

books OF THE WEEK

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AIRPLANES: From the Dawn of Flight to the Present Day—Enzo Angelucci—McGraw, 1973, 287 p., illus. by Marco Rota, tables, \$14.95. Generously illustrated history of the flying machines, depicts and describes more than 900 aircraft, from Lionardo's studies to the space shuttle, with tabulated section of data and chronologies.

THE ALMANAC OF AMERICAN POLITICS: The Senators, the Representatives, Their Records, States and Districts, 1974—Michael Barone, Grant Ujifusa and Douglas Matthews—Gambit 1973, 1240 p., photographs, paper, \$6.95. Contemporary demographic reference source.

AND THEN THERE WERE NONE: America's Vanishing Wildlife—Nina Leen with commentary by Joseph A. Davis—HR&W, 1973, 128 p., 50 photographs, \$8.95. Shows threatened wildlife species in the United States with zoologist's comments on the causes of their near extinction.

THE ANIMAL IN ITS WORLD: Explorations of an Ethologist, 1932-1972, Vol. 2: Laboratory Experiments and General Papers—Niko Tinbergen, foreword by Sir Peter Medawar—Harvard U Pr, 1973, 231 p., illus., \$14. Selections from Nobelists' work explore the search for animal roots in human behavior, discuss behavior and natural selection, appeasement signals, early childhood autism, and the nature of ethology.

ENCYCLOPEDIA OF ASSOCIATIONS, Vol. 1: National Organizations of the U.S. Vol. 2: Geographic and Executive Index—Margaret Fisk, Ed.—Gale, 1973, 8th ed., 1546 p., 508 p., \$45, \$28.50. Vol. 1 contains detailed descriptions of professional, trade and other organizations, with 41,000-item alphabetical and keyword index. Vol. 3: New Associations and Projects, published quarterly, \$48 annually with binder, updates and supplements information.

EXERCISE EQUIVALENTS OF FOOD: A Practical Guide for the Overweight—Frank Konishi—S Ill U Pr, 1974, 75 p., tables, \$6.95. Nutrition specialist's concise handbook of recommended body weight maintenance, with tables listing the equivalents in calories of

commonly consumed foods expressed in minutes of walking, bicycling, stepping, swimming and jogging.

THE FUNCTIONS OF SLEEP—Ernest L. Hartmann, M.D.—Yale U Pr, 1973, 198 p., diagrams, tables, \$8.50; paper, \$2.95. A rigorously scientific study summarizing research on the systematic functions of sleep, how it acts to restore physical and mental equilibrium in the human organism.

THE GREATEST ADVENTURE: Basic Research That Shapes Our Lives—Eugene H. Kone and Helene J. Jordan, Eds.—Rockefeller U Pr, 1974, 304 p., photographs, diagrams, \$9.80. Eminent scientists introduce the layman to the processes by which pure research in a variety of scientific disciplines turned into unexpected technological developments of vital importance to the lives of men.

A GUIDE TO MEDICINAL PLANTS OF THE UNITED STATES—Arnold and Connie Krochmal Quadrangle, 1974, 260 p., photographs, drawings, \$12.95. For both botanist and layman, depicts and describes 272 plants selected for their potential medicinal properties and clear identification.

KITS & PLANS—Joseph Rosenbloom—Oliver Pr, 1973, 280 p., paper, \$3.95. Guide to suppliers of catalogs and do-it-yourself products, with master index to thousands of items, from kennel runs, greenhouses and metal assayers, to lasers and hovercraft.

THE LIFE CYCLE OF ECONOMIC DEVELOPMENT—Nathan B. Forrester—Wright-Allen Pr, 1974, 194 p., diagrams, \$20. Presents structure of a model designed to help explain the dynamics of stagnation in industrial economies, and how pressures latent in the growth phase can later emerge to suppress growth. The model serves to test the impact of various policies on the life cycle of development.

THE MALNOURISHED MIND—Elie A. Shnour, foreword by Lee Salk—Anchor Pr/Doubleday, 1974, 196 p., illus., \$6.95. Written by scientist for the layman, the book presents the findings of research about the extent and effect of brain-damaging malnutrition, particularly during critical developmental stages.

NORTH SEA OIL AND GAS: Implications for Future United States Development—Irvin L. White and others—U of Okla Pr, 1973, 176 p., paper, \$2.95. Provides a general assessment of the North Sea oil and gas resources and developments, reviews the technology used, and compares operations with those conducted in offshore U.S.

NUTRITIONAL PROBLEMS IN A CHANGING WORLD—Dorothy Hollingsworth and Margaret Russell, Eds.—Wiley, 1974, 325 p., tables, \$32.50. Discusses present and future nutritional problems in affluent societies, surveys nutritional status of populations, child development, adults and the elderly.

THE PLANETS: Some Myths and Realities—Richard Baum, foreword by Patrick Moore—Halsted Pr, 1973, 200 p., plates, \$8.95. Not intended as a comprehensive survey of the solar system, the book is rather an unusual collection of controversial historical episodes, described with a minimum of technical jargon for the astronomy-minded reader.

RIDDLES IN HISTORY—Cyrus H. Gordon—Crown, 1974, 188 p., color plates, illus., maps, \$7.95. Specialist in deciphering coded messages deals with the controversial mysteries and intricacies of ancient cryptograms and inscriptions such as the Parabaiba text, the Kensington Stone, the Spirit Pond Runestones, and the recently debunked Vinland map.

SOLO: The Story of an African Wild Dog—Hugo van Lawick, introd. by Jane van Lawick Goodall—HM, 1974, 159 p., photographs in color, drawings by David Bygott, \$6.95. Seen through the sensitive eyes of an artist-naturalist, the book documents a few months in the life of a pack of African wild dogs.

SOUTH ASIAN ARCHAEOLOGY—Norman Hammond, Ed., foreword by Sir Mortimer Wheeler—Noyes Pr, 1974, 398 p., photographs, drawings, maps, tables, index, \$20. Conference papers bring together recent research on the prehistoric and historic past of the area comprising India, Pakistan, Bangladesh, Nepal, Afghanistan and Sri Lanka.

STRESS DISEASE: The Growing Plague—Peter Blythe—St Martin, 1973, 175 p., \$5.95. British psychotherapist, founder of the Institute of Psychosomatic Therapy, examines the problem and proposes realistic ways to reduce anxiety through insight, therapy and education.

TOPOPHILIA: A Study of Environmental Perception, Attitudes and Values—Yi-Fu Tuan—P-H, 1974, 260 p., diagrams, \$8.95; paper, \$4.95. Study focuses on human responses to environment, and examines them on group, specie and individual level. Discusses the search for environmental values in city, suburb, countryside and wilderness.

WHAT EVERY PATIENT SHOULD KNOW ABOUT HEALTH AND HIS DOCTOR: A Guide to Symptoms, Common Diseases, Diagnostic Tests, Medications and Treatments, Home Health Care and the Periods of Life—R. Douglas Collins, M.D.—Exposition Pr, 1973, 420 p., \$10. Practicing physician answers most frequently asked questions, stressing prevention of disease throughout.

TEXTBOOKS

ACOUSTIC FIELDS AND WAVES IN SOLIDS, Vols. I and II—B. A. Auld—Wiley-Interscience, 1973, 423 p., 414 p., diagrams, \$24.95 each; set: \$45. Developed from a lecture course on mechanical waves and vibrations in solids, for first and second year graduate students in Applied Physics.

EVOLUTIONARY PALEONTOLOGY OF THE MARINE BIOSPHERE—James W. Valentine—P-H, 1973, 526 p., diagrams, maps, \$16.95. Reference and advanced text, represents a theoretical review of biological aspects of the marine fossil record.

GRAVITATION—Charles W. Misner, Kip S. Thorne and John Archibald Wheeler—W. H. Freeman, 1973, 1279 p., photographs, diagrams, \$39.50; paper, \$19.95. Textbook on gravitation physics, divided into first-track material focusing on the key physical ideas, and track-2 chapters designed for a rigorous graduate-level course.

METHODS AND THEORIES OF ANTHROPOLOGICAL GENETICS—M. H. Crawford and P. L. Workman, Eds.—U of NM Pr, 1973, 509 p., diagrams, tables, \$20. Reference work and up-to-date textbook, examines important areas of research, and presents field data in support of modern theories in population genetics and demography.

WILDLIFE ECOLOGY: An Analytical Approach—Aaron N. Moen, foreword by Douglas L. Gilbert—W. H. Freeman, 1973, 458 p., illus., tables, \$17.50. Text analyzes the response of free-ranging animals to their environment in terms of energy metabolism and nutrition, as well as factors affecting the organism in terms of their impact on its behavior and productivity.

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