

# Books of the Week

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**AEROSPACE BIBLIOGRAPHY**—National Aerospace Education Council—NASA (GPO), 3rd ed., 71 p., paper, 50¢. Includes books published between January 1963 through summer 1965, also lists pertinent references, periodicals, teaching aids, films and filmstrips, indicating reading levels from primary grades to adult.

**THE CHINESE PEOPLE'S REPUBLIC**—Dennis J. Doolin and Robert C. North—Hoover Institution, 68 p., paper, \$2. A survey of the Communist system in China, from pre-entry period through party-state system, Stalinism and thaw, to present stage.

**COMPLEX COMPOUNDS OF URANIUM**—I. I. Chernyav, Ed., transl. from Russian by L. Mandel, ed. by M. Govreen and IPST Staff—IPST (Davey, Daniel), 520 p., illus., \$21.50. Monograph deals with the specific properties of uranium as a complex-former, sequence of chapters corresponds to the sequence of the bond strengths of individual ligands in tetravalent and hexavalent uranium complexes.

**CONTEMPORARY MATH FOR PARENTS**—Frank Clark—Watts, F., 144 p., diagrams, \$3.95. Simple exploration of such subjects as number theory, modular arithmetic, rubber sheet geometry, logic and testing.

**CRETE**—Nicolas Platon, transl. from Greek—World Pub. Co., 223 p., 125 illus., 64 in color, \$10. Deals with the methods, problems and results of probing Minoan archaeology, with particular emphasis on the systematic excavations of the palace of Zakro discovered by the author.

**THE EDUCATION OF A PHYSICIST: An Account of the Third International Conference on the Education of Professional Physicists, London, 1965**—Sanborn C. Brown and Norman Clarke, Eds.—M.I.T. Press, 185 p., illus., \$7.50. Presents material in readable form including a fair account of differing views among participating physicists.

**ELEMENTARY THEORY OF ECONOMIC BEHAVIOR**—Josef Hadar—Addison-Wesley, 332 p., diagrams, \$8.50. Text for undergraduates, presents basic subject matter on intermediate microeconomics and introduces student to the principles of economic theorizing.

**THE EVOLUTION OF LIFE**—Everett C. Olson—New Am. Lib., 302 p., illus., paper, 75¢. This story of the development of life on earth shows how the idea of evolution has become synthesized incorporating the work of the biochemist, the geneticist, the physicist and the psychologist.

**EXPLORING SCIENCE NINE**—Walter A. Thurber and Robert E. Kilburn—Allyn & Bacon, 576 p., illus., \$5.76. Follows the inquiry approach of the earlier books in the series, without requiring elaborate laboratory equipment.

**THE FORESTS OF THE U.S.S.R.**—V. P. Tsepilayev, transl. from Russian by A. Gourevitch—IPST (Davey, Daniel), 521 p., photographs, 11 folded maps, \$19. Up-to-date information on Soviet forests, their geographical distribution, species composition, age, quality, regeneration and typological structure, and the economic utilization of forests.

**GENETICS IN MEDICINE**—James S. Thompson and Margaret W. Thompson—Saunders, W. B., 300 p., illus., \$7.50. Elementary discussion of genetic principles with focus upon medical aspects. Includes problems (with answers) which illustrate the kinds of genetical questions the physician may be called upon to answer.

**GROUP THEORY AND ITS PHYSICAL APPLICATIONS**—L. M. Falicov; notes compiled by A. Luehrmann—Univ. of Chicago Press, 224 p., diagrams, paper, \$2. Selection of topics in the theory of groups and its application to physical problems.

## ASTRONOMY

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**GUIDE TO THE UNDERWATER**—Bill Slosky and Art Walker—Sterling Pub. Co., 192 p., 150 color photographs by author, \$10. About the world of snorkelers, spearfishermen, coral and shell collectors, underwater treasure hunters and photographers.

**INTRODUCTION TO ALGEBRA**—Sam Perlis—Blaisdell Pub. Co., 440 p., \$9.50. An undergraduate text intended for a one-year introductory course in modern algebra.

**LECTURES ON GEOLOGY: Including Hydrography, Mineralogy, and Meteorology with an Introduction to Biology**—John Walker; biographical introd. by Harold W. Scott, Ed.—Univ. of Chicago Press, 280 p., illus., \$8.50. John Walker taught at the University of Edinburgh from 1779 to 1803 and was the first Scotsman to publish a classification of minerals and rocks.

**LET'S FIND OUT ABOUT MARS**—David C. Knight—Watts, F., 55 p., illus. by Don Miller, \$2.65. Dramatically illustrated book for small boys.

**MARINER IV TO MARS**—Willy Ley—New Am. Lib., 157 p., photographs, diagrams, paper, 60¢. The story behind the July 1965 space flight that sent to earth from 135 million miles away the first close-up photographs of the planet.

**MEDICARE: Benefits and Gaps**—Sidney Margolis—Public Affairs Committee, Pamphlet No. 389, 28 p., illus., paper, 25¢ direct to publisher, 381 Park Ave. South, New York 10016. Describes how Medicare works, how to supplement it and how to estimate Social Security benefits.

**1965 TECHNICAL HIGHLIGHTS OF THE NATIONAL BUREAU OF STANDARDS: Annual Report, Fiscal Year 1965**—A. V. Astin, Dir.—NBS (GPO), 204 p., illus., paper, 65¢. Briefly summarizes the year's most important activities, and discusses specifically the work in progress at each of the research institutes and the Central Radio Propagation Laboratory.

**OPPORTUNITIES FOR PARTICIPATION in the Artificial Kidney-Chronic Uremia Research and Development Program**—National Institute of Arthritis and Metabolic Diseases, 55 p., paper, single copies free upon request direct to G. J. Mannina, NAIMD, NIH, Bethesda, Md. 20014. Provides detailed description of objectives of the program, the scientific and technologic areas of emphasis and the methods utilized for supporting research.

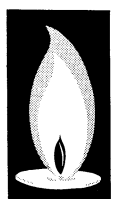
**OUR SPACE ENVIRONMENT**—Phillip D. Stern—Holt, 160 p., illus., \$2.95. Describes for the general reader the discoveries that led to man's present understanding of the vast spaces of the universe.

**OUR WILD ANIMALS**—John Bailey—Nelson, Thomas, 216 p., photographs by Leonard Lee Rue III, illus. by author, \$5.95. Superb photography combines with short informative text to offer a handsome review of our wild mammals, from tiny shrew to buffalo.

**PARALLEL PROFILES: Pioneers in Mental Health**—Thomas P. Graham—Franciscan Herald Press, 245 p., plates, \$4.95. A popularly written study of well-known lives that shaped the history of mental health.

**PLANTS THAT FEED THE WORLD**—Rose E. Frisch—Van Nostrand, 104 p., photographs, illus. by Denny McMains, \$3.50. Attractive book, acquaints young people with major crop plants around the world.

**THE PLANT SCIENCES: Now and in the Coming Decade**—Panel on the Plant Sciences for the Committee on Science and Public Policy of the National Academy of Sciences, Kenneth V. Thimann, Chmn.—NAS-NRC, 167 p., paper, \$5. Report on the status, trends and requirements of plant sciences in the United States.



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**POVERTY AMID AFFLUENCE**—Leo Fishman, Ed.—Yale Univ. Press, 246 p., paper, \$1.75. Eleven papers in which economists, sociologists and social psychiatrists discuss the many aspects of the poverty problem as it exists in the United States and seek possible approaches to its mitigation.

**PROCESS SIMULATION AND CONTROL IN IRON AND STEELMAKING**—J. M. Uys and H. L. Bishop, Eds.—Gordon & Breach, 340 p., diagrams, \$19.50; paper, \$9. These proceedings of the 1964 symposium include papers on the place and accomplishments of computer simulation in process control, on the dynamics of a simple metallurgical system, a mathematical model for reduction of hematite, and a thermochemical analysis of the hot-blast cupola.

**PSYCHOPATHOLOGICAL DISORDERS IN CHILDHOOD: Theoretical Considerations and a Proposed Classification**—Formulated by the Committee on Child Psychiatry—Group for the Advancement of Psychiatry, 184 p., paper, \$3.50. Classification consists of explicit, clearly defined categories of psychopathological disorder in childhood that can be employed by clinicians from varying conceptual backgrounds.

**READINGS FROM CHILDHOOD EDUCATION: Articles of Lasting Value**—Margaret Rasmussen, Ed.—Assn. for Childhood Educ., 414 p., paper, \$3.75. An anthology of 75 articles of wide appeal, centering around the child, the teacher, the classroom, inspirations from the past, and tomorrow's world.

**REFRACTORY METALS AND ALLOYS III: Applied Aspects**—Robert I. Jaffee, Ed.—Gordon & Breach, 996 p., illus., \$59.50; paper (2 vols.) Vol. 1, \$10.80; Vol. 2, \$9.50. Research papers dealing with extrusion, forging and forming problems, tubing technology, brazing-alloy development, welding technology, shear spinning and metal removal, corrosion by liquid metals, coatings, and behavior under stress.

**THE ROSEATE SPOONBILL**—Robert Porter Allen—Dover, 142 p., illus., paper, \$2. Reprint of Audubon Society research report published in 1942 presenting data on the spectacular bird now almost extinct in the U.S.

**THE SNARK WAS A BOOJUM: A Life of Lewis Carroll**—James Playsted Wood—Pantheon Bks., 184 p., illus. by David Levine, \$3.95. Biography of the mathematician and Oxford don who invented Alice in Wonderland.

**THERMAL STRESS AND LOW-CYCLE FATIGUE**—S. S. Manson—McGraw, 404 p., illus., \$16.50. Combines the fundamental and applied aspects of the two subjects so they are directly applicable in construction, research and design.

**TEXTILE HANDBOOK**—Mary Hawkins, Ed., Anita DeVivo, rev. Ed.—Am. Home Economics Assn., rev. 3rd ed., 110 p., illus., paper, \$2. Revision includes increased information on man-made fibers, a group now accounting for about 38% of U.S. consumption.

**A USER'S MANUAL FOR THE AUTOMATIC SYNTHESIS PROGRAM (Program C)**—R. E. Kalman and T. S. Englar—NASA CR-475 (CFSTI), 526 p., diagrams, paper, \$5.50. A digital-computer program written in FAP and compatible with most IBM 1090-7094 installations. It enables the user to sequence arbitrarily some 30 subroutines.

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