

books OF THE WEEK

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LIQUID CRYSTAL DEVICES—Thomas Kallard, Ed.—Optosonic Pr, 1973, 390 p., 450 illus., paper, \$15. Discusses new liquid crystal applications, and gives detailed description of some 150 U.S. and foreign patents. Bibliography contains about 1100 entries from world-wide sources.

THE LURE OF SUNKEN TREASURE: Under the Sea With Marine Archaeologists and Treasure Hunters—Robert F. Marx—McKay, 1973, 158 p., color plates, photographs, \$9.95. Vivid text, abundantly illustrated, describes the underwater work and discovery of artifacts at such varied sites as the sacred cenote in Yucatan, the sunken city of Port Royal, Jamaica, and the raising of the *Vasa*, sunk in Stockholm Harbor in 1628.

MAINE PARADISE: Mount Desert Island and Acadia National Park—Russell D. Butcher, preface by Carl W. Buchheister—Viking Pr, 1973, 96 p., drawings by Marie Ivey Menzietti, 55 color photographs by author and artist, map, \$10.95. Handsome and informative introduction to the most easterly national park area, its flora and fauna through the cycle of the seasons.

MAN'S FUTURE BIRTHRIGHT: Essays on Science and Humanity—H. J. Muller, edited by Elof Axel Carlson; introd. by Bentley Glass—State U of NY Pr, 1973, 164 p., photograph, \$6.95; paper, \$3.95. Essays reflect Muller's profound concern about human

evolution, topics include discussion of life forms elsewhere, the meaning of freedom, radiation danger, social biology and population improvement.

METRIC SYSTEM SIMPLIFIED—Gerald W. Kelly—Sterling, 1973, 80 p., illus., \$2.95. Ready-reference conversion tables and explanations with practical examples for the non-mathematically inclined reader.

MINING AND MINERALS POLICY 1973: Second Annual Report of the Secretary of the Interior under the Mining and Minerals Policy Act of 1970—Rogers C. B. Morton, Sec.—GPO, 1973, 73 p., illus., paper, \$1.25; part 2 (Appendices), 583 p., tables, paper, \$5.30.

OIL POLLUTION AS AN INTERNATIONAL PROBLEM: A Study of Puget Sound and the Strait of Georgia—William M. Ross—U of Wash Pr, 1973, 279 p., \$12. Study examines the existing laws and agreements—state, provincial, national and international that have been designed to meet the various aspects of the oil spill threat in the study area.

THE PSYCHOANALYTIC THEORY OF DEFENSIVE PROCESSES—Hans Sjöbäck—Wiley, 1973, 314 p., \$9.50. Psychologist's attempt to present in a systematic descriptive framework the various hypotheses of the psychoanalytic theory of defensive processes in a coherent form.

SCIENCE AND TECHNOLOGY IN ECONOMIC GROWTH: Proceedings of a Conference held by the International Economic Association at St Anton, Austria—B. R. Williams, Ed.—Wiley, 1973, 446 p., tables, \$19.50. Papers and discussions of worldwide problems and solutions in the application of science and technology in the development of individual countries.

SEEING AND THE EYE: An Introduction to Vision—G. Hugh Begbie—Doubleday/An-

chor Bk, 1973, 227 p., diagrams, \$2.95. About perception and how we interpret the physical world, how the eye works, how the nervous system and brain translate visual signals, and how we perceive form, motion and color.

SEPARATION: Anxiety and Anger (Attachment and Loss, Vol. II)—John Bowlby—Basic Bks, 1973, 444 p., \$12.50. Examines the potential role in the child's personality development and the effects of the child's separation from its mother. Deals with wide range of related phenomena, from prototypes of human sorrow to individual differences in susceptibility to fear.

STEREOCHEMISTRY AND MECHANISM—David Whittaker—Oxford U Pr, 1973, 96 p., illus., \$9; paper, \$4.95. Presentation emphasizes the central role of stereochemistry in the understanding of reaction mechanism, considers conformation in both cyclic and acyclic systems, addition and elimination reactions, and nucleophilic substitutions.

SURVIVE THE SAVAGE SEA—Dougal Robertson—Praeger, 1973, 269 p., photographs, drawings by Pam Littlewood, map, \$7.95. The extraordinary day-by-day story of a family of five afloat in the Pacific, 37 days in a rubber raft and dinghy, after killer whales attacked their schooner and sank it within 60 seconds.

THEMATIC ORIGINS OF SCIENTIFIC THOUGHT: Kepler to Einstein—Gerald Holton—Harvard U Pr, 1973, 495 p., illus., \$10; paper, \$3.95. By means of case studies, the author demonstrates that themata play a crucial role in the initiation and acceptance of individual scientific insights. Drawing on unpublished Einstein documents, the author examines the origins of relativity theory in depth.

WEDNESDAY NIGHT AT THE LAB: Antibiotics, Bioengineering, Contraceptives, Drugs and Ethics—Kenneth L. Rinehart, Jr., William O. McClure and Theodore L. Brown, Eds.—Har-Row, 1973, 226 p., illus., tables, paper, \$2.95. Thirteen research scientists from universities and industry attempt to answer in nontechnical language questions concerning the relevance of their fields of research to the problems of modern society.

TEXTBOOKS

ADVANCED FIRST AID AND EMERGENCY CARE—American National Red Cross—Doubleday, 1973, 318 p., 353 illus., \$3.95; paper, \$2.50. Textbook designed for use by persons who are responsible for giving emergency care to the sick and injured, deals with wounds, specific injuries, shock, respiratory emergencies, water accidents, poisoning, drug abuse, burns, bone injuries, and other emergencies.

BIOCHEMISTRY OF BACTERIAL GROWTH—Joel Mandelstam and Kenneth McQuillen, Eds.—Wiley, 1973, 2nd ed., 582 p., photographs, diagrams, tables, paper, \$19.95. Not intended to be a comprehensive textbook on the biochemistry of bacteria, rather an experiment in presenting the recent advances in biochemistry as a basis for describing bacterial life in biochemical terms.

BIOLOGY OF EARTHWORMS—C. A. Edwards and J. R. Lofty—Chapman & Hall (Halsted Pr), 1973, 283 p., photographs, diagrams, tables, \$8.75. Comprehensive reference text refers to species from all over the world. Includes simplified key to common genera, and substantial bibliography of literature references valuable to soil scientists.

ELECTRICITY AND MAGNETISM—W. J. Duffin—Wiley, 1973, 2nd ed., 423 p., diagrams, \$12.75. Text tries to show clearly the experimental bases, development of concepts, and formulation of general laws.

LABORATORY TECHNIQUES IN FOOD ANALYSIS—D. Pearson—Halsted, 1973, 315 p., diagrams, \$21.50. An introduction to basic laboratory techniques of food analysis for the student and practicing food technologist.

Advice to youth on 1974 Science Fairs:

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