

books OF THE WEEK

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THE ANIMAL IN MAN—Lorus and Margery Milne—McGraw-Hill, 1973, 250 p., \$7.95. Drawing on their own researches and observations in the field of biology as well as on data from the frontiers of behavioral sciences, the authors make a highly readable contribution to the understanding of behavior by comparing and contrasting human and animal lives and societies.

GESTALT THERAPY INTEGRATED: Contours of Theory and Practice—Erving Polster and Miriam Polster—Brunner/Mazel, 1973, 329 p., \$12.50. Presents Gestalt therapy principles, clearly defines and elaborates such concepts as contactfulness, resolution of polarities, behavioral experiments and the undoing of crippling, growth-retarding introjects.

THE HANDY HOME MEDICAL ADVISOR and Concise Medical Encyclopedia—Morris Fishbein, M.D.—Doubleday, 1973, new rev. ed., 410 p., illus., \$5.95. Combines handbook of chapters discussing all aspects of health with second part of encyclopedic entries defining the most common diseases and ailments.

HISTORY OF ENTOMOLOGY—Ray F. Smith, Thomas E. Mittler and Carroll N. Smith, Eds.—Annual Reviews, 1973, 517 p., illus., \$10. Volume emphasizes the personalities of past scientists who contributed to the development of entomological ideas and principles, starting with early entomology in East Asia, it ends with the history of biological control.

HUMAN ASSOCIATIVE MEMORY—John R. Anderson and Gordon H. Bower—Winston (Wiley), 1973, 524 p., illus., \$14.95. Integrates and explains in detail recent research findings in sentence memory, language comprehension, long-term memory, verbal learning, forgetting and imagery, and current developments in linguistics.

INTRODUCTION TO BACTERIA AND THEIR ECOBIOLOGY—R. N. Doetsch and T. M. Cook—Univ Park, 1973, 371 p., photographs, drawings, \$12.50. Providing a brief survey of bacterial forms and structures, the study places main emphasis on activities of living bacteria in their environment, and important interrelations within it.

INTRODUCTION TO OPTIMIZATION THEORY—Byron S. Gottfried and Joel Weisman—P-H, 1973, 571 p., diagrams, tables, \$18.95. Comprehensive, in-depth coverage of all major classes of optimization techniques, ranges from discussion of optimization fundamentals to dealing with optimization under uncertainty and risk.

THE MAJOR ACHIEVEMENTS OF SCIENCE—A. E. E. McKenzie—S&S, 1973, 575 p., photographs, diagrams, paper, \$4.95. Summarizes the development of science from ancient times to the present and presents selection of extracts from the classics of science arranged under corresponding chapter headings.

MANAGEMENT AND WORKER: The Japanese Solution—James C. Abegglen—Kodansha, 1973, 200 p., \$12. Examines the Japanese employment system at three points in time—1956, 1966 and 1972—presenting a major analysis of the most critical factors in Japan's unprecedented postwar economic growth.

MARINE ARCHAEOLOGY—D. J. Blackman, Ed.—Archon Bks, 1973, 522 p., photographs, drawings, maps, \$30. Contributions cover many aspects of underwater search, excavations and conservation of finds, mainly

connected with work carried out in Mediterranean and British waters, including survey of Cape Andreas, Cyprus, and the early Roman harbor, Cosa.

MODERN BOAT BUILDING—Edwin Monk—Scribner, 1973, rev. ed., 179 p., 155 photographs and drawings, \$12.50. Revised classic manual of sailboat and motor cruiser building materials and methods for the amateur boat builder.

NUTRITION, NATIONAL DEVELOPMENT AND PLANNING—Alan Berg, Nevin S. Scrimshaw and David L. Call, Eds.—MIT Pr, 1973, 414 p., diagrams, tables, \$10. Reports proceedings of 1971 conference, exploring the place of large-scale nutrition programs in planning for national development, particularly in developing countries and among low-income groups.

THE PHYSICAL PROPERTIES OF GLASS—D. G. Holloway—Springer-Verlag, 1973, 217 p., photographs, diagrams, paper, \$6.80. Attempts to give a simple account of the subject and to show how, or sometimes how far, the properties of glasses can be understood using models to represent the behavior of the constituent atoms.

PROBABILITY—Donald J. Koosis—Wiley, 1973, 163 p., diagrams, paper, \$2.95. Programmed instruction to teach yourself the basic concepts and skills of probability, includes practice problems and self-tests at the end of each chapter.

RIVERS IN THE CITY—Roy Mann—Praeger, 1973, 256 p., photographs, maps, \$20. Surveys urban river development, from medieval times to the present, in Italy, France, Switzerland, England, Germany, the Netherlands, and the United States.

THE SCIENTIFIC COMMUNITY—Sir James Taylor—Oxford U Pr, 1973, 79 p., paper, \$3.50. Traces the growth of science from ancient heritage through the industrial revolution and the Royal Society to the scientific institutions of today.

SIMPLIFIED TV TROUBLE DIAGNOSIS—Robert Goodman—TAB Bks, 1973, 319 p., illus., \$8.95; paper, \$5.95. A guide designed to speed up troubleshooting and repair of modern color sets, with schematic/flow chart foldout section.

STEREO/QUAD HI-FI PRINCIPLES AND PROJECTS—Ken W. Sessions, Jr.—TAB Bks, 1973, 191 p., photographs, diagrams, \$7.95; paper, \$4.95. Handbook on stereo and quadraphonic sound systems for the audiophile who likes to experiment with new designs and build his own equipment.

A STUDY OF BIRD SONG—Edward A. Armstrong—Dover, 1973, 2nd ed., 343 p., photographs, drawings, paper, \$4. Revised and enlarged version of work originally published in 1963, incorporates relevant new data gained by recording bird vocalizations with advanced electronic instruments.

TO LIVE AND TO DIE: When, Why and How—Robert H. Williams, Ed.—Springer-Verlag, 1973, 346 p., \$12.95. Presents professional thinking, on concepts and patterns for living and death, including guides for laws and medical ethics.

UNDERSTANDING TECHNOLOGY—Charles Susskind—Johns Hopkins Pr, 1973, 163 p., illus., \$6.95. Seeks to provide an overview of the development of modern technology and of its main social and economic consequences.

WANDERING LANDS AND ANIMALS—Edwin H. Colbert—Dutton, 1973, 323 p., photographs, drawings, maps, \$12.50. Recreates as seen through the eyes of a vertebrate paleontologist the whole concept of continental drift, Pangaea, Laurasia and Gondwanaland, and, starting with his recent dating of the *Lystrosaurus* bone in Antarctica, the author presents the whole panoply of land-living fossil vertebrates and their distribution.

TEXTBOOKS

CELL BIOLOGY IN MEDICINE—E. Edward Bittar, Ed.—Wiley-Interscience, 1973, 723 p., photographs, diagrams, \$34.95. Sets forth the fundamentals of cell biology as a continuous and consistent whole with special reference to the medical sciences. Useful for medical students, medical science researchers, and graduate students in biology and nursing.

DEVELOPMENTAL BIOLOGY: Its Cellular and Molecular Foundations—Maurice Sussman—P-H, 1973, 297 p., illus., \$12.95; paper, \$6.95. Surveys the developmental cycles of a wide selection of organisms from bacteria to humans and views these phenomena within the framework of modern cell biology and molecular genetics.

THE ENVIRONMENT AND ITS RESOURCES—Raul A. Deju and others—Gordon, 1973, 328 p., photographs, diagrams, \$19.50. Intended both as a sourcebook for managers and engineers, and as a text, the book covers land forms, water resources, the oceans, mineral resources, solid waste disposal and reuse, the atmosphere and its pollutants.

AN INTRODUCTION TO ECOLOGY AND POPULATION BIOLOGY—Thomas C. Emmel—Norton, 1973, 196 p., photographs, drawings, diagrams, \$6.95. Concise, elementary text on basic ecological processes.

AN INTRODUCTION TO INTERFEROMETRY—S. Tolansky—Wiley, 1973, 2nd ed., 253 p., photographs, diagrams, paper, \$9.15. Elementary introduction to optical interferometry, includes discussion of recent developments in interference microscopes, the principles of laser light, and typical applications of holography.

MECHANICAL RELIABILITY—A. D. S. Carter—Wiley, 1973, 146 p., diagrams, \$17.50. Introductory text deals with the fundamental aspects of reliability; the role of design, manufacturer and user in achieving reliability, random failures, and management aspects of reliability.

ORGANIC MOLECULES IN ACTION—Murray Goodman and Frank Morehouse—Gordon, 1973, 351 p., illus., \$14.50. Introductory chemistry text, well suited to give the educated layman insight into the origin of the cell, the giant molecules, molecules that relieve pain, kill germs, the steroids, vitamins, molecular structure and the language of organic chemistry.

THE PHYSICS OF ELEMENTARY PARTICLES—L. J. Tassie—Halsted Pr (Wiley), 1973, 255 p., diagrams, paper, \$10.50. Text emphasizes those parts of particle physics which are applications of principles shared or useful to other branches of physics. Appendices describe apparatus and techniques of experimental particle physics.

PRINCIPLES AND PRACTICE OF EXPERIMENTS WITH NUCLEIC ACIDS—John Howard Parish—Halsted Pr (Wiley), 1973, 511 p., diagrams, \$27.50. Written mainly for biologists, offers thorough grounding in nucleic acid methodology, includes necessary theoretical background, confining discussion of chemistry to areas relevant to procedures employed in present-day research.

SYMMETRY AND ENERGY BANDS IN CRYSTALS—John C. Slater—Dover, 1972, 563 p., diagrams, tables, paper, \$6. Text offers thorough grounding in the foundations of the field of symmetry and energy bands, includes complete descriptions of many types of crystal structure and treatment of space groups and the symmetry of wave foundations.

VISUAL AND AUDITORY PERCEPTION—Gerald M. Murch—Bobbs, 1973, 403 p., illus., paper, \$9. Text attempts to interrelate the classical, phenomenological approaches with the newer empirical approach. Instructor's manual is included.