

Books of the Week

Listing is for readers' information, not advertising. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25¢ handling charge if price is less than \$2 to Book Department, Science Service, 1719 N St., N.W., Washington, D. C. 20036.

AMERICAN EDUCATION IN A REVOLUTIONARY WORLD: The Role of the States—N.Y. State Education Dept. and U.S. National Commission for UNESCO—N.Y. State Educ. Dept., 32 p., paper, single copies free upon request direct to publisher, Office of Foreign Area Studies, Albany, N.Y. 12224. Report of 1964 Conference on the Study of Other Peoples and Culture in the Schools and Teacher Education.

APPROACH TO ARCHAEOLOGY—Stuart Pigott—McGraw, 134 p., photographs, illus., paper, \$1.95. Reprint (1959), deals with the nature of the evidence available, the techniques employed, and the problems which confront the student of archaeology.

ART & GEOMETRY: A Study in Space Intuitions—William M. Ivins, Jr.—Dover, 113 p., diagrams, paper, \$1. Unabridged reprint of controversial study published in 1946.

ASTRONOMY—Samuel Rapport and Helen Wright, Eds., foreword by Serge A. Korff—N.Y. Univ. Press, 354 p., plates, diagrams, \$4.95. A brief introduction for the layman, with articles on the founders of astronomy, the tools astronomers work with, the solar system, stars and galaxies.

BASIC ELECTRONICS—Prepared by Bureau of Naval Personnel—Dover, 459 p., diagrams, paper, \$2.75. Unabridged republication of revised (1962) edition of Navy Training Course.

BASIC THEORY AND APPLICATION OF TRANSISTORS—U.S. Dept. of the Army—Dover, 263 p., illus., paper, \$1.25. Unabridged corrected

replication of Technical Manual first published by Headquarters in 1959.

BLACK MAGIC, WHITE MAGIC—Gary Jennings—Dial Press, 177 p., illus. by Barbara Begg, \$3.75. A look at the history of that pretended art of producing marvelous effects by the aid of supernatural forces, for young people.

BOOLEAN ALGEBRAS—Roman Sikorski—Academic Press, 2nd ed., 237 p., \$9.50. This work treats the set-theoretical aspect of Boolean algebra, with little mention being made of the algebraic one.

CLOUD STRUCTURE AND DISTRIBUTIONS OVER THE TROPICAL PACIFIC OCEAN—Joanne S. Malkus and Herbert Riehl—Univ. of Calif. Press, 229 p., illus., \$7.50. Using quantitative photography and synoptic analysis, the investigators analyze the two-way interaction between the structure of the low-latitude atmosphere and its dynamics and thermodynamics.

COMMUNICATIONS OF THE LUNAR AND PLANETARY LABORATORY, Vol. 2, Nos. 31-35—Gerard P. Kuiper and others—Univ. of Ariz. Press, 97 p., paper, illus., \$4.50. Contains papers on infrared spectra of stars and planets, and on the Martian atmosphere.

THE CONCEPT OF ENERGY SIMPLY EXPLAINED (formerly titled: The Story of Energy)—Morton Mott-Smith—Dover, 215 p., illus. by Emil Kosa, Jr., paper, \$1.25. Revised version of book first published in 1934.

CORTES AND THE AZTEC CONQUEST—Irwin R. Blacker; Gordon Eckholm, Consultant; Eds. of Horizon Magazine—Am. Heritage Pub. Co. (Harper), 153 p., illus., \$3.95. Colorful short historical review of the victory of the Spaniards over the Indians.

DICTIONARY OF CIVIL ENGINEERING—Rolt Hammond—Philosophical Lib., 253 p., illus., \$10. Defines the terms used in civil engineering practice, from A.A.S.H.O. to Zone of Saturation.

A DIRECTORY OF INFORMATION RESOURCES IN THE UNITED STATES: Physical Sciences, Biological Sciences, Engineering—Nat. Referral Center for Science and Technology—GPO, 352 p., paper, \$2.25. Describes subject specialization, information services and publications of some 1,100 organizations, arranged alphabetically, with subject index.

EARTH, SEA AND AIR: A Survey of Geophysical Sciences—Jerome Spar—Addison-Wesley, 2nd ed., 156 p., illus., paper, \$1.95. One-semester course designed for students in liberal arts college, as part of a broad survey of science.

ETERNAL EGYPT—Pierre Montet, transl. from French by Doreen Weightman—NAL-World, 338 p., 110 plates, drawings, \$6.95. French Egyptologist's history of Egyptian life, from its dim beginnings in 3000 B.C. to the conquest by Alexander in 333 B.C.

EXCHANGE AND POWER IN SOCIAL LIFE—Peter M. Blau—Wiley, 352 p., \$7.75. An analysis of the processes that govern the associations among men as a preliminary to expounding a theory of social structure.

FACULTY AND OTHER PROFESSIONAL STAFF IN INSTITUTIONS OF HIGHER EDUCATION: First Term 1961-62, Final Report—Ralph E. Dunham and Patricia S. Wright—OE (GPO), 98 p., paper, 60¢. Detailed analysis of national and state data, including data for individual institutions.

FINANCIAL STATISTICS OF INSTITUTIONS OF HIGHER EDUCATION, 1959-60: Receipts, Expenditures and Property—Felix H. I. Lindsay—OE (GPO), 191 p., paper, \$1.25. Biennial report.

FISSION PRODUCT YIELDS AND THEIR MASS DISTRIBUTION—Yu. A. Zysin, A. A. Lbov and L. I. Sel'chenkov; transl. from Russian—Consultants, 121 p., \$15. Reference manual on results of experimental research work over the period spanning 1939 to 1962.

GENETICS AND THE SOCIAL BEHAVIOR OF THE DOG—John Paul Scott and John L. Fuller—Univ. of Chicago Press, 468 p., plates, illus., \$12.50. Authoritative information on the behavior of the dog, based on nearly twenty years of research at The Jackson Laboratory, involving intensive measurements on the behavior of hundreds of purebred and hybrid dogs, studied from birth to one year.

GROUP THEORETICAL CONCEPTS AND METHODS IN ELEMENTARY PARTICLE PHYSICS—Feza Gursey, Ed.—Gordon & Breach, 425 p., \$19.50; prof. ed. \$12.50. Lectures of the 1962 Istanbul Summer School of Theoretical Physics.

HANDBOOK OF X-RAY ANALYSIS OF POLYCRYSTALLINE MATERIALS—Lev Iosifovich Mirkin, transl. from Russian by J.E.S. Bradley—Consultants, 731 p., diagrams, \$35. Presents calculated and experimentally determined constants and data essential to the production and interpretation of X-ray patterns of polycrystalline materials in tabular, graphic and nomographic form.

HEREDITY AND EVOLUTION IN HUMAN POPULATIONS—L. C. Dunn—Anthemum, rev. ed.,

155 p., diagrams, paper, \$1.95. Originally published by Harvard University Press in 1959.

INTERNAL FACTORS IN EVOLUTION—Lancelot Law Whyte—Braziller, 128 p., \$4. The author develops the idea that in addition to Darwinian competitive, external selection another process, an internal selection process acts directly on mutations at the molecular, chromosomal and cellular levels, in terms not of struggle and competition, but of the system's capacity for coordinated activity.

KEPLER'S DREAM—John Lear, with full text and notes of SOMNIUM, SIVE ASTRONOMIA I. UNARIS, Joannis Kepleri, transl. by Patricia Frueh Kirkwood—Univ. of Calif. Press, 182 p., \$5. Presents the author's interpretation of Kepler's manuscript on "lunar geography", in which the 17th century mathematician uses the principles of sun-centered astronomy as guides in a theoretical voyage to the moon.

MATHEMATICS AND SCIENCE: Last Essays (Dernieres Pensees)—Henri Poincaré, transl. from French by John W. Bolduc—Dover, 117 p., paper, \$1.25. New translation of 1913 French edition.

MEET THE REPTILES—C. H. Keeling—Watts, F., 158 p., illus. by John Faulls, \$3.95. About snakes, lizards, tortoises, the tuatara, crocodiles, and reptiles as pets, for boys and girls.

1964 TECHNICAL HIGHLIGHTS OF THE NATIONAL BUREAU OF STANDARDS: Annual Report, Fiscal Year 1964—National Bureau of Standards, A. V. Astin, Dir.—GPO, 281 p., photographs, paper, \$1. Reports on progress in research programs designed to utilize science and technology in advancing economic growth.

A PHILOSOPHY OF SCIENCE—W. H. Werkmeister—Univ. of Neb. Press, 551 p., illus., paper, \$1.85. Reprint of book first published in 1940.

THE PHYSIOLOGISTS—Friedrich Durrenmat, transl. from German by James Kirkup—Grove Press, 94 p., paper, \$1.75. A play with some scientific philosophical meaning in it.

PHYSICS—Samuel Rapport and Helen Wright, Eds.; foreword by Serge A. Korff—N.Y. Univ. Press, 333 p., diagrams, \$4.95. A survey of the important developments in modern physics, in the words of the scientists actually involved in the work.

PROJECTIONS OF EDUCATIONAL STATISTICS TO 1973-74—Kenneth A. Simon and Marie G. Fullham—OE (GPO), 42 p., paper, 30¢. Supplies projections of the main areas of statistics for elementary and secondary schools and institutions of higher learning, including enrollments, graduates, teachers and expenditures.

PSYCHOLOGICAL TESTS AND PERSONNEL DECISIONS—Lee J. Cronbach and Goldine C. Gleser—Univ. of Ill. Press, 2nd ed., 347 p., diagrams, \$7.95. Substantially expanded by supplement to 1955-63 relevant literature, and pertinent research papers.

RECENT RESEARCH ON SCHIZOPHRENIA—Philip Solomon and Bernard C. Glueck, Jr., Eds.—Psychiatric Research Reports, Am. Psychiatric Assn., 205 p., illus., paper, \$4. Papers and discussions include research on the effect of total social deprivation, and factors altering brain function.

SCIENCE HORIZONS: The World of Life—Franklyn M. Branley, Milton O. Pella and John Urban—Ginn, 536 p., illus., \$4.56. A textbook for seventh grade students.

THE SCIENTIST—Henry Margenau, David Bergamini and the Editors of LIFE—Time-Life Bks., 15 p., illus., paper, single copies free upon request direct to publisher, Rockefeller Center, New York 10020. Reprint from the latest volume in the LIFE Science Library.

SHORE AND SEA BOUNDARIES with Special Reference to the Interpretation and Use of Coast and Geodetic Survey Data, Vol. 2—Aaron L. Shalowitz—Coast & Geodetic Survey (GPO), 749 p., illus., \$5.25. A treatise on the technical and legal aspects, interpretation and use of the surveys and charts of the Coast and Geodetic Survey.

SIMPLE MACHINES and How We Use Them—Tillie S. Pine and Joseph Levine—Whittlesey House, 48 p., illus. by Bernice Myers, \$2.50. Makes young children aware of simple mechanical devices around the house and tells them why they work.

SOILS: An Introduction to Soils and Plant Growth—Roy L. Donahue—Prentice-Hall, 2nd rev. ed., 363 p., illus., \$10.60. Presents a practical approach to universal principles of soil science that are adaptable for application everywhere.

STRATIGRAPHY AND LIFE HISTORY—Marshall Kay and Edwin H. Colbert, with chapter on "The Origin of the Earth" by Dean B. McLaughlin—Wiley, 736 p., photographs, illus., maps., \$9.75. Deals with the principles of placing geologic and evolutionary events in their sequence of time on earth, and with some aspects of the development of life.

THERMONUCLEAR POWER—T. S. Green—Philosophical Lib., 168 p., illus., \$10. On the fundamentals of fusion and the various approaches leading to the controlled release of thermonuclear power.

WHY PEOPLE ACT THAT WAY—Lucy Freeman—Crowell, 246 p., illus., \$5.95. Easily understandable guide to Freudian psychology, emphasizing the fact that healthy behavior is the result of the harmonious functioning of thoughts, feelings and action.

• Science News Letter, 87:124 February 20, 1965

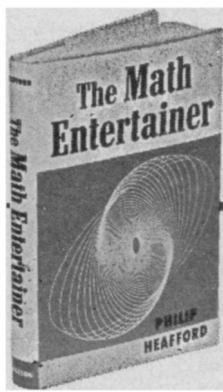
FREE CATALOGUES OF SCIENCE BOOKS

State your interest! Mathematics, physics, history of science, general science, biology, social sciences, earth sciences, chemistry, languages, philosophy, engineering. Dover publishes over 100 books per year; quality production standards, priced for your budget. Dept. SNL, DOVER, 180 Varick St., N. Y. 14, N. Y.

Math Buffs

Here's the Book for YOU . . .

*Puzzles, Stumpers, Teasers,
Twisters, Mathematical Games*



\$2.95

THE MATH ENTERTAINER will amuse and entertain you and your friends for years. Includes sections on Math History, Symbols, Measures, Money, Series, Roots and Powers, Permutations, Math Instruments, Fractions, Shapes, "Limerick" Problems, True and False, Logarithms, Calculus "Cocktails," Cross Words, Codes and Puzzles.

Answers and complete explanations are given for all problems. Illustrated **ORDER NOW!**

THE MATH ENTERTAINER

By Philip Heafford

\$2.95 Postfree. 10-Day Money-Back Guarantee.

EMERSON BOOKS, Inc., Dept. 345-P
251 West 19 Street, New York 11