

Books of the Week

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ANIMALS AS PARENTS—Millicent E. Selsam—Morrow, 92 p., illus. by John Kaufmann, \$2.95. Answers many questions about the ways of animal parents from observations in their natural surroundings and from experiments where they live or in the laboratory.

THE BEGINNING KNOWLEDGE BOOK OF BACKYARD FLOWERS—Polly Hathaway—Rutledge Bks (Macmillan), unpag., illus. by Raul Mina Mora, \$1.95. Tells boys and girl about the beautiful world of flowers, including a garden plan for flowers so that some flowers will be in bloom from the early spring to late autumn.

CHEMISTRY AND METABOLISM OF L- AND D-LACTIC ACIDS—Harold E. Whipple, Ed.—New York Acad. of Sciences, Annals, Vol. 119, Art. 3, 314 p., illus., paper, \$6. Devoted solely to the chemistry and metabolism of lactic isomers, the conference report demonstrates the need to employ specific isomers rather than the undefined commercial mixtures now in general use.

THE COMING AGE OF INFORMATION TECHNOLOGY: Studies in Coordinate Indexing Vol. VI—Vladimir Slamecka Ed.—Documentation Inc., 166 p., graphs, \$5. Papers emphasizing the design of information systems, their component elements and techniques, the concepts underlying theoretical principles of technology and the nature, purpose and educational content of the profession.

CONSUMERS ALL: The Yearbook of Agriculture 1965—Foreword by Orville L. Freeman, Sec'y of Agriculture—U.S.D.A. (GPO), 496 p., illus., maps,

\$2.75. Shows how the Dept. of Agriculture's services are woven into the fabric of American life and gives how-to-do-it facts for everyday living.

THE CONTROL OF HUMAN HEREDITY AND EVOLUTION—T. M. Sonneborn, Ed.—Macmillan, 127 p., illus., paper, \$1.95. Deals with the problem of man's control of his own heredity and evolution.

ELEMENTS OF THE THEORY OF NON-LINEAR OSCILLATIONS—N. V. Butenin, transl. from Russian by Scripta Technica—Blaisdell, 226 p., \$7.50. Serves as an introduction to the methods of studying nonlinear systems, theory, and the application of theory and method to the solution of concrete problems.

FUN WITH FIGURES—Raymond F. Lausmann—McGraw, 243 p., \$6.95. Collection of puzzles to stimulate an active interest in mathematics.

GENETICS AND PREHISTORY—Sir Gavin de Beer, The Rede Lecture, 1965—Cambridge Univ. Press, 38 p., maps, paper, \$1. Discusses how genetics, anatomy and physiology may be applied to the problems of history and prehistory.

GENETICS IN THE ATOMIC AGE—Charlotte Auerbach—Oxford Univ. Press, 2nd ed., 111 p., illus., \$2.50. Explains for the reader without scientific background the essentials of one branch of genetics: mutations in connection with radiation and nuclear fission.

GROWTH TO FREEDOM: The Psychosocial Treatment of Delinquent Youth—Derek Miller, introduction by Frank Foster, foreword by Karl Menninger—Indiana Univ. Press, 224 p., \$6.50. Describes three years of experiments during which mostly homeless and unloved boys were given a place to live in which they were taught, guided, counseled but not punished.

HANDBOOK OF MODEL ROCKETRY: NAR Official Handbook—G. Harry Stine—Follett, 302 p., illus., \$6.95. Includes information on engines, ignition and launching, recovery devices, payloads and altitude determination, emphasizing proper use and handling.

HAWK IN THE SKY—Franklin Russell—Holt 62 p., illus. by Frederic Sweeney, \$3. Handsomely illustrated story for boys and girls relating in detail the life of the red-tailed hawk.

LEARNING AND PROGRAMMED INSTRUCTION—Julian I. Taber, Robert Glaser and Halmuth H. Schaefer—Addison-Wesley, 182 p., illus., \$4.95. Discusses procedure as well as the principles used in programmed instruction.

LECTURES ON GAS CHROMATOGRAPHY 1964: Agricultural and Biological Applications—L. R. Matlack and H. A. Szymanski, Eds.—Plenum Press, 256 p., illus., \$12.50. Based on papers presented at the Cornell University Pesticide Workshop and the 1964 Canisius College Gas Chromatography Institute, designed to give a reasonably accurate picture of the state of the art of gas chromatography.

MAGICIAN'S MAGIC—Paul Curry, introd. by Martin Gardner—Watts, F., 269 p., illus., \$4.95. Covers a wide area of magic, from the stage illusions of Houdini to the methods of mediums and mentalists.

MATHEMATICS OF CHOICE OR HOW TO COUNT WITHOUT COUNTING—Ivan Niven—Random House, 202 p., illus., paper, \$1.95. Monographs designed to make some important mathematical ideas interesting and understandable to a large audience of high school students and laymen.

MICROWAVE TRANSMISSION CIRCUITS—George L. Ragan, Ed.—Dover, 725 p., illus., paper, \$3. Reprint (1948).

MYCENEAENS AND MINOANS: Aegean Prehistory in the Light of the Linear B Tablets—Leonard R. Palmer—Knopf, 2nd Ed. 369 p., illus., \$7.95. For those interested in the history of the Aegean.

ORGANIC REACTION MECHANISMS: An introduction—Ronald Breslow—Benjamin, 232 p., illus., \$7; paper \$3.95. A text supplement, one of a series, covering reaction mechanisms from enzyme-catalyzed to free-radical reactions, especially for the student of elementary or intermediate organic chemistry.

PARTNERS IN NATURE—Ruth H. Dudley—Funk & Wagnalls, 192 p., illus. by Eva Cellini, \$4.50. Discusses some of the symbiotic relationships that exist between different animals, between different plants and between animals and plants.

PHOTOGRAPHIC CHEMISTRY in Black-and-White and Color Photography—George T. Eaton—Morgan & Morgan, Inc., 124 p., illus., \$2.95. Intended for the photographer who has had little or no training in chemistry, physics or photographic theory.

PHYSICS—Physical Science Study Committee—D. C. Heath, 2nd ed., 686 p., illus., \$6.12. A secondary physics text presenting a broad picture of the universe in part I, light in part II, mechanics in III, and electricity and the physics of the atom in IV.

POPULAR GEMOLOGY—Richard M. Pearl—Wiley, 312 p., illus., paper, \$1.95. For the general reader, includes new scientific and industrial uses of gems, natural and artificial, and is planned to serve as a semi-technical survey of modern gemology.

PRACTICAL VACUUM TECHNIQUES—William F. Brunner, Jr. and Thomas H. Batzer—Reinhold, 198 p., illus., \$8.25. A book for technicians that contains some theory of gases and kinetics of flow, and delineates fundamental principles of gases, pumps, baffles, valves and leak detectors, with sections on maintenance and repair.

PRINCIPLES OF MICROWAVE CIRCUITS—C. G. Montgomery, R. H. Dicke and E. M. Purcell, Eds.—Dover, 486 p., illus., paper, \$2.25. Reprint (1948).

SHARKS, MORAYS AND TREASURE—Robert P. L. Straughan—Barnes, A. S., 205 p., photographs, \$5.95. Life under the sea as seen by a marine collector.

SIX NEW SCIENCE WORKBOOKS—Richard A. and Alice Fitch Martin, Bertha Morris Parker, Consultant—Golden Press, 48 p., illus., 59¢ each. Exercises, projects and experiments for boys and girls—"How Plants Grow," "The Earth and its Living Things," "You and Your Work and Play," "How Animals Live," "Stars, Seasons and the Weather," and "Animals From Far and Near."

THE SKY AT NIGHT—Patrick Moore—Norton, 224 p., illus., photographs, \$5.95. Deals with a wide range of astronomical events, odd controversies and pieces of astronomical history, as well as the great cosmological arguments, and also presents a survey of the past five years of astronomy in chronological order.

SKY ON FIRE—D. S. Halacy, Jr.—Macmillan, 186 p., \$3.50. A novel for young adults of the technicians and brave citizens who risk their lives to save their beautiful land from destruction.

THE STAPHYLOCOCCI: ECOLOGIC PERSPECTIVES—Harold E. Whipple, Ed.—N.Y. Acad. of Sciences, Annals, Vol. 128, Art. I, 456 p., illus., paper, \$8. A series of papers analyzing the staphylococcus in relation to inherent properties of the organism and to extracellular products.

STEAM POWER 1848-1956: Classes A-Z—Charles T. Knudsen—Knudsen Publications, 188 p., photographs, diagrams, \$10. A journey through history with Chicago & North Western Railway steam power.

THESES OF THE PHAROHS: Pattern for Every City—Charles F. Nims—Stein and Day, 208 p., photographs by Wim Swaan, \$15; pre-Christmas \$12.50. Indicates the richness, artistic sensitivity and the material power of this ancient Egyptian empire.

WHAT SCIENCE KNOWS ABOUT LIFE: An Exploration of Life Sources—Heinz Wolterek, transl. by Mervyn Savill—M.I.T. Press, 240 p., photographs, paper, \$2.45. An introduction to modern biology, presenting facts about the infinite variety of life on our planet in the light of recent research.

• Science News Letter, 88:236 October 9, 1965

Do You Know?

A high fluoride concentration in drinking water has been discovered as the cause of *bone disorders* among the Papago and Apache Indians on reservations located throughout southern Arizona.

Patients suffering from lung disease, which can cause wind-pipe collapse during a coughing spell, can correct their condition by learning to master a *different* cough.

Florida averages more *thunderstorms* per day than any other state.

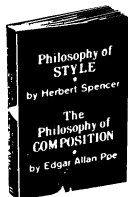
• Science News Letter, 88:236 October 9, 1965

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