

books OF THE WEEK

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ADVANCES IN AEROSOL PHYSICS, No. 2—V. A. Fedoseev, Ed.—IPST/Halsted (Wiley), 1972, 180 p., illus., \$15. Translation of Russian research papers in areas concerned with the physics of water aerosols, combustion of dispersive systems, and gas dynamics of aerosol systems.

AIR-COOLED AUTOMOTIVE ENGINES—Julius Mackerle—Halsted (Wiley), 1972, 2nd ed., 518 p., 433 illus., \$27.50. Reviewed and enlarged edition, deals with both principles and design, from the fundamentals of heat transfer and thermal balance to individual component design, fans and ducting, rotary piston engine, and the noise aspect of air-cooled engines.

THE AMERICAN ALMANAC 1973: The U.S. Book of Facts, Statistics and Information—The Statistical Abstract of the U.S. Bureau of the Census; introd. by Ben J. Wattenberg—G & D, 1972, 1017 p., diagrams, tables, paper, \$2.95. Up-to-date summary of statistics on the social, political and economic organization of the United States.

THE AMERICAN MEDICAL MACHINE—Senator Abraham Ribicoff with Paul Danaceau—Sat. Rev. Press, 1972, 222 p., \$6.95. Popularly written, patient-oriented critique of the U.S. medical care system, with discussion of suggested reforms in the delivery of medical care.

ANNUAL REVIEW OF THE SCHIZOPHRENIC SYNDROME, Vol. 2—Robert Cancro, Ed.—Brunner/Mazel, 1972, 514 p., diagrams, tables, \$17.50. Presents selected papers in such areas as attention, cognition and perception; psychophysiological, genetic and existential studies; family studies, prognosis, and therapy.

THE BIOLOGY OF A MARINE COPEPOD—S. M. Marshall and A. P. Orr—Springer-Verlag, 1972, 195 p., photographs, diagrams, \$12.10. Reprint of work first published in 1955, with appended list of papers on Calanus written since 1953.

COMMUNITY AND COMMUNICATIONS—Seymour J. Mandelbaum—Norton, 1972, 153 p., \$5.95. Concerned with the total communications system for America, both from the technological perspective and as a means of coping with new approaches to education, politics, integration and urban planning.

DEFENSIBLE SPACE: Crime Prevention Through Urban Design—Oscar Newman—Macmillan, 1972, 282 p., photographs, drawings, \$8.95. Based on a study of structures in residential areas and the factors contributing to victimization of occupants, the book suggests remedies for both new and existing housing developments.

DOWN AMONG THE WILD MEN: The Narrative Journal of Fifteen Years Pursuing the Old Stone Age Aborigines of Australia's Western Desert—John Greenway—Little, 1972, 362 p., photographs, map, \$12.50. A lively tale of adventuring into one of the most barren inhabited areas, getting to know the ways of the aborigines in the bush.

ELEMENTAL X-RAY ANALYSIS OF MATERIALS: EXAM Methods—John C. Russ; Charles J. Walsh, Ed.—EDAX International, 1972, 90 p., illus., \$5. Describes X-ray fluorescence analysis by energy dispersive techniques using X-ray tube excitation, and discusses mathematical models used to convert intensity to concentration.

ENCOUNTERS WITH ARCTIC ANIMALS—Fred Bruemmer—Am. Her. Press, 1972, 254 p., color plates, 200 photographs by author, \$14.95. Spectacularly illustrated record of living in the arctic wilderness among sea bird colonies, seals, polar bears, muskoxen, white fox, caribou, narwhals, shark and cod; shows how the animals live, hunt and sustain the Eskimos.

THE FALLACY OF UNDERSTANDING: An Inquiry into the Changing Structure of Psychoanalysis—Edgar A. Levenson—Basic Bks., 1972, 236 p., \$7.95. Shows historically how each changing psychoanalytic position grew out of its time and place, seeking new relevance through a restructured therapy.

FUNCTIONAL ANATOMY AND HISTOLOGY OF THE LUNG—Chuzo Nagaishi with others—Univ. Park, 1972, 295 p., micrographs, drawings, \$49.50. Written by thoracic surgeon, this comprehensive, fully illustrated treatise presents the macroanatomic and the finest structural component elements of the lung; discusses the vascular, the lymphatic and the nervous system in the lung, the muscular system and pulmonary pleura.

THE HIGH PRIESTS OF WASTE—A. Ernest Fitzgerald—Norton, 1972, 398 p., photographs, \$8.95. Detailed insider's account of the taxpayers' wasted investment in the Minuteman missile and the F-111 fighter plane, and the ways of Pentagon management in general.

HOW TO SOLVE SOLID-STATE CIRCUIT TROUBLES—Wayne Lemons—TAB Bks., 1972, 304 p., diagrams, \$8.95; paper, \$5.95. For the troubleshooter, contains 161 circuit descriptions and step-by-step procedures for maintaining solid-state entertainment equipment.

LAWS OF FORM—G. Spencer Brown—Julian Press, 1972, 166 p., \$9. Elegant treatment of a new calculus, from its conception, through 18 rigorously proved theorems, to interpreting the calculus for logic.

THE LIFE OF SHARKS—Paul Budker, rev. and transl. from French by Peter J. Whitehead—Columbia U. Press, 1972, 240 p., plates, drawings, paper, \$3.95. A readable, scientific study of the biology of sharks, including man-eaters, fresh-water sharks, fisheries and utilization of sharks.

METRICS: Measurement for Tomorrow—Helmer A. Ronningen—Collier Bks., 1972, 96 p., illus., paper, \$1.50. Concise guide for quick, accurate conversion from U.S. to metric and metric to U.S. for measuring area, energy, length, temperature, pressure, volume, weight, pipe connections and clothing.

THE MINERALS OF FRANKLIN AND STERLING HILL: A Check List—Clifford Frondel—Wiley, 1972, 94 p., 33 photographs, \$9.95. Concise and authoritative book, describes the unique ore deposits in New Jersey, where for 200 years the mines at these famous sites have yielded minerals of remarkable diversity and quality.

THE NATURAL LANDSCAPES OF CANADA: A Study in Regional Earth Science—J. Brian Bird; introd. by F. K. Hare—Wiley, 1972, 207 p., photographs, diagrams, maps, paper, \$4.95. Describes Canada's major landforms in terms of both the underlying geology and contemporary views of their geomorphological evolution, with main emphasis on events during the final million years.

OF TIME, TIDES AND INNER CLOCKS: Taking Advantage of the Natural Rhythms of Life—Henry Still—Stackpole, 1972, 223 p., charts, \$8.50. Summarizes what has become known about the natural rhythms of various forms of life, and explores ways for man to live in tune with his inner clock.

OUR TOOL-MAKING SOCIETY—Irene Taviss—P-H, 1972, 145 p., \$5.95; paper, \$5.95. Essays provide an overview of the

issues and controversies developing out of the direct and indirect relationships of technological advance and the quality of life.

THE PENGUIN DICTIONARY OF SCIENCE—E. B. Uvarov and D. R. Chapman, rev. by Alan Isaacs—Schocken, 1972, 4th ed., 443 p., diagrams, tables, \$11.95. Concerned primarily with scientific terms, as opposed to technological, all quantitative information is expressed in SI units while tables in appendix give conversions to commonly used c.g.s. and f.p.s. units.

PETS AND HUMAN DEVELOPMENT—Boris M. Levinson—C. C. Thomas, 1972, 235 p., \$10.50. Psychologist deals with the potential role of pets in helping to prevent or overcome the sense of alienation experienced by children, the aged and the bereaved. Also discusses pets in relation to caretaking and correctional institutions.

THE ROCKHOUND'S MANUAL—Gordon S. Fay—Harper, 1972, 290 p., color plates, photographs, drawings, tables, \$7.95. Written by geological engineer for the gem and mineral collector, tells hobbyist where to go and how to identify minerals, treats each of the major gem families, includes determinative tables and bibliography.

SCIENCE AND TECHNOLOGY IN ART TODAY—Jonathan Benthall—Praeger, 1972, 180 p., 95 photographs, \$8.95, paper, \$4.95. Treats the relationship between art and media, mainly photography, the computer, and laser holography; kinetic art, implications of ecology and linguistics, and science and art as a mode of inquiry.

SENSORY CODING in the Mammalian Nervous System—George Somjen—Appleton, 1972, 386 p., illus. \$18.95. Text first deals with the manner of representation of sensory information in peripheral nerves—the first-order code, then deals with the handling of sense data by the central nervous system. Literature survey covers period from 1801 to 1971.

THE SOCIAL PSYCHOLOGY OF WORK—Michael Argyle—Taplinger, 1972, 291 p., diagrams, \$8.50. Presents research on almost every aspect of employment, social behavior at work, comparison of alternative contemporary forms of work organization, and examines current theories of motivation and leadership in the light of empirical evidence.

SOUND, STRUCTURES AND THEIR INTERACTION—Miguel C. Junger and David Feit—M.I.T. Press, 1972, 470 p., diagrams, \$27.50. Monograph intended for the graduate engineer and applied physicist, differs from common texts in acoustics in that chapters on structural vibrations include elastic shells as well as plates, and analytical formulations required for high-frequency excitations.

STRONG MATERIALS—J. W. Martin—Springer-Verlag, 1972, 120 p., photographs, diagrams, paper, \$5.80. Develops an understanding of the strength of materials from a study of their structure. Deals with bonding, cracks and dislocations, strong metals and alloys, strength at high temperatures, and composite materials.

THE THREAD OF ARIADNE: The Labyrinth of the Calendar of Minos—Charles F. Herberger—Philos Lib, 1972, 158 p., 43 plates, \$12. Presents the author's decipherment and interpretation of a solar-lunar ritual calendar in the Toreador Fresco from the Palace of Minos at Knossos in Crete.

THE URBAN WILDERNESS: A History of the American City—Sam Bass Warner, Jr.—Harper, 1972, 315 p., 116 photographs, maps, \$12.50. A social historian looks at the American past for present purposes, from planning of early New England towns to the development of the modern automobile metropolis, it analyzes urban traditions and the present outlook.