

books OF THE WEEK

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DISPOSAL OF PLASTICS WITH MINIMUM ENVIRONMENTAL IMPACT—American Society for Testing and Materials; H. W. MacKinney, Symp. Chmn.—ASTM, 1973, 62 p., photographs, diagrams, tables, paper, \$4.25. Symposium papers on the recycling, degradability and incineration of plastics, and feasibility study of use of old telephone plastics.

DYNAMICS OF IONIZED GASES—M. J. Lighthill, I. Imai and H. Sato, Eds.—Wiley, 1973, 547 p., photographs, diagrams, \$27.50. Symposium papers range from theoretical treatment of collision-free shock waves to work in quasi-steady plasma acceleration, emphasis throughout is on motion of ionized gas rather than on the physical nature of ionized gas at rest.

FOUR-CHANNEL SOUND—Leonard Feldman—Sams, 1973, 144 p., photographs, diagrams, paper, \$4.50. Explains how four-channel sound operates and the reasons for using it, discusses matrix techniques and discrete four-channel discs, and how to select equipment.

GEOHERMAL ENERGY: Resources, Production, Stimulation—Paul Kruger and Carel Otte, Eds.—Stanford P Pr, 1973, 360 p., photographs, drawings, maps, \$17.50. Provides an overview of worldwide status of geothermal resources development, its characteristics and

exploration; design and operation of plants; explosive, chemical and nuclear stimulation, and its environmental impact.

A GUIDE TO THE NATIONAL PARKS: Their Landscape and Geology—William H. Matthews III; foreword by Paul Tilden—Doubleday/Nat. Hist. Pr, 1973, 529 p., photographs, drawings, maps, paper, \$5.95. Provides geological reasons for the natural beauty of each of the national parks and describes wildlife, climate and history as well. Includes practical information for visitors.

LIGHT EMITTING DIODES—Forrest M. Mims, III—Sams, 1973, 160 p., photographs, diagrams, paper, \$4.50. Starting with the theory of semiconductor emission and details of physical construction, the book discusses infrared and visible LEDs, and applications as display devices.

LIGHTNING PROTECTION—J. L. Marshall—Wiley-Interscience, 1973, 190 p., photographs, diagrams, \$14.95. Comprehensive treatment, brings together technical information on the nature, effects and principles of lightning protection, as well as protection systems.

MARINE MAMMALS AND MAN: The Navy's Porpoises and Sea Lions—Forrest G. Wood—Luce, 1973, 264 p., photographs, \$7.95. Marine scientist's non-technical account of the Navy's research program with marine mammals, observations of their habits and intelligence, their conditioning and training to perform rescue, deep-dive and sonar experiments.

MITOCHONDRIA: Selected Papers in Biochemistry, Vol. 10—Sitiro Sato, Ed.—Univ Park Pr, 1973, 327 p., photographs, diagrams, \$12.50. Contains the full text, including original illustrations, of the seminal papers in the field of oxidative phosphorylation, edited for advanced students and research workers.

TEXTBOOKS

CRYOELECTRONICS—W. P. Jolly—Halsted Pr (Wiley), 1973, 88 p., diagrams, \$7.95. Concise treatment of the whole range of cryoelectronics which includes low temperature effects of conductors, insulators and semiconductors, superconduction in machines, magnets and cables, microwave effects, cryotrons and memories.

THE EARTH: An Introduction to the Geological and Geophysical Sciences—A. Lee McAlester—P-H, 1973, 534 p., photographs, diagrams, \$12.95. Text abbreviates treatment of certain traditional descriptive detail in order to introduce student to such active subdisciplines as solid earth geophysics, aeronomy, sedimentology and geochemistry.

ENZYME MECHANISM: Selected Papers in Biochemistry, Vol. 11—Osamu Hayaishi, Ed.—Univ Park, 1973, 223 p., illus., \$12.50. Volume gives a broad survey from early basic developments to recent developments and discoveries, edited to serve as a useful text for students and research workers.

THE INTEGUMENT: A Textbook of Skin Biology—R. I. C. Spearman—Cambridge U Pr, 1973, 208 p., plates, drawings, \$12.95. Provides in concise form a comparative account of the skin in both invertebrates and vertebrates.

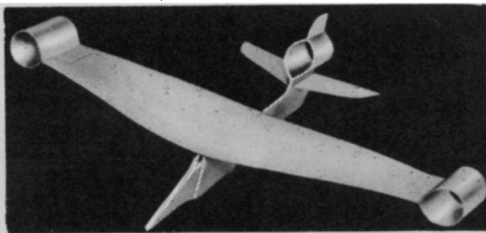
INTRODUCTION TO CONCEPTS AND THEORIES IN PHYSICAL SCIENCE—Gerald Holton, rev. with new material by Stephen G. Brush—Addison-Wesley, 1973, 2nd ed., 589 p., illus., tables, \$13.95. Originally published in 1952, a landmark in presenting science as a creative human activity, the popular text has been updated to take account of recent discoveries in physical science and current historical studies.

AN INTRODUCTION TO CORROSION AND PROTECTION OF METALS—Gösta Wranglén—Halsted Pr, 1973, 287 p., photographs, diagrams, \$9. A brief outline of corrosion science and engineering for introductory course to engineering students.

N.M.R. AND CHEMISTRY: An Introduction to Nuclear Magnetic Resonance Spectroscopy—J. W. Akitt—Chapman & Hall (Halsted Pr), 1973, 182 p., diagrams, paper, \$5.95. Designed to provide students with a broad background of the subject, prior to specialization.

PLASMA ENGINEERING—M. Ali Kettani and Max F. Hoyaux—Wiley, 1973, 444 p., diagrams, \$38.50. Text covers applied plasma physics from basic theory of behavior of ionized gases to treatment of each separate field of plasma application, from MHD to astrophysics.

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