

Books of the Week

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ABC'S OF ANTENNAS—Allan Lytel—Sams, H. W., 96 p., illus., paper, \$2.25. Gives an understanding of basic antenna principles, of radio-wave behavior, basic antenna types and special uses.

ABC'S OF BOOLEAN ALGEBRA—Allan Lytel—Sams, H. W., 2nd ed., 112 p., diagrams, paper, \$2.25. An introduction to symbolic logic and electronic circuits used for logical functions.

ABC'S OF COMPUTERS—Allan Lytel—Sams, H. W., 2nd ed., 144 p., illus., paper, \$2.50. Compact introduction to modern digital computers and their use, may serve as a self-teaching text.

ADVANCES IN ASTRONOMY AND ASTROPHYSICS, Vol. 4—Zdenek Kopal, Ed.—Academic Press, 346 p., illus., \$14. Topics dealt with include objective prisms and radial velocities, figure and gravity field of the moon, relativistic degenerate gas, and the cometary origin of meteorites.

ADVANCES IN X-RAY ANALYSIS, Vol. 9: Proceedings of the Fourteenth Annual Conference on Applications of X-Ray Analysis, 1965—Gavin R. Mallett, Marie Fay and William M Mueller, Eds.—Plenum Press, 544 p., illus., \$22.50. Subjects presented include electron-probe microanalysis, the effect of chemical combination on X-ray spectra, and the uses of soft and ultrasoft X-rays in emission analysis.

ALL ABOUT CATS—Carl Burger, foreword by William Bridges—Random House, 143 p., photographs, \$1.95. A story book on cats, both wild and domestic, tells about their history, evolution and the various breeds.

ANIMAL CAMOUFLAGE—Dorothy Shuttlesworth—Natural History Press, 63 p., illus. by Matthew Kalmenoff, \$3.50. Tells young readers about all kinds of ways in which mammals, snakes, birds, insects and fish use camouflage to protect themselves.

BIOLOGICAL CHEMISTRY—Henry R. Mahler and Eugene H. Cordes—Harper, 872 p., illus., \$16.50. Deals with structures and functions of the two classes of biopolymers, nucleic acids and proteins, and treats coenzymes, metabolism, photosynthesis and biosynthesis of lipids and of proteins.

A BOOK OF REAL SCIENCE—Mae Freeman—Four Winds Press, 48 p., illus. by John Moodie, \$1.95. Basic concepts of physical science for the youngest readers.

CATV SYSTEM MANAGEMENT & OPERATION—Robert B. Cooper, Jr.—TAB Bks., 256 p., paper, \$12.95. A handbook on construction techniques, copyright and franchise information, equipment and financing of cable television.

CRYSTALLIZATION PROCESSES—N. N. Sirota, F. K. Gorski and V. M. Varikash, Eds., transl. from Russian—Consultants, 169 p., illus., paper, \$22.50. Articles deal with the experimental and theoretical study of the mechanism and kinetics of crystallization and the effects of external actions on the process of crystallization.

THE EARTH: Planet Number Three—Franklyn M. Branley—Crowell, 151 p., illus. by Helmut K. Wimmer, \$4.50. A clear description of the earth, its atmosphere, motions, shape and magnetism, with helpful diagrams for the general reader.

EDUCATIONAL GAMES AND ACTIVITIES: A Sourcebook for Parents and Teachers—Guy Wagner and others—Teachers Publishing Corp., 156 p., illus. by H. Robert Loomis, spiralbound, \$3.50. Entertaining and wit-sharpening games for the home, the child in bed, at table, helping with chores, in the car and at parties.

ELECTRIC MOTOR TEST & REPAIR—Jack Beater—TAB Bks., 160 p., illus., paper, \$6.95. A guide to maintenance practices for small horsepower motors.

FABRIC ALMANAC—Marvin Klapper—Fairchild Pubns., 140 p., illus., \$4.95. Up-to-date glossary of terms, from Aceo to Zibeline, with production charts and statistics.

FOXES LIVE HERE—Irmengarde Eberle—Doubleday, 64 p., photographs, \$3.25. Beautifully illustrated nature story of a year in the life of a fox family.

INSTRUMENTATION IN THE CHEMICAL AND PETROLEUM INDUSTRIES, Vol. 2—Carl W. Sanders, Ed.—Plenum Press, 207 p., diagrams, \$10.50. Topics dealt with include explosion-proof enclosures, international standards for hazardous locations, process control and instrument maintenance.

INTELLIGENCE IN THE UNIVERSE—Roger A. MacGowan and Frederick I. Ordway, III—Prentice-Hall, 402 p., illus., \$13.50. A comprehensive analysis of the subject of intelligence existing beyond the confines of the solar system. Using scientific facts, hypotheses and logical speculation, the authors discuss the development of life, evolution, biological thinking and neural networks, empirical evidence of and proposals for communication with extrasolar intelligence.

INTERPRETED INFRARED SPECTRA, Vol. 2—Herman A. Szymanski—Plenum Press, 304 p., illus., \$12.50. Presents vibrational analyses of representative compounds within a given class, group frequencies for that class, and individual spectra, with emphasis in this volume on alcohol and diol spectra.

MEDICINE IN ACTION: Today & Tomorrow—Margaret O. Hyde, foreword by Charles Philamore Bailey, M.D.—Whittlesey House, 2nd ed., 160 p., illus. by Clifford N. Geary, \$3.50. Portrays for young people the ways of modern medicine, the team work, advanced methods and devices, public health and drug research.

MEN, MACHINES AND HISTORY: The Story of Tools and Machines in Relation to Social Progress—S. Lilley—International Pubs., rev. ed., 352 p., 48 plates, illus., \$7.50. A far from impartial historical review of man's technological accomplishments culminating in comparisons between U.S. and U.S.S.R. efforts, with the author's sympathies decidedly pro-Soviet.

THE MERCK MANUAL OF DIAGNOSIS AND THERAPY—Charles E. Lyght, Ed.—Merck & Co., 11th ed., 1850 p., illus., \$7.50; de luxe \$9.75. Up-to-date information in compact form, covering in 21 sections diseases grouped according to their anatomic predilection, etiologic relationship or specialized therapy; includes nursing and laboratory procedures, generously cross-referenced index.

NEEDED RESEARCH IN MATHEMATICAL EDUCATION—Howard A. Fehr, Ed.—Teachers College Press, 25 p., paper, \$1. Summary report of 1965 conference discussing needed research for evaluating innovations made in the curricula of mathematics teaching.

PLASMA PHYSICS AND CONTROLLED NUCLEAR FUSION RESEARCH, Vols. I and II—Lyman Spitzer, Jr. and others—IAEA (National Agency for International Pubs. N.Y.), 778 p., 1000 p., illus., \$15, \$21. Proceedings of 1965 conference held by the International Atomic Energy Agency in Culham, England, reporting on experimental results, problems of production, control and containment of high density and high temperature plasmas.

POISONS IN THE AIR—Edward Edelson and Fred Warshofsky—Pocket Bks., 160 p., paper, \$1. An emphatic report on air pollution and its dangers, presenting the problem in a manner that should arouse public opinion.

PRE-MARITAL COUNSELING—Aaron L. Rutledge—Schenkman Pub. Co., 336 p., \$8.95; paper, \$4.50. A textbook dealing with the goals, process and dynamics of premarital counseling, discussing the specific subjects prerequisite to successful counseling.

THE PSYCHOLOGY OF SET—Dmitrii Nikolaevich Uznadze, transl. from Russian by Basil Haigh—Consultants, 215 p., \$15. Describes experimental observations dealing with the concept

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of set, the phenomenon in which prior events or activity condition a subject to perceive or react to stimuli in a particular manner.

SCIENCE AND THE MODERN WORLD—Jacinto Steinhardt, Ed.—Plenum Press, 225 p., illus., \$7.50. A series of lectures ranging in subject from new developments in our knowledge of the universe by G. C. McVitties, to biological evolution and human equality by Theodosius Dobzhansky.

SECRETS OF THE SEA—Lloyd Mallan—Arco, 112 p., photographs, \$3.50. Picture-essays on a wide range of topics such as ocean animals, desalting sea water, diamonds from the sea, the tragedy of the Thresher, our nuclear Navy, and weather forecasting from the sea.

SEVEN STATES OF MATTER: A Westinghouse Search Book—Milton Gottlieb, Max Garbuny and Werner Emmerich; foreword by Leonard Carmichael—Walker & Co., 247 p., illus., \$5.95. For the intelligent layman, research scientists explain how physicists and astrophysicists are now viewing matter in such various states as when in flux, in plasmas, as particles and superfluids.

STALKING THE HEALTHFUL HERBS—Euell Gibbons—McKay, 303 p., drawings by Raymond W. Rose, \$5.95. Acquaints the reader with the values and uses of many culinary and medicinal herbs native to North America. The narrative includes recipes, tables and glossary.

THE STRUCTURE OF POLYMERS—M. L. Miller—Reinhold, 704 p., illus., \$27. The emphasis of the book is on the polymer molecule, it treats such variants as molecular weight, branching bulkiness, stiffness polarity, stereoregularity, copolymer composition and the distribution and character of comonomer units.

THE TELESCOPE AND THE WORLD OF ASTRONOMY—Marvin F. Riemer—Scope Instrument Corp., 2nd enlarged ed., 229 p., illus., \$3.95. Written for the amateur astronomer, the book describes sky-watching techniques and gives information about telescopes and accessory equipment.

ULTRAVIOLET SPECTRA OF ELASTOMERS AND RUBBER CHEMICALS—V. S. Fikhtengol'ts, R. V. Zolotareva and Yu. A. L'vov, transl. from Russian by A. Eric Stubbs—Plenum Press, 170 p., graphs, \$9. Gives absorption spectra in the near ultraviolet for 141 different substances met in synthetic rubber manufacture—monomers, polymers, antioxidants and other substances.

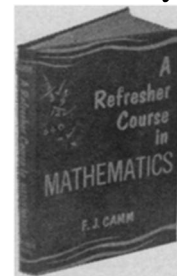
WARPLANES OF YESTERYEAR—Kenneth Munson—Arco Pub. Co., 122 p., 270 photographs, \$5.95. Pictorial album showing the development of military aircraft from 1914 to the end of World War II.

THE WORLD OF THE BLACK BEAR—Joe Van Wormer—Lippincott, 163 p., photographs by author, \$4.95. This generously illustrated study of a species follows the bear through a full year of living habits and activities.

YOUR CHILD FROM 6 to 12—Catherine S. Chilman—Children's Bureau (GPO), 98 p., illus., paper, 25¢. Brings together in easily readable form the chief results of research and observations of specialists in the study of children and their families.

A REFRESHER COURSE IN MATHEMATICS

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