

Books of the Week

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ALGAL CULTURES AND PHYTOPLANKTON ECOLOGY—G. E. Fogg—Univ. of Wis. Press, 126 p., color plates, diagrams, \$5.50. Reviews information gained from culture studies in the laboratory on the growth kinetics and metabolism of algae and considers the applicability to phytoplankton populations in nature.

BEYOND THE EDGE OF CERTAINTY: Essays in Contemporary Science and Philosophy—Robert G. Colodny, Ed.—Prentice-Hall, 287 p., \$8.75. Essays on subjects such as "the thermodynamics of purpose" and "the physics of the large."

BILLION DOLLAR BATTLE: The Story Behind the "Impossible" 727 Project—Harold Mansfield—McKay, 184 p., photographs, \$4.95. A narrative account of the difficulties encountered in the development of the successful jet transport plane.

CIRCUITS WITH PERIODICALLY-VARYING PARAMETERS including Modulators and Parametric Amplifiers—D. G. Tucker—Van Nostrand, 175 p., illus., \$6.75. Deals with the basic theory and with specific applications to modulators, parametric amplifiers and harmonic generators.

COLLEGE CHEMISTRY—Paul R. Frey—Prentice-Hall, 3rd ed., 747 p., illus., \$8.95. Revision incorporates suggestions from instructors who used previous editions.

CUBA: The Political Content of Adult Education—Richard R. Fagen—Hoover Institution, 77 p., paper, \$1.50. Collection of excerpts from teaching materials inspired by the revolution.

DESIGN OF LIQUID, SOLID AND HYBRID ROCKETS—Robert L. Peters—Hayden Book Co., 239 p., illus., \$24. Treatment stresses the use of charts, with nomographs prepared for use in preliminary design and parametric studies.

DIAMOND SYNTHESIS AND THE BEHAVIOR OF CARBON AT VERY HIGH PRESSURES AND TEMPERATURES—F. P. Bundy—N.Y. Acad. of Sciences, Annals, Vol. 105, Art. 17, 30 p., illus., paper, \$2. A discussion of how the common chemical element carbon behaves when subjected to a wide range of temperatures and pressures.

EPILEPSY and Other Chronic Convulsive Diseases: Their Causes, Symptoms & Treatment—W. R. Gowers—Dover, 255 p., paper, \$1.85. Unabridged reprint of work first published in 1885.

GALILEO GALILEI: A Biography and Inquiry into His Philosophy of Science—Ludovico Geymonat, foreword by Giorgio de Santillana, transl. from Italian with notes by Stillman Drake—McGraw, 260 p., \$6.50. The biographical material here is used mainly

as a frame to show "how the first physicist's mind was shaped."

GLOSSARY OF TERMS FREQUENTLY USED CONCERNING QUASI-STELLAR RADIO SOURCES (QUASARS)—A. G. W. Cameron—Am. Inst. of Physics, 19 p., paper, \$1 direct to publisher, 355 E. 45th St., New York 17, N.Y. Explains what quasars are and such terms as "abundance of elements" and "variability of light."

GROUP CONSTANTS FOR NUCLEAR REACTOR CALCULATIONS—L. P. Abagyan and others; I. I. Bondarenko, Ed., transl. from Russian—Consultants, 151 p., \$17.50. Monograph dealing with principles in the compilation and use of multigroup systems of constants, gives review of data used and tables of group constants.

GUIDE TO PEACE CORPS: Who, How and Where—Charles E. Wingenbach, preface by R. Sargent Shriver, foreword by Hubert H. Humphrey—McGraw, 188 p., paper, 95¢. Reprint (1963).

THE HUMAN BRAIN: Its Capacities and Functions—Isaac Asimov—New Am. Lib., 357 p., illus. by Anthony Ravielli, paper, 80¢ direct to publisher, 501 Madison Ave., New York 10022. Originally published in 1963, explains how the human brain organizes and controls the functioning of hormones, glands, the nervous system, our senses and reflexes.

HYPERBARIC OXYGENATION—Christian J. Lambertsen, George Bond and Julius H. Jacobson II, Eds.—N.Y. Acad. of Sciences, Annals, Vol. 117, Art. 2, 243 p., illus., paper, \$7. Series of conference papers on the clinical experience and implications of hyperbaric oxygenation, pharmacology, safety considerations, and the hyperbaric chamber.

AN INTRODUCTION TO PATENTS for Inventors and Engineers—C. D. Tuska—Dover, 192 p., illus., paper, \$1.50. Reprint of seventh edition (1956), entitled Patent Notes for Engineers.

LOGIC, Part I; Part II: Demonstrative Inference, Deductive and Inductive; Part III: The Logical Foundations of Science—W. E. Johnson—Dover, 255 p., 258 p., 192 p., paper, \$1.50 each. Unabridged republication of original (1921-24) editions.

THE MINERAL RESOURCES OF THE SEA—John L. Mero—Elsevier Pub. Co. (N.Y.), 312 p., illus., \$9.75. Contains an assessment of the total deposits found in the sea and the rate of accumulation of industrially important elements in these deposits.

MINIMAL RELIGION—Frederick Nymer—Libertarian Press, 384 p., paper, \$3. A nonsectarian interpretation of Christianity according to the principle of "strict constructionism" of Scripture, mostly cosmological and ethical.

THE NEW MATHEMATICS FOR PARENTS—Ralph T. Heimer and Miriam S. Newman—Holt, 128 p., illus., \$2.95. Explains elementary set concepts, numeration systems, modular or finite arithmetic, and the modern approach to algebraic ideas.

PHYSICAL CHARACTERISTICS OF COMETS—S. K. Vsekhsvyatskii, transl. from Russian—IPST (OTS 62-11031), 596 p., illus., paper, \$6. A comprehensive summary of data on the nature of comets, on cometary photometry, statistical analysis of orbital elements, and catalogue of absolute magnitudes, observations and physical characteristics, with both name and comet indexes.

PRINCIPLES OF ANIMAL PSYCHOLOGY—N. R. F. Maier and T. C. Schneirla—Dover, rev. ed., 683 p., illus., paper, \$3. Enlarged and corrected republication of work published in 1935, with new introduction and list of supplementary references.

THE PROTECTION AND PROMOTION OF MENTAL HEALTH IN SCHOOLS—Nadine M. Lambert with others—PHS (GPO), 57 p., paper, 40¢. Monograph focuses attention on what the school could do in preventing mental and emotional disorders in children.

ROBERT OPPENHEIMER: The Man and His Theories—Michel Rouze, transl. from French by Patrick Evans—Eriksson, 192 p., photographs, \$5. Readable biography of a contemporary scientist and his contributions to modern physics.

SCALLOPS AND THE OFFSHORE FISHERY OF THE MARITIMES—N. Bourne—Fisheries Res.

Bd. of Canada, 60 p., illus., \$1.75 direct to Queen's Printer, Ottawa, Canada. Deals with the biology of the sea scallop and the operations and problems of the offshore fishery.

THE SEAL SUMMER—Nina Warner Hooke—Harcourt, 160 p., 34 photographs, \$3.95. True story of a wild seal and his human friends.

THE SELF-INDUCED OSCILLATIONS OF ROTORS—Mikhail Yaklevich Kushul, transl. from Russian—Consultants, 124 p., illus., paper, \$25. Monograph dealing with quasi-periodic solutions of quasi-linear multiple-degree-of-freedom systems when there are several resonance relations between the exciting and natural frequencies.

SIGMUND FREUD: The Man and His Theories—Gerard Lauzun, transl. from French by Patrick Evans—Eriksson, 224 p., photographs, \$5. Profile of a groundbreaking contemporary scientist and the development of psychoanalytical work since his death, for the layman and young adult.

A SOPHISTICATE'S PRIMER OF RELATIVITY—P. W. Bridgman—Harper, 164 p., paper, \$1.35. Reprint (1962), presents a critical scrutiny of the theory of special relativity.

SPECIALIZED INFORMATION CENTERS—Allen Kent with John Canter—Spartan Bks., 290 p., illus., \$9. Presents the results of a survey of specialized information centers, organized by unit operations performed.

THE STANDARD PERIODICAL DIRECTORY, 1964-65—Oxbridge Publishing Co., 544 p., plus semi-annual supplement, paper, \$12.50. A new directory listing 20,000 U.S. and Canadian periodicals under 200 subject headings, making an effort to catalog the entire periodical field, from dailies to biennials, newsletters, directories, house organs included, with 70-page alphabetical index of titles.

SYMBOLISM AND TRUTH: An Introduction to the Theory of Knowledge—Ralph Monroe Eaton—Dover, 330 p., paper, \$2. Reprint (1925), a critical analysis of the role of symbols in knowledge.

SYMBOLS, SIGNALS AND NOISE: The Nature and Process of Communication—J. R. Pierce—Harper, 305 p., diagrams, paper, \$2.25. Reprint (1961), a study of the concepts of Shannon's information theory, its relation to physics, cybernetics, psychology and art.

SYNTHETIC TRANSURANUM ELEMENTS—Earl K. Hyde—USAEC, 44 p., illus., paper, single copies free upon request direct to USAEC, P.O. Box 62, Oak Ridge, Tenn. 37831. On the transmutation, discovery and importance of transuranium elements.

SYSTEMATICS AND THE ORIGIN OF SPECIES: From the Viewpoint of a Zoologist—Ernst Mayr, new introd. by author—Dover, 334 p., illus., paper, \$2.25. Unabridged reprint (1942).

TOWARD AN UNDERSTANDING OF HOMOSEXUALITY—Daniel Cappon—Prentice-Hall, 302 p., \$6.95. Summarizes the problem and treatment in nontechnical language.

TWENTIETH CENTURY CHINA—O. Edmund Clubb—Columbia Univ. Press, 470 p., maps, paper, \$2.75. Traces China's political history from the turbulent end of the dynastic era to the turn of the century up through the present Communist period.

URBAN AMERICA AND THE PLANNING OF MENTAL HEALTH SERVICES—Leonard S. Cottrell and others, introd. by Leonard J. Duhl—Group for the Advancement of Psychiatry, 122 p., paper, \$1.50. Proceedings of symposium discussing the role of psychiatric services in relation to problems of poverty, housing, delinquency and desegregation.

WEATHER: The Science of Meteorology from Ancient Times to the Space Age—Frank Ross, Jr.—Lothrop, 200 p., illus., \$3. Tells the general reader how the science of meteorology grew, and about the tools and methods meteorologists work with today.

WEEK IN YANHUITLAN—Ross Parmenter—Univ. of New Mexico Press, 375 p., illus. by author, \$5. A narrative account of a sixteenth-century monastery in a remote Mexican village.

YOUR HEREDITY AND ENVIRONMENT—Amaran Scheinfeld, assisted in research and editing by Herbert L. Cooper and others—Lippincott, rev. ed., 830 p., illus. by author, \$12.50. This greatly enlarged edition replaces the author's popular earlier (1939) book, *You and Heredity*, and its much-revised successor (1950), *The New You and Heredity*.

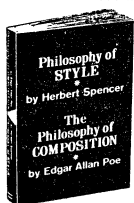
• Science News Letter, 87:140 February 27, 1965

Do You Know?

Cherries left on the tree one year may harbor spores of brown rot fungus and infect the following year's crop.

Each year 600,000 children under five years old swallow poisonous substances found in their homes.

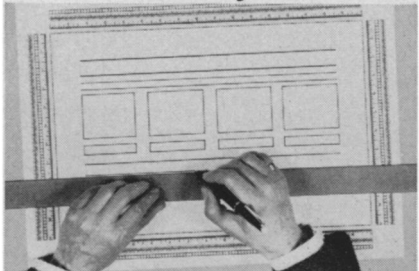
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