

# Books of the Week

For the editorial information of our readers, books received for review 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.

**AN ACCOUNT OF THE ASTRONOMICAL DISCOVERIES OF KEPLER**—Robert Small, foreword by William D. Stahlman—Univ. of Wis. Press, 386 p., \$5.50. A reprinting of the 1804 text of Kepler's scientific work.

**THE ADVANCE OF THE FUNGI**—E. C. Large—Dover, 488 p., illus., paper, \$2.25. Unabridged and corrected republication of work first published in 1940.

**ANTHROPOLOGY A to Z**—Carleton S. Coon and Edward E. Hunt, Jr., Eds.—Grosset, 277 p., illus., paper, \$2.50. Based on the 1959 edition of "Anthropologie" of the German Fischer Lexikon series.

**ANTIBODY TO ENZYMES: A Three-Component System**—B. Cinader, Ed.—N.Y. Acad. of Sciences, Annals, Vol. 103, Art. 2, 661 p., illus., paper, \$8. On research in immunochemistry, using the biosynthetic approach, such as in the reaction mechanisms of the interaction of enzymes, antibody and substrate.

**ARCHIMEDES AND HIS WONDERFUL DISCOVERIES**—Arthur Jonas—Prentice-Hall, 70 p., illus. by Aiki, \$2.95. Informative book for young readers with simple home experiments and humorous illustrations.

**ATOMIC THEORY AND THE DESCRIPTION OF NATURE: Four Essays with Introductory Survey**—Niels Bohr—Cambridge Univ. Press, 119 p., paper, \$1.65. Reprint (1934, 1961) of four articles addressed to physicists, in non-technical language.

**ATOMPOWER**—Joseph M. Dukert—Coward-McCann, 125 p., photographs, diagrams by John T. Gorsuch, \$3.50. Explains in simple terms what nuclear energy is and how it is put to work.

**BIOCHEMICAL INDIVIDUALITY: The Basis for the Genetrophic Concept**—Roger J. Williams—Science Editions (Wiley), 214 p., illus., paper, \$1.95. Reprint (1956), treats the variability in human biology at the physiological and biochemical levels.

**BODILY CHANGES IN PAIN, HUNGER, FEAR AND RAGE: An Account of Researches into the Function of Emotional Excitement**—Walter B. Cannon—Harper, 2nd ed., 404 p., illus., paper, \$2.45. Originally published in 1915, revised in 1929, reprinted as a classic in physiology.

**CAREERS AND OPPORTUNITIES IN ELECTRONICS**—John M. Carroll—Dutton, 191 p., photographs, \$3.95. A guide to careers for well-trained young people as electronic engineers, scientists, technicians, and production workers.

**CAREERS IN CONSERVATION: Opportunities in Natural Resources**—Henry Cleppers, Ed.—Ronald, 141 p., photographs, \$3.75. Guide to career opportunities in resource management, such as soil conservation, fisheries, forestry and watershed management.

**CLASSICS IN POLITICAL SCIENCE**—Joseph S. Roucek—Philosophical Lib., 378 p., \$6. Annotated excerpts from the writings of political thinkers, ranging from John Adams to Max Weber.

## ASTRONOMY

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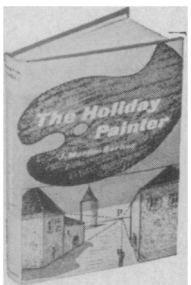
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**COMMUNICATION: The Art of Understanding and Being Understood**—Robert O. Bach, Ed.—Hastings House, 140 p., illus., \$6.95. Experts from fields as varied as semantics and photography, examine the problems of verbal, written and pictorial communication today.

**DISCOVERING SCIENTIFIC METHOD: With Science Puzzle Pictures**—Hy Ruchlis—Harper, 190 p., photographs, diagrams by Jean Krulis, \$3.95. Introduces young people to the principles of scientific method, observation, deductive reasoning, application of pertinent facts, hypothesis, experiment and measurement.

**DRAGON BONES IN THE YELLOW EARTH**—James and Irving Crump—Dodd, 210 p., photographs, maps, illus., \$4. Written by and for amateurs, this is a story of archaeological exploration and research in northern China in the present century.

**ELEMENTARY MATHEMATICAL PROGRAMMING**—Robert W. Metzger—Science Editions (Wiley), 246 p., paper, \$1.95. Reprint (1958).

**ELEPHANT VALLEY**—Elizabeth Balneaves—Rand McNally, 179 p., photographs, \$4.95. Adventures in Northern Rhodesia among the dispossessed Tonga people and the wild animals flooded out by the Kariba Dam construction.

**ENRICHMENT MATHEMATICS FOR THE GRADES: Twenty-Seventh Yearbook**—Julius H. Hlavaty and others, Eds.—Nat. Council of Teachers of Mathematics, 368 p., illus., \$3; paper, \$1.50. Resource material for teachers to provide for the special needs of the academically talented student.

**EXPLORERS OF THE INFINITE: Shapers of Science Fiction**—Sam Moskowitz—World Pub. Co., 353 p., \$4.50. Appraises some of the contributions of writers "utilizing an atmosphere of scientific credibility for imaginative speculations in physical science, space, time, social science and philosophy."

**FROM GALILEO TO NEWTON, 1630-1720**—A. Rupert Hall—Harper, 380 p., illus., \$6. This third volume of "The Rise of Modern Science" series covers the period when mathematics became the key to the science of motion and when attention to observation and experiment laid the foundations to the new era of science.

**FUNDAMENTALS OF NEUROLOGY**—Ernest Gardner—Saunders, 4th ed., 349 p., illus., \$6.25. Updated text, presents the concepts of neurology necessary as foundations for more detailed studies.

**GEOGRAPHY OF WORLD AFFAIRS**—J. P. Cole—Penguin, 2nd ed., 320 p., maps, paper, \$1.25. Up-to-date information on the location, population, size and activities of countries, regions and other political units.

**THE GROWING OF SUGAR CANE**—Roger P. Humbert—Elsevier Pub. Co. (N.Y.), 710 p., illus., \$29. Treats systematically the advances and application of modern techniques in the cultivation, nutrition, irrigation and drainage of sugar cane, in weed control, flowering, ripening, harvesting, transportation and pest control.

**HANDBOOK OF WATCH AND CLOCK REPAIRS**—H. G. Harris—Emerson Bks., 175 p., illus., \$3.95. Expert introduction to horology as a hobby, step-by-step discussion with many detailed illustrations.

**INSECTS IN RELATION TO PLANT DISEASE**—Walter Carter—Interscience, 705 p., illus., \$25. Deals with insects and their activities as transmitters of plant disease producing organisms, their toxic secretions, and their role in the transmission of plant viruses. An advanced text and reference work.

**INTRODUCTION TO GEOLOGY, Vol. I: Principles**—H. H. Read and Janet Watson—Macmillan (St. Martins), 693 p., illus., \$12.50. Comprehensive introduction to the science of geology, deals with geophysics, mineralogy, surface processes, rocks, fossils, vulcanicity and geochronology.

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**INTRODUCTION TO THE THEORY OF GAMES**—Ewald Burger, transl. from German by John E. Freund—Prentice-Hall, 202 p., \$8. Summarizes current mathematical concepts pertinent to situations in which end results are determined essentially by individuals and modified by chance.

**THE LIVING BRAIN**—W. Grey Walter—Norton, 311 p., illus., paper, \$1.75. Reprint (1953) of pioneer work recording the advances in our knowledge of the mechanics of the brain with the help of the electroencephalograph.

**McGraw-Hill Yearbook of Science and Technology, 1963**—David I. Eggenberger, Ed.—McGraw, 608 p., illus., \$19.50. Covers important scientific events of 1962 systematically, features articles on government support of science, 15 years of WHO, artificial speech, Eurovision, communications for National Defense, and artificial intelligence.

**THE MOLECULAR BASIS OF EVOLUTION**—Christian B. Anfinsen—Science Editions (Wiley), 228 p., illus., paper, \$1.95. Reprint (1959).

**THE NEW WILDERNESS: What We Know About Space**—Willard E. Wilks—McKay, 170 p., 16 plates, \$4.50. A non-technical guide to space exploration for the general reader.

**ON FORMALLY UNDECIDABLE PROPOSITIONS OF PRINCIPIA MATHEMATICA AND RELATED SYSTEMS**—Kurt Godel, transl. from German by B. Meltzer, introd. by R. B. Braithwaite—Basic Bks., 72 p., \$3. Godel's Theorem was first published in 1931.

**OUR FACE FROM FISH TO MAN: A Portrait Gallery of Our Ancestors and Kinfolk together with a Concise History of Our Best Features**—William K. Gregory, foreword by William Beebe—Hafner Pub. Co., 295 p., 119 illus., \$8. Reprint (1929), traces the evolution of the face back to Silurian times.

**THE PEACEFUL ATOM**—Bernice Kohn—Prentice-Hall, 72 p., illus. by Zenowij Onyszkewych, \$2.95. Tells boys and girls what the atom is and describes some of the early experiments.

**POLAROID LAND PHOTOGRAPHY MANUAL: A Technical Handbook**—Ansel Adams—Morgan & Morgan, 192 p., 88 photographs, 16 p. Polaroid color insert, \$5.95. For the professional photographer, discusses in detail advanced techniques, including Zone System for picture control adapted for Polaroid.

**PRINCIPLES OF CHEMISTRY: A Programmed Text**—Frank E. Harris—Addison-Wesley, 286 p., paper, \$4.80. A text for self-instruction developed under the auspices of Behavioral Research Laboratories, Palo Alto, Calif.

**THE REPTILES**—Archie Carr and Editors of LIFE—Time Inc., 192 p., photographs, illus., send \$3.95 direct to Time Inc. Book Div., 540 N. Michigan Ave., Chicago 11, Ill. Beautiful color photography with highly informative, readable text.

**RESOURCE CONSERVATION: Economics and Policies**—S. V. Ciriacy-Wantrup—Univ. of Calif. Div. of Agric. Sciences, rev. ed., 395 p., \$4. Revision takes into account significant changes in technology and social institutions, and discusses directions of research in the field since 1952.

**ROBERT GODDARD: Father of the Space Age**—Charles Spain Verral—Prentice-Hall, 80 p., illus. by Paul Frame, \$2.95. Juvenile biography.

**THE SEA: Ideas and Observation on Progress in the Study of the Seas, Vol. 2: The Composition of Sea-Water, Comparative and Descriptive Oceanography**—M. N. Hill, Ed.—Interscience, 554 p., illus., \$20. In this second of three volumes, international authorities treat the chemistry and fertility of the oceans, ocean currents, biological oceanography, and deep submersibles.

**SOUNDS YOU CANNOT HEAR**—Eric Windle—Prentice-Hall, 69 p., illus. by John Kaufmann, \$2.95. About animal sonar and ultrasonics, for young readers.

**SYMPOSIUM ON MARINE MICROBIOLOGY**—Carl H. Oppenheimer, Ed.—Thomas, C. C., 769 p., illus., \$22.50. Presents research results of leading investigators in the field. Symposium was sponsored by the Microbiology Branch of The Office of Naval Research.

**TEXTBOOK ON MECHANIZED INFORMATION RETRIEVAL**—Allen Kent—Interscience, 268 p., illus., \$9.50. Designed for classroom use and self-study.

**THROUGH ALCHEMY TO CHEMISTRY: A Progression of Ideas & Personalities**—John Read—Harper, 206 p., illus., paper, \$1.75. Originally published in 1957.

• Science News Letter, 83:380 June 15, 1963

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