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.

ADVENTURES IN SCIENCE—John M. Scott, S.J.—Loyola Univ. Press, 677 p., illus., \$5. A book about the applications of science, for the Catholic

THE AMERICAN ECONOMIC REPUBLIC Adolph A. Berle—Harcourt, 247 p., \$4.50. Economist's critical examination of the American economic system and how its prosperity and power are achieved under democratic political rule.

BASIC CHEMISTRY PROBLEMS FOR HIGH SCHOOL—John W. Sulcoski and Stephen Rituper—Burgess, 216 p., illus., paper, \$2.75. Deals specifically with chemistry problems and methods of solving them, stressing the proper use of units or dimensions throughout.

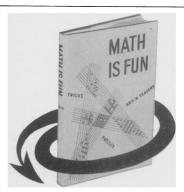
THE BIG DISH: The Fascinating Story of Radio Telescopes—Roger Piper—Harcourt, 159 p., photographs, diagrams by Felix Cooper, \$3.25. Concise and readable account of how radio telescopes work, why they are built and what they may accomplish.

CALIFORNIA MOUNTAIN WILDFLOWERS—Philip A. Munz—Univ. of Calif. Press, 122 p., 96 color photographs, illus, maps, paper, \$2.95. Presents to the general reader 276 wildflowers in such a way that they can be identified without taxonomic knowledge.

THE CHEMISTRY OF THE LANTHANIDES—Therald Moeller—Reinhold, 117 p., paper, \$1.95. Presented in a logical blend of traditional observation with the modern, followed by a projection to the heavy elements.

CURVES IN SPACE—Donovan A. Johnson—Webster, 64 p., illus., paper, 85 f. Describes curves and properties of circle, ellipse, parabola and hyperbola, with exercises to help student explore on his

DEEP-SEA MOORINGS: Design and Use with Unmanned Instrument Stations—John D. Isaacs and others—Univ. of Calif. Press, 41 p., diagrams, paper, \$2. Describes principles and methods devised for mooring surface-instrument floats at fixed positions in the deep sea.



A Math Revel-

Now at last—the Math Puzzler's Paradise. If you have an urge to juggle numbers, here is a goldmine of mathematical high, jinks and hocus-pocus. Tricks, brain-teasers, "magic," paradoxes, problems and puzzles, riddles, conundrums, and enigmas—galore. Frustration guaranteed.

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DINOSAURS — Nicholas Hotton III — Pyramid, 192 p., photographs, diagrams, paper, 75ϕ . Paleontologist recreates for the general reader the more than 100 million years during which the dinosaurs roamed the earth.

roamed the earth.

ELECTROCHEMISTRY: Theoretical Principles and Practical Applications — Giulio Milazzo with others, transl. from Italian by P. J. Mill—Elsevier (N.Y.), 708 p., diagrams, \$20. Teaching text, gives an account of fundamental concepts of electrochemistry and the industrial applications developed from experiments in the laboratory.

ENVIRONMENTAL RADIOACTIVITY — Merril Eisenbud—McGraw, 430 p., illus, \$12.50. In language understandable to the physicist, chemist or engineer, this text consolidates the mass of information developed in the past 20 years on the behavior of radioactive substances in the environment.

FUNDAMENTAL NUCLEAR ENERGY RESEARCH 1962: A Special Report—U. S. Atomic Energy Commission, Div. of Plans and Reports—GPO, 405 p., illus., paper, \$2.50. Representative sampling of current AEC-sponsored fundamental research programs and the field of exploratory develop-

ment.

GENERAL PSYCHOPATHOLOGY—Karl Jaspers, transl. from German by J. Hoenig and Marian W. Hamilton—Univ. of Chicago Press, 922 p., \$12.50. Translation of 7th (1959) edition of comprehensive study and fundamental textbook combining the disciplines of psychiatry, medicine and philosophy in the science of psychopathological investigation.

science of psychopathological investigation.

GENETIC NOTES—James F. Crow—Burgess, 5th ed., 157 p., illus, \$3.75. Supplementary text in the form of lecture notes, new edition contains more material on DNA, RNA and the coding problem.

GERMANY'S OTHER HALF: A Journalist's Appraisal of East Germany—Franz von Nesselrode—Abelard-Schuman, 207 p., maps, \$5. Gives a roving reporter's picture of East Germany which in the author's opinion is stronger than the West realizes.

HANDBOOK OF ANALYTICAL CHEMISTRY—
Louis Meites, Ed.—McGraw, 1,722 p., diagrams, \$47.50. Comprehensive reference volume, combines the work of 130 authorities in the specific areas about which they write, embraces all the fundamental data and practical procedures most useful in analytical chemistry.

MARVELS OF THE SEA AND SHORE—(Arnold—Abelard-Schuman, 158, p., illus. by Yunge-Bateman, \$3.75. For young people.

MICROWAVE SYSTEMS: Fundamentals—F. Jonathan Mivec—Sams, 288 p., diagrams, paper, \$5.95. Study course on microwave systems, both radar and communication, covers transmitters, receivers, transmission line systems and antennas.

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MODERN CHEMICAL DISCOVERIES—Richard Clements—Dutton, rev. ed., 278 p., 60 photographs, \$5.95. About recent industrial developments in the application of chemical know-how.

THE MOSSBAUER EFFECT: A Review with a Collection of Reprints—Hans Frauenfelder—Benjamin, 336 p., diagrams, \$6.95; paper, \$4.95. On the effect, discovered only five years ago, of nuclei mbedded in solids that can emit and absorb lowenergy gamma rays which display the natural line width and possess the full transition energy without recoil

MUCOUS SECRETIONS—Sophie Jakowska, Ed.
—N.Y. Acad. of Sciences, Annals, Vol. 106, Art.
2, 652 p., illus., paper, \$5. Series of papers from joint conference of zoologists, chemists and clinicians.

NUCLEAR PHYSICS AND THE FUNDA-MENTAL PARTICLES—Harry H. Heckman and Paul W. Starring—Holt, 410 p., illus., paper, \$2.60. Written on the advanced high school level, book stresses the basic science of the nucleus with special attention to definitions and clarification of

PHYSIOLOGY OF MAN IN SPACE—J. H. U. Brown, Ed.—Academic Press, 348 p., illus, \$13. Treats the neuromuscular aspects, acceleration, stress, tolerances and psychological aspects of manned space

POPULAR SCIENTIFIC LECTURES—Hermann von Helmholtz, selected and introd. by Rorri Kline—Dover, 286 p., illus., paper, \$1.45. Unabridged lectures on such topics as optics and painting, and physiology of harmony, first published in 1881.

PREHISTORIC ROCK ART OF NEVADA AND EASTERN CALIFORNIA—Robert F. Heizer and Martin A. Baumhoff—Univ. of Calif. Press, 412 p., illus., paper, \$8. Presents some of the petroglyphic art of prehistoric Indians of the arid interior plateau of western North America. of western North America

THE PREPARATION OF TERM PAPERS AND REPORTS—Marjorie H. Thurston—Burgess, 4th ed., 54 p., paper, \$1.50. To aid graduate students, contains expanded chapter on scientific and technical

SERVICING TRANSISTOR RADIOS, Vols. 22, 23—Howard W. Sams Engineering Staff—Sams, 152 p. each, illus., paper, \$2.95 each; set of three vols., \$7.95. Three new volumes with analysis and service data for 115 current model transistor radios.

SPACE CHEMISTRY—Paul W. Merrill—Univ. of Mich. Press, 166 p., illus., \$5; paper, \$1.95. Presents the chemical make-up of the universe, from atoms and molecules to stars and nebulae.

THE SPIRIT OF AMERICAN PHILOSOPHY— John E. Smith—Oxford Univ. Press, 219 p., \$5. Discusses the philosophical thinking of Peirce, James, Royce, Dewey and Whitehead.

STARS AND OUTER SPACE MADE EASY—Carlos S. Mundt—Naturegraph, 80 p., illus., paper, \$1.95. Simplified introduction to astronomy for the

TASMANIAN WILD LIFE: A Popular Account of the Furred Land Mammals, Snakes and Introduced Mammals of Tasmania—Michael Sharland—Melbourne Univ. Press (Cambridge Univ. Press), 86 p., photographs, \$4.75. About kangaroo, wallaby, wombat and bandicoot.

THE TECHNIQUE OF POTTERY—Dora M. Billington—Hearthside Press, 222 p., illus., \$6.95. About the chemistry of pottery materials, throwing, turning, moulding, glazes and firing methods.

TUNNEL-DIODE AND SEMICONDUCTOR CIR-CUIT—John M. Carroll—McGraw, 405 p., illus., \$9.75. Deals in detail with tunnel-diode theory, test equipment, circuits, amplifiers, oscillators and memory, parametric amplifiers and silicon controlled rectifier.

WEBSTER'S NEW WORLD DICTIONARY of the American Language: College Edition—David B. Guralnik and Joseph H. Friend, Eds.—World Pub. Co., 1,724 p., 1,200 illus., \$5.75. thumb-indexed \$6.75. Definitions of more than 140,000 words, including places and people, foreign expressions and abbreviations.

THE WOLFENDEN REPORT: Report of the Committee on Homosexual Offenses and Prostitution—Introd. by Karl Menninger—Stein & Day (Lippincott), 243 p., \$5.95. Official document prepared for the British Parliament, written in non-technical language, of importance to professionals in the fields of sociology, psychiatry and the law.

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