opinion on birth control, including statements, articles and letters from the Pope, bishops, priests and married and unmarried laity.

**A PRAGUE SCHOOL READER IN LINGUISTICS**—Josef Vachek—Indiana Univ. Press, 485 p., \$12.50. Anthology of basic papers on general linguistic issues, written in English, French and German, mostly originating between the years 1928-1948.

**PREFACE TO PHILOSOPHY**—H. P. Rickman—Schenkman Pub. Co., 215 p., \$4.95. On the relevance of philosophy to human problems.

**PROTOZOA: The Simplest of All Animals**—Richard P. Hall—Holt, 122 p., illus., \$2.50; paper, \$1.28. Examines structure and physiology, and gives classification of Phylum Protozoa.

**THE RISE AND FALL OF THE SEAS: The Story of the Tides**—Ruth Brindze—Harcourt, 96 p., photographs, diagrams by Felix Cooper, \$3.50. Tells young people how tides are predicted, about tidal hazards and life forms, and how tidal power might be harnessed.

**SCIENCE COURSE IMPROVEMENT PROJECTS: College and University, Secondary School, Elementary School**—National Science Foundation—GPO, 77 p., paper, 50¢. Lists and describes courses, written materials, films, studies in mathematics, science and engineering.

**SO YOU WANT TO BE A CHEMIST**—Alan E. Nourse with James C. Webber—Harper, 164 p., \$3.50. Practical and readable guide to chemistry as a career.

**THE STORY OF BIOCHEMISTRY**—Justine Glass—Philosophical Lib., 232 p., illus., \$10. Reviews developments in biochemic therapy, from Paracelsus to our time.

**THE STORY OF COMPUTERS**—Roger Piper—Harcourt, 186 p., photographs, diagrams by Felix Cooper, \$3.50. Explains for young adults how the high speed machines work that are revolutionizing so many areas of human activities.

**THE TECHNOLOGICAL SOCIETY**—Jacques Ellul, transl. from French by John Wilkinson, introd. by Robert K. Merton—Knopf, 464 p., \$10.95. French sociologist's detailed analysis of the effect of an increasingly standardized culture on the future of man.

**THERMAL IMAGING TECHNIQUES**—Peter E. Glaser and Raymond F. Walker, Eds.—Plenum Press, 280 p., illus., \$12.50. Conference proceedings of particular interest to experimentalists in the physical sciences seeking a better understanding of the behavior of materials at high temperatures.

**TIDE POOLS AND BEACHES**—Elizabeth Clemens—Knopf, 84 p., illus. by Joe Gault, \$2.95. An identification book for the young collector, with hints about cleaning, drying and storing sea animals and plants.

**VERTICAL FLIGHT AIRCRAFT OF THE WORLD**—F. G. Swanborough—Aero Pubs., 120 p., 300 photographs, \$5. Brings together data and illustrations on VTOL aircraft, including helicopters and autogyros.

**WHEN ANIMALS ARE BABIES**—Elizabeth and Charles Schwartz—Holiday House, 36 p., illus. by C. Schwartz, \$3.25. Written and illustrated by biologists, in language a pre-school child can understand.

**WILD FLOWERS IN SOUTH CAROLINA**—Wade T. Batson—Univ. of S.C. Press, 146 p., 145 color photographs, \$5. Glossary, generic key, description of the mountain, piedmont, sand hills and coastal plain flora of the state.

**WILDLIFE ON THE PUBLIC LANDS**—Bureau of Land Management—USDI (GPO), 36 p., color photographs, maps, paper, 35¢. Shows by region the natural communities and habitats in the United States.

**WORLD COMMUNICATIONS: Press, Radio, Television, Film**—UNESCO (N.Y.), 4th rev. ed., 380 p., illus., maps, \$11. Authoritative reference work for mass communication studies, reviews continent-by-continent the pattern of communication, with statistical pictographs, and country-by-country information on communication facilities.

• Science News Letter, 86:316 November 14, 1964

## Do You Know?

An enzyme drug derived from papaya has been effective in reducing the swelling that accompanies athletic injuries, thus speeding the healing process and the return to the lineup.

*Peroxides* for the rubber and plastics industries can be made from pine gum by a process known as photosensitized oxidation.

• Science News Letter, 86:316 November 14, 1964