

books OF THE WEEK

BRITANNICA YEARBOOK OF SCIENCE AND THE FUTURE 1971—Richard G. Young, Ed.—Ency. Brit. Inc., 448 p., photographs, diagrams in color, \$12.50. Besides pictorial essays on such topics as the heart pump, insecticides and volcanic eruption, feature articles on developments in cryogenics, Buckminster Fuller's geodesics, and social anthropology, the science events of the past year are reviewed in each field of science.

CURIOUS WAYS OF COMMON BIRDS—Robert H. Wright—Lothrop, 1971, 128 p., photographs by author, \$4.95. Close-up views of North American nesting birds and their young.

OCEAN LIFE IN COLOR—Norman B. Marshall—Macmillan, 1971, 214 p., illus. by Olga Marshall, map, \$4.95. Pocket encyclopedia, describes the physical nature of the oceans, outlines different patterns of marine life, and catalogues the various genera of life forms to match the 290 illustrations of particular species.

THE PERICARDIUM AND ITS DISORDERS—Felix M. Cortes, Ed., introd. by Thomas M. Durant—Thomas, C. C., 1971, 298 p., photographs, illus., \$15.50. Monograph reviews the field, offers practical information on diseases of the pericardium, their diagnosis and treatment. Thoroughly treated are the newer diagnostic techniques.

PICTURE PROCESSING AND PSYCHOPICTORICS—Bernice Sacks Lipkin and Azriel Rosenfeld, Eds.—Academic Press, 1970, 526 p., photographs, illus., \$14.50. Collection of

papers on pictorial pattern perception and processing, discussing the variables that influence detection of objects in complex images, and the computer techniques for manipulating these factors.

PLANT DISEASE HANDBOOK—Cynthia Westcott—Van Nostrand, 1971, 3rd ed., 843 p., illus., \$20. Reference book for serious gardeners and professionals, helps diagnose and control more than 2100 diseases, discusses more than 1100 host plants, including trees, shrubs, vines, lawn grasses, flowers and vegetables.

THE PNEUMATICS OF HERO OF ALEXANDRIA: A Facsimile of the 1851 Woodcroft Edition—Introd. by Marie Boas Hall—Am. Elsevier Pub. Co., 1971, 141 p., illus., \$10.25. Translation of an early Greek technological work, describing such constructions as a "steam boiler from which either a hot blast may be driven into the fire, a blackbird made to sing, or a triton to blow a horn."

THE POLAR IONOSPHERE AND MAGNETOSPHERIC PROCESSES—Gunnar Skovli, Ed.—Gordon & Breach, 1970, 343 p., illus., \$19.50. Review papers presented at 1969 NATO Advanced Study Institute, topics range from particle observations in the geomagnetic tail, to optical emission over the polar cap.

PROBLEMS IN ANALYSIS: A Symposium in Honor of Salomon Bochner—Robert C. Gunning, Ed. Princeton Univ. Press, 1971, 351 p., illus., \$13.50. Lectures and papers on such topics as a class of positive-definite functions, Eisenstein series on tube domains, group algebra bundles, and automorphisms of commutative Banach algebras.

SCIENCE AND THE CRISIS IN SOCIETY—Frank H. George—Wiley-Interscience, 1971, 168 p., vinyl cover, \$4.95. Well versed in cybernetics, the author addresses himself to the role of science and technology in creating and coping with the problems of modern society.

SHAPE OF COMMUNITY: Realization of Human Potential—Serge Chermayeff and Alexander Tzonis—Penguin Bks., 1971, 247 p., paper, \$2.95. Architects explore the shape of the present urban environment and some of its recent developments, suggest re-thinking for better solutions, such as the public concourse and free movement systems between community facilities.

SPACE FRONTIER—Wernher von Braun—Holt, 1971, 307 p. rev. ed., photographs, illus., \$6.95. Updated articles on developments in space exploration, written by insider for the layman.

STRUCTURAL LANDFORMS: Landforms Associated with Granitic Rocks, Faults and Folded Strata—C. R. Twidale—MIT Press, 1971, 247 p., photographs, diagrams, maps, \$8.50. Deals systematically with the geomorphology of joints and boulders, the characteristics and origin of inselbergs, and landforms associated with faults and folded sequences.

SURVEY OF THE UNIVERSE—Donald H. Menzel, Fred L. Whipple and Gerard De Vaucouleurs—Prentice-Hall, 1971, 860 p., photographs, diagrams, \$16.50. Concise and authoritative overview of the rapidly expanding knowledge of the physical universe, presented by three leading astronomers. Includes up-to-date coverage of recent developments in space astronomy, exobiology, nucleogenesis and extragalactic astronomy.

THIS ENDANGERED PLANET: Prospects and Proposals for Human Survival—Richard A. Falk—Random House, 1971, 495 p., charts, \$8.95. Written to encourage awareness and induce action within the political framework, the book presents a thorough analysis of the underlying causes and the dimensions of the threats to our natural, human and social environment.

VOLCANOES IN THE SEA: The Geology of Hawaii—Gordon A. Macdonald and Agatin T. Abbott—Univ. of Hawaii Press, 1970, 441 p., photographs, drawings, maps, \$15. Complete treatment of the geological processes that have formed, and are still forming, the Hawaiian island chain. Written in non-technical language, coverage is detailed and up-to-date.

WANDERINGS OF A BIOCHEMIST—Fritz Lipman—Wiley-Interscience, 1971, 229 p., photographs, diagrams, \$8.95. Autobiography of Nobelist (1953), tells about the setbacks and successes in the pursuit of understanding the molecular technology of living organisms, with essays chosen to show how conceptual innovations are distilled from experimental work.

THE WAVES: The Nature of Sea Motion—George M. Hidy—Van Nostrand Reinhold, 1971, 150 p., illus., \$7; paper, \$3.95. Describes and analyzes the movements and behavior of the ocean, and discusses the underlying principles and dynamics of fluid mechanics.

YIWARA: Foragers of the Australian Desert—Richard A. Gould—Scribner, 1971, 239 p., photographs by author, drawings, paper, \$2.65. Reprint (1969). A study of the nomadic life of individual Gibson Desert Aborigines, their ways of survival and their desert rituals.

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