

books OF THE WEEK

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THE AGE OF MAMMALS—Björn Kurtén—Columbia Univ. Press, 1972, 250 p., plates, drawings, tables, maps, \$9.95. Covers the changing geography, climates, and the complex forms of life during the last 65 million years of geologic time; describes each of the Cenozoic epochs in turn, from Paleocene to Pleistocene, with detailed accounts of the diversity of species that populated the continents.

THE AGED AND COMMUNITY MENTAL HEALTH: A Guide to Program Development—Formulated by the Committee on Aging, GAP—Group for the Advancement of Psychiatry, 1971, 94 p., paper, \$2. Offers guidelines by setting priorities and developing programs for meeting more effectively the mental health needs of old people in community settings.

ARE OUR DESCENDANTS DOOMED? Technological Change and Population Growth—Harrison Brown and Edward Hutchings, Jr., Eds.—Viking Press, 1972, 377 p., diagrams, tables, \$12.50; paper, \$3.45. Conference papers by a group of research scientists, economists and sociologists considering various aspects of the world's current demographic dilemma, from the changing balance of births and deaths, to belief systems and family planning.

THE ARENA OF LIFE: The Dynamics of Ecology—Lorus and Margery Milne—Doubleday/Natural Hist. Press, 1972, 352 p., 260 photographs, glossary, \$15. Biologists present the interwoven ecological principles that govern all forms of life, the ways plants and animals meet the challenges in oceans, fresh waters and soil, in rain forests, deserts and in high elevations; focus is on ways in which mankind might minimize the destructive impact of technology upon the environment.

THE ARTERY AND THE PROCESS OF ARTERIOSCLEROSIS: Pathogenesis—Stewart Wolf, Ed.—Plenum Press, 1971, 314 p., micrographs, diagrams, \$14.50. Topics range from the structure of arteries, growth adaptation and repair, to thrombotic mechanisms in atherosclerosis, and the proliferative nature of atherosclerosis.

BIOLOGICAL RHYTHMS IN HUMAN AND ANIMAL PHYSIOLOGY—Gay Gaer Luce—Dover, 1971, 183 p., illus., paper, \$2.50. First published by National Institute of Mental Health in 1970, this unabridged reprint contains the results of more than 650 recent scientific investigations of rhythms affecting organisms, from monthly, seasonal and annual cycles to cave studies, and electric field changes of circadian rhythms in man.

THE CELLS AND TISSUES OF THE IMMUNE SYSTEM: Structure, Functions, Interactions—Leon Weiss—Prentice-Hall, 1972, 252 p., micrographs, drawings, \$9.95; paper, \$6.95. Depicts the functions of the immune system through the submicroscopic structure of its organs, tissues and cells; deals with the lymphatic tissues, the cells, and with humoral antibody production and delayed hypersensitivity.

CLEARING THE AIR: The Impact of the Clean Air Act on Technology—John C. Redmond, John C. Cook and A. A. J. Hoffman, Eds.—IEEE Press (Wiley), 1972, 167 p., photographs, diagrams, \$8.95; paper, \$4.50. Gives brief history of air pollution laws, discusses monitoring techniques and instrumentation, and examines the impact of Clean Air Amendments of 1970 on industry.

COLORFUL MINERAL IDENTIFIER—Anthony C. Tennen—Sterling Pub. Co., 1972, 224 p., 120 color photographs by Werner Lieber, drawings, \$3.50. Pocket-size guide to the most popular minerals, gives concise information on color variation, streaks, lustre, hardness, crystal system, and summary of localities where minerals are most commonly found.

CONSERVATION FOR SURVIVAL: An Ecological Strategy—Kai Curry-Lindahl—Morrow, 1972, 335 p., \$6.95. Concerned with the renewable natural resources—air, water, soil, vegetation and animals (including man), and the necessity of conservation of nature for survival. Surveys ecological problems on a global scale, and presents the case for application of conservation principles on an international scale.

COORDINATION CHEMISTRY, Vol. 1—Arthur E. Martell, Ed.—Van Nostrand Reinhold, 1971, 577 p., diagrams, tables, \$32.50. First of a three-volume comprehensive series, presents basic study of the bonding spectroscopy and chemical properties of metal complexes, covers bonding theory, spectra of coordination compounds, and solution equilibrium.

THE DOMINANT MAN: The Pecking Order in Human Society—George MacLay and Humphrey Knipe—Delacorte Press, 1972, 195 p., \$6.95. Draws on history and anthropology, on clinical studies and research into the mechanics of human communication to discuss such common phenomena as confrontation behavior, signaling of dominance, hereditary class, and industrial ranking systems.

DRUG ACTION AND DRUG RESISTENCE IN BACTERIA: Macrolide Antibiotics and Lincomycin—Susumu Mitsuhashi, Ed.—Univ. Park Press, 1972, 344 p., illus., tables, \$17.50. Monograph provides information and solution to the problems of bacterial drug resistance from the clinical, genetic and biochemical points of view.

DRUGS, DEVELOPMENT AND CEREBRAL FUNCTION—W. Lynn Smith, Ed., foreword by Marcel Kinsbourne—Thomas, C. C., 1972, 404 p., photographs, diagrams, \$22. Reports on research studies involving complex investigative procedures at various levels of biological organization and disorganization, probing drugs that influence perceptual and cognitive functions; help those with emotional, memory and learning disorders; control emotional responses, and influence specific behavior.

DRUGS, SOCIETY AND HUMAN BEHAVIOR—Oakley S. Ray—Mosby, 1972, 300 p., diagrams, paper, \$5.95. Discusses the non-drugs, psychotherapeutics, narcotics, and hallucinogens, their history, classification, medical uses, abuse, symptoms produced, and dependency potential.

FERRITES: Proceedings of the International Conference—Yasushi Hoshino, Shuichi Iida and Mitsuo Sugimoto, Eds.—Univ. Park Press, 1972, 707 p., photographs, diagrams, \$36. Papers cover topics ranging from diffusion and magnetic relaxation, physical studies on magnetism of ferrites, to soft ferrites, ferrites for recording heads, microwave ferrites, and semiconducting magnetic chalcogenides.

HANDBOOK OF ENVIRONMENTAL MANAGEMENT, Vol. 1: Fundamentals—Carlos J. Hilado—Technomic, 1972, 113 p., tables, paper, \$25. Presents in descriptive and tabulated form information essential to an understanding of man's concern about changes in the biosphere, population density, food, water, air, resources and energy consumption.

HEPATIC ENCEPHALOPATHY—Frederick Steigmann and Bernard F. Clowdus II—Thomas, C. C., 1971, 201 p., color plates, \$13.50. Provides concise review of the established fundamental physiologic, pathologic and biochemical factors involved in the production of hepatic coma, and evaluates present-day therapy recommended for this condition.

A HISTORY OF ELECTRICITY AND MAGNETISM—Herbert W. Meyer, foreword by Bern Dibner—Burndy Lib. (MIT Press), 1971, 325 p., illus., \$10. Presents both the student of science and the general reader with a concise, readable account of the developments, inventions and men that led mankind into the abundance of the electrical age, from 17th century experiments with static electricity to the advanced state of electrical science today.

INTERPRETATIONS OF LIFE AND MIND: Essays Around the Problem of Reduction—Marjorie Grene, Ed.—Humanities Press, 1971, 152 p., illus., \$7.50. Papers by both philosophers and scientists address themselves to the tendency of modern science to reduce biology to physics, the person to a series of behavior, or minds to machines.

THE LIFE OF BENJAMIN BANNEKER—Silvio A. Bedini—Scribner, 1972, 434 p., 21 plates, \$14.95. Biography based on manuscripts and personal papers, presents scholarly study of the life and work of the 18th century free Negro tobacco planter who taught himself mathematics and astronomy at age 58, and took his place among early American mathematical practitioners.

LOVE AND HATE: The Natural History of Behavior Patterns—Irenäus Eibl-Eibesfeldt, transl. from German by Geoffrey Strachan—Holt, 1972, 276 p., photographs, drawings, \$7.95. Investigation uses the methodology of comparative biology to show that man's aggressive impulses are counterbalanced by his equally deep-rooted social tendencies, that both aggressive and altruistic behavior are preprogrammed by phylogenetic adaptations and that there are therefore pre-ordained norms for our ethical behavior.

THE MAKING OF A LIBRARY: The Academic Library in Transition—Robert S. Taylor—Wiley-Becker & Hayes, 1972, 250 p., diagrams, \$12.95. Describes the results of planning Hampshire College's prototype library, designed to serve as an experimenting and extended library center, housing print and nonprint collections, a display gallery, bookstore, cable TV system and film studios with supporting services.

MEASURING OSCILLOSCOPES—J. F. Golding, Ed.—Iliffe (Transatlantic Arts), 1971, 236 p., illus., \$16.50. Written mainly for users of oscilloscopes, the book treats construction and operation, probes, amplitude, time, the display, the complete oscilloscope, and its applications.

NOISE POLLUTION: The Unquiet Crisis—Clifford R. Bragdon—Univ. of Penn. Press, 1972, 280 p., illus., \$15. Compendium of general information on noise, includes detailed case study of a community noise survey undertaken in metropolitan Philadelphia, and provides directives for constructive and positive solutions.

PATTERNS OF CHANGE IN TROPICAL PLANTS—G. P. Chapman—Univ. of London Press (Thomas, C. C.), 1972, 112 p., plates, drawings, paper, \$4.50. Brings together material from the study of tropical plants with particular emphasis on evolutionary change, the causes of variation, modification of primitive flower, the concept of species, and the evolution of crop plants.

PHOSPHATES IN FOOD PROCESSING: Symposium, University of Guelph, Ontario, 1970—J. M. Deman and P. Melnychyn, Eds.—Avi Pub. Co., 1971, 242 p., illus., \$20. Symposium papers deal with chemistry, nomenclature and analysis of phosphates, interaction with individual food components, use of phosphates in food products, and public health considerations of their use in food processing.

RACISM AND PSYCHIATRY—Alexander Thomas and Samuel Sillen—Brunner/Mazel, 1972, 176 p., \$7.50. Examines some of the ways in which white racism has influenced theory and practice in psychiatry and allied fields. The book sharply challenges a number of traditional assumptions.