

Books of the Week

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ALCOHOLISM—Neil Kessel and Henry Walton—Penguin Bks., 192 p., paper, 95¢. Discusses physical, psychological and social factors that distinguish the excessive from the social drinker, the alcoholic's family and treatment of alcoholism.

THE ATMOSPHERE IN ACTION—I. J. W. Potchecary—St. Martin's Press, 111 p., illus., \$3.95. An up-to-date discussion of the various physical factors that affect the weather, featuring westerlies, local British weather, weather observations and services.

ATMOSPHERIC OXIDATION AND ANTIOXIDANTS—Gerald Scott—Elsevier Pub. Co. (N.Y.), 528 p., diagrams, \$26. Thorough treatment with emphasis on the fundamental mechanisms of antioxidant action in simple systems with special reference to modern theories of autoxidation.

BIRTH CONTROL IN THE MODERN WORLD: The Role of the Individual in Population Control—Elizabeth Draper—Penguin Bks., 333 p., paper, \$1.25. Discusses the physical, psychological, religious, social, economic and legal aspects of population control, and explains the different methods and effectiveness of contraceptive devices.

COLLECTION OF PROBLEMS IN THEORETICAL MECHANICS—I. V. Meshchersky—Dover, 302 p., diagrams, paper, \$1.50. An abridged translation of the 28th Russian edition (1962).

DISQUISITIONES ARITHMETICAE—Carl Friedrich Gauss, transl. by Arthur A. Clarke—Yale Univ. Press, 472 p., \$12.50; paper, \$2.95. Translation made from second edition (1870) of the standard work on the theory of numbers, first published in 1801 in Latin.

DYSHORMONAL TUMORS: The Theory of Prophylaxis and Treatment—Nikolai Ivanovich Lazarev, transl. from Russian by Basil Haigh—Consultants, 136 p., illus., paper, \$17.50. Studies on the role of hormones in the development of tumors, on the theoretical basis of prophylaxis and the hormone therapy of dys hormonal tumors.

ELECTRICAL RESISTANCE OF METALS—George Terence Meaden—Plenum Press, 218 p., diagrams, \$11.50. An account of the experimental behavior, theory, uses and measurement of the electrical resistivity of metals, with emphasis on cryogenics.

ELECTRONS AT WORK—Bryan Morgan—St. Martin's Press, 103 p., photographs, diagrams, \$3.95. Shows how the electron reached its present importance in radio communication, television, radar, computers and oscillators.

EVEREST: The West Ridge—Thomas F. Hornbein, introd. by William E. Siri; David Brower, Ed.—Sierra Club, 200 p., color photographs by Norman G. Dyhrenfurth and others, \$25. Magnificently illustrated exhibit-format volume, tells the story of the approach, the people and the environment during the ascent of the West Ridge by the American Everest Expedition in 1963.

EXTRACTIVE METALLURGY: Principles and Application—W. H. Dennis—Philosophical Lib., 371 p., diagrams, \$15. Individual chapters deal with mineral dressing fuels and combustion, refractories, pyrometallurgy, hydrometallurgy, electrometallurgy, ingot casting and by-products.

EXTRATERRESTRIAL BIOLOGY—Richard S. Young—Holt, 119 p., illus., \$2.95; paper, \$1.60. Gives an account of the fundamental characteristics of life on earth and examines the evidence for life in space, describing experimental work done in this field.

FUNDAMENTALS OF ENGINEERING CYBERNETICS—E. A. Yakubaitis, transl. from Russian—I.P.S.T. (Clearinghouse), 242 p., diagrams, paper, \$6. Intended for engineers concerned with the automation of industry, transport and agriculture.

FUNDAMENTALS OF PHYTOMORPHOLOGY—A. D. J. Meeuse—Ronald Press, 231 p., illus., \$10. Essays applying new phytomorphological concepts to the Angiosperms, thus providing a different approach to morphological and taxonomic problems.

FUTURE PERFECT: American Science Fiction of the Nineteenth Century—H. Bruce Franklin—Oxford Univ. Press, 401 p., \$6.50. Explores in a scholarly fashion, among other aspects, the relationships between science fiction and other forms of imaginative activity, such as science and utopianism.

GEOLOGY OF THE HIMALAYAS—Augusto Gansser—Interscience, 289 p., 95 photographs, profile sketches by author, folded maps, \$35. An up-to-date treatment of the regional setting of the Himalayas, with detailed structural description of geographically framed sections such as the Salt Range, the Punjab, Kumoan, Nepal, Sikkim-Bhutan and NEFA Himalayas.

HANDBOOK OF GEOPHYSICS AND SPACE ENVIRONMENTS—Shea L. Valley, Ed.—McGraw, 683 p., illus., \$24.50. Comprehensive collection of the data, known laws, definitions, theories and hypotheses relating to subjects ranging from gravity, the geomagnetic field and earth's atmosphere to astrophysics and astronomy.

INFORMATION PLEASE ALMANAC, Atlas and Yearbook 1966—Dan Golenpaul Associates—Simon & Schuster, 20th ed., 928 p., illus., paper, \$1.60. Special features include U.S. foreign policy review and medicare explained and analyzed.

LOW TEMPERATURE PHYSICS LT9, Parts A and B—J. G. Daunt and others, Eds.—Plenum Press, 620 p., 635 p., illus., \$19.50 each; \$35 per set. Part A presents papers on superfluidity, superconductors and liquid helium, quantum liquids, helium and superconductivity. Part B treats low temperature transitions, Fermi surfaces, magnetism, dilute alloys, and liquid and gaseous hydrogen.

MACHINE TOOL AND PRODUCTION TRENDS—Melvin E. Fields and others—Pennsylvania State Univ. (Engineering Publications), 261 p., illus., paper, \$10. Papers presented at the Engineering Seminar on New Industrial Technologies, June 1965.

MARINER-VENUS 1962: Final Project Report—Jet Propulsion Laboratory, California Institute of Technology, W. H. Pickering, Dir.—NASA (GPO), 344 p., illus., paper, \$2.50. Report on system and orbit, the Mariner II sub-missions, with summary of scientific results of this first U.S. operating interplanetary spacecraft.

THE METEOROID ENVIRONMENT AND ITS EFFECTS ON MATERIALS AND EQUIPMENT—William A. Cosby and Robert G. Lyle—NASA (GPO), 115 p., diagrams, paper, 50¢. Summary of a literature survey since late 1960.

METEOROLOGICAL SATELLITES—William K. Widger, Jr.—Holt, 280 p., illus., \$2.95; paper, \$1.60. Explains what weather satellites do, how they do it, why they are necessary and how their observations are recorded and used.

METHODS OF MICROANALYSIS, Vol. II: Wet Combustion and Catalytic Methods in Microanalysis—Alexander Petrovich Tuerent'ev and Jiri Korbl, transl. by Kurt Gingold; J. A. Kuck, Ed.—Gordon & Breach, 412 p., diagrams, \$21. Selected translations of significant articles that appeared in recent Russian and Czech research journals.

A MONOGRAPH OF LEMNACEAE—Edwin Horace Daubs—Univ. of Ill. Press, 118 p., illus., \$4.50; paper, \$3.50. Systematic treatment of the aquatic family Lemnaceae, represented in the world by 28 species and one variety.

MONT BLANC: An Anthology—Claire Eliane Engel—Rand McNally, 232 p., illus., \$7.95. Excerpts, letters, essays and poems, arranged in chronological order, describing mountaineering experiences.

PRINCIPLES OF SCHOOL HEALTH—Jack Smolensky and L. Richard Bonvehio—Heath, 342 p., illus., \$6.10. Provides future teachers with an up-to-date approach to the major aspects of health in the nation's schools, from discussion of child growth factors to legal aspects of school health.

THE ROLE OF PSYCHIATRY IN MEDICAL EDUCATION: An Appraisal and a Forecast—Sidney L. Werkman—Harvard Univ. Press, 187 p., \$4.75. A report evaluating the experiences and teaching experiments of the last decade and suggesting new approaches to psychiatric teaching in medical schools.

SCIENCE TEASERS—Rose Wyler and Eva-Lee Baird—Harper, 106 p., illus. by Jerry Robinson, \$2.95. More than a hundred tricks for young readers, with scientific explanations why they work.

SIMPLIFIED HYDRAULICS—L. S. McNickle, Jr.—McGraw, 196 p., illus., \$10. Aims at a simple explanation of the construction features and operational functions of commonly used parts in an industrial hydraulic system.

SKIN-FREEZE CASTING—G. F. Balandin, transl. from Russian—Israel Program for Scientific Transl. (Davey, N.Y.), 234 p., illus., \$11.50. Deals with the results of investigations on skin-freezing casting processes.

SPRING COMES TO THE OCEAN—Jean Craighead George—Crowell, 109 p., illus. by John Wilson, \$3.50. Follows the activity of sea creatures after the winter solstice.

STABILITY AND OSCILLATIONS OF ELASTIC SYSTEMS: Paradoxes, Fallacies and New Concepts—Yakov Gilelevich Panovko and Iskra Ivanovna Gubanova, foreword by W. Fluegge, transl. from Russian by Chas. V. Larrick—Consultants, 291 p., illus., \$17.50. Devoted to selected topics in the theory of the stability and the theory of the oscillations of elastic and incompletely elastic systems.

THE STORY OF NEWSPAPERS—Denis Thomas—Roy Publishers, 94 p., illus., \$3.95. Concise review of the development of British newspapers.

THEORY OF ELASTICITY—M. Filonenko-Borodich, transl. from Russian by M. Koanyeva; ed. by G. Ivanov-Mumjiev—Dover, 378 p., diagrams, paper, \$1.75. Unabridged reprint of first (1958) edition.

• Science News Letter, 89:124 February 19, 1966

Do You Know?

By law, only natives can own the *reindeer* in Alaska.

Studies show that high milk producing cows have a remarkable ability to draw energy from stored fat during production peaks and then replenish the fat when milk flow lessens.

• Science News Letter, 89:124 February 19, 1966

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