

Books of the Week

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ACUTE CONDITIONS: Incidence and Associated Disability. United States, July 1963-June 1964—PHS (GPO), 51 p., paper, 40¢. Selected findings and detailed tables.

AGE: Astro-Geologia—Engelbert Pigal—Archivo de Interlingua (Austria), 27 p., paper, \$2. Original monograph in Interlingua in which the author discusses his "theory of planetary interference" and applies it to such fundamental problems of geology as the origin of mountains and oceans.

ASTRONAUTS' NURSE: Dee O'Hara—Virginia B. McDonnell—Nelson, 128 p., photographs, \$2.75. Tells young people about the work of the first aerospace nurse.

BIOLOGICAL CLOCKS IN MEDICINE AND PSYCHIATRY: Curt Paul Richter—Thomas, C. C., 108 p., illus., \$8.50. Exhibit of experimental and clinical studies on timing devices and periodic clocks found in Norway rats, pocket mice and ground squirrels, in normal man and in patients with periodic somatic and mental illnesses.

CELLULOSE IN ANIMAL NUTRITION, BSCS Pamphlet 22—R. E. Hungate—AIBS (Heath), 36 p., illus., paper, 60¢. Summarizing research on cellulose utilization in termites and ruminants, the author describes the dependency of these animals on microorganisms and the importance of these relationships.

CERAMIC ACOUSTIC DETECTORS—Alevtina Aleksandrovna Anan'eva, transl. from Russian—Consultants, 122 p., illus., paper, \$22.50. Gives results of the author's investigations of piezoceramic acoustic receivers.

CHANGE AND CHALLENGE IN AMERICAN EDUCATION—James E. Russell—Houghton, 115 p., paper, \$1.95. The Secretary of the Educational Policies Commission here presents the shift in philosophical and social context and the educators' responses in elementary, secondary and higher education.

THE CHEMISTRY OF PLANT PROCESSES—C. P. Wittingham—Philosophical Lib., 209 p., illus.,

\$7.50. Introduces the student to the fundamentals of cellular metabolism and those processes which concern the plant as a whole.

COMPUTERS: From Sand Table to Electronic Brain—Alan Vorwald and Frank Clark—Whittlesey House, rev. ed., 176 p., illus., \$3.50. Includes instructions for building a computer.

DINOSAUR HUNT—George O. Whitaker with Joan Meyers—Harcourt, 94 p., photographs by G. O. Whitaker, drawings by Michael Insinna, \$3.50. A detailed account for young people of the discovery in New Mexico of the first complete skeleton of Coelophysis, a small dinosaur that preceded the giant ones of North America.

THE DISCOVERY OF TIME—Stephen Toulmin and June Goodfield—Harper, 280 p., \$6.95. An intellectual history of the processes by which scientific thought has continually interacted with the wider social and cultural environment.

ECOLOGICAL OF SOIL-BORNE PLANT PATHOGENS: Prelude to Biological Control—Kenneth F. Baker and William C. Snyder, Eds.—Univ. of Calif. Press, 571 p., illus., \$12. Comprehensive survey of present knowledge and prospective developments bearing on biological rather than chemical means of controlling root diseases.

ELEMENTARY PLASMA PHYSICS—Lev A. Arzimovich, transl. from Russian by Scripta Technica—Blaisdell Pub. Co., 188 p., diagrams, paper, \$2.25. Attempts to interpret the fundamentals of plasma physics in a manner understandable to a reader with high school knowledge of mathematics and physics.

FAMILY HOLIDAYS AROUND THE WORLD—Preface by Ruth C. Hall, Arline Rudeski, Ed.—Am. Home Economics Assn., 80 p., paper, \$1.50. Describes region by region observances of family customs on special days, from Victoria Day in Canada to the Barrio fiesta in the Philippines.

FOOD QUALITY: Effects of Production Practices and Processing—George W. Irving Jr., and Sam R. Hoover, Eds.—AAAS, 298 p., illus., \$8.50. Symposium papers by specialists discussing the maintenance and improvement of high quality fruits, vegetables, cereals, dairy products, eggs and meats.

FOUNDATIONS OF ELECTRICITY AND MAGNETISM—Thomas G. Barnes—Heath, 381 p., diagrams, \$8. Approaches the study of electricity and magnetism through logical development starting out with Maxwell's electromagnetic theory.

THE GREAT EXPERIMENT: An Intimate View of the Everyday Workings of the Federal Government—John D. Weaver—Little, 307 p., \$5.95. A very readable and informative account of bureaucratic performance in the U.S. form of self-government.

GUARDING THE TREASURED LANDS: The Story of the National Park Service—Ann and Myron Sutton—Lippincott, 160 p., photographs, \$3.75. About the rangers, naturalists, geologists and archaeologists who develop and maintain our national parks as educational playgrounds.

THE HABITABLE EARTH—Ronald Fraser—Basio Books, 155 p., illus., \$4.50. Citing recent evidence from geophysics, geology and biochemistry, geophysicist here gives the layman insight into the

processes that formed an environment that gave rise to and sustained living organisms.

HUMAN GENETICS AND ITS FOUNDATIONS—Maurice Whittinghill—Reinhold, 431 p., \$8.95. Text presents thorough treatment of fundamental Mendelian, population, biochemical and developmental genetics, incorporating the most recent advances in cytogenetics and blood genetics.

INTEGRATED CIRCUITS: Design Principles and Fabrication—Raymond M. Warner, Jr., with James N. Fordemwalt, Eds.—McGraw, 385 p., illus., \$12.50. Presents a comprehensive compilation of the theory and practical knowledge accumulated by Motorola semiconductor engineers during recent years.

AN INTELLECTUAL AND CULTURAL HISTORY OF THE WESTERN WORLD, Vol. I: From Earliest Times through the Middle Ages. Vol. II: From the Renaissance through the Eighteenth Century. Vol. III: From the Nineteenth Century to the Present Day—Harry Elmer Barnes—Dover, 3rd rev. ed., 1,381 p., diagrams, paper, \$2 each, three-volume set \$6. Fully revised edition with bibliographies through 1963.

INTERNATIONAL CONFERENCE ON AVIAN TUMOR VIRUSES—Joseph W. Beard, Ed.—National Cancer Institute (GPO), 803 p., 120 plates, \$6.25. Monograph presents papers on leukosis and associated neoplasms, avian and mammalian host response to RSV, immunological and biological virus properties, and ultrastructure.

MINERALS AND MEN: An Exploration of the World of Minerals and Its Effect on the World We Live in—James F. McDivitt—Johns Hopkins Press, 158 p., illus., paper, \$1.95. For the interested layman who wants to know more about the importance of non-fuel minerals—the steel industry, the base metals, light metals and industrial rocks.

NEW PERSPECTIVES IN PSYCHOANALYSIS: Contributions to Karen Horney's Holistic Approach—Harold Kelman, Ed.—Norton, 249 p., \$5. Essays by the analyst and research clinician who contributed significant modifications to Freudian theory.

THE NEW WORLD OF COMPUTERS—Alfred Lewis—Dodd, 79 p., photographs, \$3. About the applications of computers, their languages, and the human skills they use.

THE NEW WORLD OF WOOD—Frank Ernest Hill—Dodd, 80 p., photographs, \$3. About logging, lumber, pulp, packaging, plywood and plastics.

NO JOY IN MUDVILLE: The Dilemma of Major League Baseball—Ralph Andreano, foreword by Jim Brosnan—Schenkman, 191 p., illus., \$3.95. An economist and baseball fan takes a scholarly look at the commercial decline of organized baseball.

NUCLEAR SCIENCE AND ENGINEERING at State Universities and Land-Grant Institutions—Office of Institutional Research, Assn. of State Universities and Land Grant Colleges, 15 p., paper, single copies free upon request direct to publisher, 1785 Mass. Ave., N.W., Washington, D.C. A guide to facilities and programs, includes listing of accelerators and training reactors.

ON ESCALATION: Metaphors and Scenarios—Herman Kahn—Praeger, 308 p., \$6.95. With a nuclear war in mind, this is a closely reasoned analysis in escalation decision-making illustrated with examples from history and logical plottings of theoretical escalation.

THE PENGUIN BOOK OF PETS—Phil Drabble—Penguin, 270 p., plates, drawings, paper, \$1.45. Expert advice on feeding, handling, housing, breeding and general care of both common and rare pets, ranging from badgers to lizards and toads.

THE PHYSIOLOGY OF NEMATODES—D. L. Lee—Freeman, 154 p., illus., paper, \$2.50. University level review of recent research in this particular field of biology.

PSYCHOLOGY OF THE CHILD—Robert I. Watson—Wiley, 2nd ed., 635 p., illus., \$7.50. New edition features discussion of new research evidence such as findings concerning achievement motivation and externally aroused behavior tendencies.

QUANTUM ELECTRON THEORY OF AMORPHOUS CONDUCTORS—Aleksandr Ivanovich Gubanov, transl. from Russian by A. Tybulewicz—Consultants, 277 p., \$17.50. Monograph dealing with experimental and theoretical investigations of liquid and amorphous semiconductors.

RECENT ADVANCES IN BIOLOGICAL PSYCHIATRY, Vol. VII—Joseph Wortis, Ed.—Plenum Press, 298 p., \$13.50. These proceedings (1964) deal with the effect of LSD, conditioning and memory, and research in genetic and biochemical determination.

SUNSPOTS—R. J. Bray and R. E. Loughhead—Wiley, 303 p., illus., \$13.75. A detailed account, from pre-telescopic observations to high-resolution observing methods probing the morphology, the physical conditions and magnetic fields of individual sunspots, the properties of sunspot groups, and magnetohydrodynamic theories of the origin of sunspots.

TOMORROW'S PARENTS: A Study of Youth and Their Families—Bernice Milburn Moore and Wayne H. Holtzman—Univ. of Texas Press, 371 p., \$7.50. Presents and analyzes the findings of a pioneering survey focused on the social, emotional and intellectual development of today's youth, based on information gathered at 189 high schools in Texas.

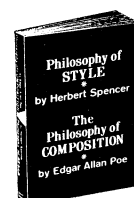
• Science News Letter, 87:300 May 8, 1965

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