

Books of the Week

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ADVANCES IN CRYOGENIC ENGINEERING, Vol. 9: Proceedings of 1963 Conference—K. D. Timmerhaus, Ed.—Plenum Press, 580 p., illus., \$17.50. Contains papers on insulation and heat transfer, mechanical properties and seals, thermodynamics, fluid phenomena, superconductivity and cryopumping.

ALICE IN MANY TONGUES: The Translation of Alice in Wonderland—Warren Weaver—Univ. of Wis. Press, 147 p., illus., \$4.75. Examines the translation history of one of the most quoted books for children and adults, evaluates a wide variety of translations and offers complete checklist.

ALICYCLIC COMPOUNDS—Douglas Lloyd—Am. Elsevier Pub. Co., 171 p., diagrams, \$6.50. Textbook aimed at the advanced undergraduate student or the nonspecialist postgraduate.

AMERICANS ON EVEREST: The Official Account of the Ascent Led by Norman G. Dyhrenfurth—James Ramsey Ullman—Lippincott, 429 p., photographs, \$8.95. Describes the first successful American mountain-climbing expedition which reached the top of the world's highest peak in 1963.

THE ANALYTICAL ENGINE: Computers—Past, Present and Future—Jeremy Bernstein—Random House, 113 p., \$2.95. Nontechnical and concise introduction to a complex subject, written for the intelligent general reader.

CONTINUITIES IN CULTURAL EVOLUTION—Margaret Mead—Yale Univ. Press, 471 p., photographs, \$8.50. Latest volume of the Terry Lectures, illuminates the problems of moving toward conscious cultural evolution by applying to contemporary society anthropological insights gained from observations of primitive peoples.

DRUGS IN OUR SOCIETY—Paul Talalay, Ed., asst'd by Jane H. Murnighan—Johns Hopkins Press, 311 p., \$6.50. Essays on the social and scientific problems of drug therapy, professional discussion of testing, manufacture, pricing, advertising and safe use of drugs today.

EARTHQUAKE COUNTRY—Robert Iacopi, foreword by Charles F. Richter—Lane Bk. Co., 192 p.,

photographs, diagrams, maps, \$5.95. A readable and factual treatment of the San Andreas Fault features, shows how, why and where earthquakes strike in California.

ELECTRICITY—Walter Shepherd—Day, 48 p., illus. by Bernard Blatch and Laszlo Acs, \$2.52. Introduction to the principles of electricity, for children.

ESSAYS 1958-1962 ON ATOMIC PHYSICS AND HUMAN KNOWLEDGE—Niels Bohr—Inter-science, 100 p., portrait, \$5. Posthumous collection of essays by the Nobelist, including the unfinished manuscript of the article "Light and Life Revisited."

FETAL AND INFANT LIVER FUNCTION AND STRUCTURE—Julian A. Sterling, Ed.—N. Y. Acad. of Sciences, Annals, Vol. 111, Art. 1, 557 p., illus., paper, \$7. Papers of recent research on the morphology, physiology, chemistry and pathology of the biliary system of infants.

A FIELD GUIDE TO THE MAMMALS: Field Marks of All Species Found North of the Mexican Boundary—William Henry Burt—Houghton, 2nd rev. ed., 284 p., maps by author, illus. by Richard Philip Grossenheider, \$4.95. Enables the user to identify quickly any North American mammal with the help of the renowned Peterson identification system.

THE GOLDEN BOOK ON WRITING—David Lambuth and others, foreword by Budd Schulberg—Viking Press, 81 p., \$3. Emphasis is on precision of expression in this little handbook dealing with sentence structure, choice of words, letter writing, punctuation and style.

HARDY GARDEN BULBS—Gertrude S. Wister—Dutton, 176 p., photographs, drawings by Eleanor A. Medford, \$4.50. Expert advice on bulbs which have proved dependable, with additional information for the experienced gardener.

IR: THEORY AND PRACTICE OF INFRARED SPECTROSCOPY—Herman A. Szymanski; chapter on instrumentation by Nelson L. Alpert—Plenum Press, 375 p., diagrams, \$15. Discusses in detail spectroscopic theory, such as fine-line structure of absorption bands, inversion doubling, group theory, Coriolis forces, as well as methods and techniques.

LAWNS AND GROUND COVERS—Sunset Edit. Staff, Joseph F. Williamson, Dir.—Lane Bk. Co., 112 p., photographs, paper, \$1.95. About choice of grasses, watering, grooming, with charts of vital statistics for different conditions and areas.

MADE IN THAILAND—Margaret Ayer—Knopf, 237 p., illus. by author, photographs, \$3.95. A portrait of Thai culture, its history, religion and geography.

MATRICES: Their Meaning and Manipulation—W. G. Bickley and R. S. H. G. Thompson—Van Nostrand, 168 p., \$4.25. Based on lectures given to third-year and postgraduate engineering students.

THE MECHANICS OF INHERITANCE—Franklin W. Stahl—Prentice-Hall, 171 p., illus., \$4.95; paper, \$2.95. First in the new series "Foundations of Modern Genetics," explains the basic phenomena of transmission genetics reflecting throughout the revolutionary advances based on the knowledge of the DNA molecule.

THE MEMOIRS OF ZEUS—Maurice Druon, transl. from French by Humphrey Hare—Scribner, 240 p., \$4.95. The story of Greek mythology as Zeus might tell it addressing himself to 20th century humans.

OPTICAL ACTIVITY AND CHEMICAL CONSTITUTION—Bawa Kartar Singh and O. N. Perti—Asia Pub. House (Taplinger), 149 p., paper, \$4.75. A historical and systematic account of the work on optical activity of organic compounds, with emphasis on work done in Indian laboratories.

OUR LIVING WORLD—Francis Jackson—Day, 48 p., illus. by Gaynor Chapman and Laszlo Acs, \$2.52. A simple outline for children of the various aspects of life, colorfully illustrated.

PAVLOVIAN CONDITIONING AND AMERICAN PSYCHIATRY: Symposium No. 9—Sigmund M. Lebensohn and others—Group for the Advancement of Psychiatry, 64 p., paper, \$1. Discussion of the contributions of conditioning principles to psychiatry.

PHYSICAL CHEMISTRY—E. A. Moelwyn-Hughes—Pergamon, 2nd rev. ed., 1,334 p., illus., \$12.50. Text and reference work of mathematical physical chemistry brought up to date.

POISONOUS PLANTS OF THE UNITED STATES AND CANADA—John M. Kingsbury—Prentice-Hall, 626 p., photographs, drawings, bibliography, \$13. Reference work covering 700 species of algae and fungi as well as higher plants, and the toxicology of plant poisoning in man and animals.

PSYCHOTHERAPY: The Purchase of Friendship—William Schofield—Prentice-Hall, 186 p., \$3.95; paper, \$1.95. A critique of modern psychiatric practices, stressing the need for the training of specialists in therapeutic conversation.

RADIOACTIVE METAL MOBILIZATION IN MEDICINE—Alexander Catsch, transl. from German by Bergene Kawin—Thomas, C. C., 170 p., illus., \$7.50. A thorough analysis of chelating agents and discussion of individual radiometals precedes presentation of human data and recommendations for treatment.

RECTIFIED LUNAR ATLAS: Supplement Number Two to the Photographic Lunar Atlas—E. A. Whitaker, G. P. Kuiper and others—Univ. of Ariz. Press, 15 x 19 inches, multipaged, photographs, diagrams, \$35. A record of the lunar surface based on the best available photographs, which have been removed onto a globe so as to remove the major effects of foreshortening toward the limb.

SCIENCE: Its Method and Outlook: A Selection from the Writings of Bacon, Descartes, Wells, Bronowski, Bernal and Russell—Aligarh Muslim University Directorate—Asia Pub. House (Taplinger), 85 p., \$4. Selection for general education reading materials.

SCIENCE AND EDUCATION—Thomas Huxley, introd. by Charles Winick—Philosophical Lib., 383 p., \$7.50. This selection of writings prepared for contemporary occasions a century ago shows how well clear logic and precise presentation can stand the test of time.

SOME ASPECTS OF MEDICAL GEOGRAPHY—L. Dudley Stamp—Oxford Univ. Press, 103 p., maps, \$3.40. On the cartographic treatment of climate and disease, the mapping of mortality and morbidity, and other developments.

STABILITY AND CHANGE IN HUMAN CHARACTERISTICS—Benjamin S. Bloom—Wiley, 237 p., \$7. Examines and interprets a mass of data from hundreds of longitudinal studies on the shaping of human beings from infancy to adulthood.

STUDIES IN MATHEMATICAL PSYCHOLOGY—R. C. Atkinson, Ed.—Stanford Univ. Press, 414 p., \$11.50. Presents the most recent developments in the analysis of mathematical models and their applications to psychological data, with emphasis on theoretically oriented work.

TEACHING YOUNG CHILDREN TO READ—Warren G. Cutts, Ed.—OE (GPO), 134 p., paper, 55¢. Proceedings of 1962 Conference, discussing past and present teaching practices, experimental programs and recent research on beginning reading instruction.

THEORY AND METHODS OF NUCLEAR REACTOR CALCULATIONS—G. I. Marchuk, Ed., transl. from Russian—Consultants, 199 p., paper, \$40. Collection of original work done in recent years on various aspects of the theories, primarily the neutron transport theory, and methods of designing nuclear reactors.

THESE FRAGILE OUTPOSTS: A Geological Look at Cape Cod, Martha's Vineyard and Nantucket—Barbara Blau Chamberlain—Nat. Hist. Press (Doubleday), 327 p., photographs, maps, \$6.95. The geological history made by the forces of sea and earth along the rocky shore of southeastern Massachusetts.

TRANSLATION OF SCIENTIFIC RUSSIAN—V. A. Pertzoff—Exposition-University Press, 147 p., \$5. Advice principally designed for those who lack time or inclination to master Russian grammar but need to translate works in their field of interest.

TWENTIETH CENTURY REPORTING AT ITS BEST—Bryce W. Rucker, foreword by Frank Luther Mott—Iowa State Univ. Press, 269 p., \$4.95. Cites many examples of what is considered good journalistic copy written under pressure of deadlines on many subjects, but not including science.

WATER METABOLISM IN PLANTS—Theodore T. Kozlowski—Harper, 227 p., illus., paper, \$3.95. This monograph deals with important aspects of water metabolism at the cellular and whole-plant level, such as plant water balance, absorption, water transport and loss, and effects of water deficits on plants.

• Science News Letter, 85:364 June 6, 1964

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