

books OF THE WEEK

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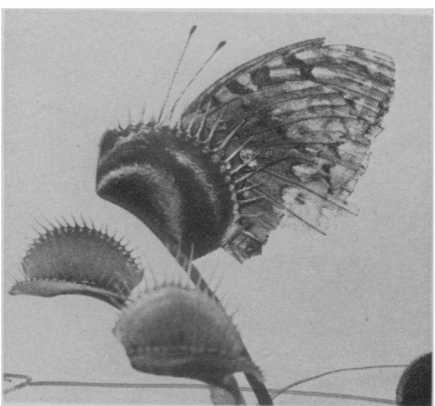
ANNUAL REVIEW OF NUCLEAR SCIENCE, Vol. 21—Emilio Segré, J. Robb Grover and H. Pierre Noyes, Eds.—Annual Reviews, 1971, 435 p., illus., \$10. Topics of review articles range from weak coupling structure of nuclei, three fragment fission, neutron radiography, to large scale radiation-induced chemical processing.

THE EXPANDING EARTH: Some Consequences of Dirac's Gravitation Hypothesis—Pascual Jordan, transl. from German and ed. by Arthur Beer—Pergamon Press, 1971, 202 p., illus., \$14. Treatise explores the geological evidence, the evidence of paleoclimatology and vulcanology, phenomena on the moon's surface, and the empirical discoveries of the rift system, in connection with Dirac's hypothesis.

THE GAMES CHILDREN PLAY—A. H. Chapman, M.D.—Putnam, 1972, 250 p., \$6.95. Clinical material from 25 years of psychiatric work with children, adolescents and parents, deals with unhealthy child-parent relationships that tend to become repeated patterns of behavior which erode intimacy and often destroy family life.

HANDBOOK OF COMMON POLYMERS: Fibres, Films, Plastics and Rubbers—W. J. Roff, J. R. Scott and J. Pacitti—CRC Press, 1971, 688 p., diagrams, tables, \$38.50. A source of technical information on all kinds of high polymers, both natural and man-made, lists in 42 sections data on individual polymers, and treats in separate section specific properties—structure, chemistry, general, thermal, electrical, and mechanical properties.

INTERPERSONAL PSYCHOTHERAPY—Arthur Burton—Prentice-Hall, 1972, 172 p., \$8.95. Psychotherapy finds expression in the ministrations of one feeling person to another. This book is written for the counselor as well as the psychotherapist, with emphasis on the phenomenology and quality of the therapeutic encounter.



SCIENCE STUDY SPECIAL CARNIVOROUS PLANTS

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MOON ROCKS AND MINERALS—Alfred A. Levinson and S. Ross Taylor—Pergamon Press, 1971, 222 p., color plates, photographs, diagrams, \$11.50. Scientific results of the study of the Apollo 11 lunar samples, with preliminary data on Apollo 12 samples. This report reduces the mass of material from 180 technical papers, and organizes it under the subject areas of mineralogy and petrology, chemical and isotope analyses, physical properties, and bioscience and organic geochemistry. Indexed.

PHOTOGRAPHY FOR THE SERIOUS AMATEUR—Eugen J. Skudrzyk—Barnes, A. S. 1972, 367 p., 18 color plates, photographs, diagrams, tables, \$12. A physicist by profession, the author presents his detailed and amply illustrated results of probings in his photographic workshop in search of better printing and enlarging, portrait lighting, nature photography, distortion control, resolution and sharpness, and testing the various properties of lenses.

THE PSYCHOLOGY OF COMPUTER PROGRAMMING—Gerald M. Weinberg—Van Nostrand Reinhold, 1971, 288 p., \$9.50. Deploring the present dearth of psychology applied to the human element in computer programming, the author stresses the need for studying such factors as the actual behavior and thought processes of programmers, better programming environments, and coordinating efforts of conflicting personalities.

RADIATION PROTECTION STANDARDS—Lauriston S. Taylor—CRC Press, 1971, 110 p., \$11.50. A "state-of-the-art" reference work, contains authoritative and comprehensive summary of current knowledge, organization, levels and effects, evaluation, policy activities and official publications.

THE RADIO UNIVERSE—J. S. Hey—Pergamon Press, 1971, 248 p., photographs, diagrams, \$7. Attempts to cover the whole field of radio astronomy including radar astronomy, subjects include moon and planets, meteors, the sun and interplanetary medium, supernovae, flare stars, our Galaxy, normal and radio galaxies, quasars and cosmology.

REACTIONS OF MOLECULES AT ELECTRODES—N. S. Hush, Ed.—Wiley-Interscience, 1971, 498 p., diagrams, \$24.50. Concerned with the study of processes occurring at metal, semiconductor or insulator electrodes, a topic with relevance to other branches of chemistry, such as the demonstrated value of electrochemical methods in preparative chemistry.

REPORT ON PLANET THREE AND OTHER SPECULATIONS—Arthur C. Clarke—Harper, 1972, 250 p., \$6.95. Collection of explorative and fancied articles on space and the universe by well-known science fiction writer.

REPRODUCTION AND ENVIRONMENT—R. L. Holmes—Norton, 1971, 96 p., photographs, drawings, paper, \$1.65. Compact study relates reproductive activity in animals, including man, to environmental conditions in both natural and artificial surroundings.

RORSCHACH HANDBOOK OF CLINICAL AND RESEARCH APPLICATIONS—Marvin R. Goldfried, George Stricker and Irving B. Weiner—Prentice-Hall, 1971, 436 p., tables, \$14.95. Presents and evaluates applications that make use of the Rorschach test to measure some specific potential or variable.

SEEING SOUND—Winston E. Kock—Wiley-Interscience, 1971, 93 p., illus., \$7.95. Concise treatment of advances in the visual representation of sound, describes how visual displays are made, views natural and man-made sound occurring in the oceans, sounds of speech and music, sounds of aircraft, and noise.

THE STUDY OF TWINS—Peter Mittler—Penguin Bks., 1971, 192 p., tables, paper, \$2.25. Examines what is meant by "the twin method" in psychology, evaluates its basic assumptions, and summarizes the main findings in regard to intelligence, personality, psychiatric disorders, and physical and biological aspects of development.

SYNTHETIC PEPTIDES, Vol. 2—George R. Pettit—Van Nostrand, 1971, 189 p., diagrams, tables, \$15.50. Reflects the wealth of original research in this field since early 1970. Summarizes the most recent advances, provides ready access to the experimental techniques of contemporary peptide chemistry, and contains selected experiments summarized in convenient tables for ready reference.

TEACHING SCIENCE WITH GARBAGE: An Interdisciplinary Approach to Environmental Education from the Points of View of Science, Mathematics and Social Studies—Albert Schatz and Vivian Schatz—Rodale Press, 1971, 60 p., illus., paper, \$1.50. Simple experiments emphasize microbial decomposition under controlled conditions, recycling of solid wastes, calculations and community statistics.

TECHNOLOGY FORECAST FOR 1980—Ernest Weber, Gordon K. Teal and A. George Schillinger—Van Nostrand Reinhold, 1971, 242 p., photographs, diagrams, \$13.50. A selected group of leaders in research and development express their individual insights and prognostications in their respective fields, from ceramic materials, through superconductivity, and new polymers to communications technology.

TELLURIUM—W. Charles Cooper, Ed.—Van Nostrand Reinhold, 1971, 437 p., photographs, diagrams, \$22.50. Covers in detail the extractive metallurgy of tellurium, the physical properties, inorganic chemistry, organic compounds, analytical chemistry and toxicology, and the principal application of tellurium, including recent developments in the solid state field.

THOUSANDS OF SCIENCE PROJECTS: Classified Titles of Exhibits Shown at Science Fairs and/or Produced as Projects for the Westinghouse Science Talent Search—Compiled by Science Service—Science Service, 1971, 69 p., illus., paper, \$1. Completely new listing of more than four thousand projects in categories ranging from cybernetics, astronomical instruments and topology through hydrodynamics, ultrasound, and plasma-physics to thermochemistry, ecology, sanitary engineering, electronics and psychology.

TREE AND SHRUB FORMS: Their Landscape Use—Clarence E. Lewis, Ed.—Brooklyn Botanic Garden, 1971, 65 p., photographs, drawings, paper, \$1.50. An idea book developed by landscape architects, tells how to plant trees and shrubs to bring out their best qualities and enhance the particular environment.

UNITS AND STANDARDS FOR ELECTROMAGNETISM—P. Vigoureux—Springer-Verlag N.Y., 1971, 80 p., illus., paper, \$4. Readable account, treats the units of length and time and of electromagnetism—the meter, second, kilogram, ampere, ohm and volt, comparison of standards, and fundamental constants.

WATER WASTELAND: Ralph Nader's Study Group Report on Water Pollution—David Zwick and Marcy Benstock—Grossman Pubs., 1971, 494 p., \$7.95. A systematic attempt to document the failure of Federal and State water pollution agencies to cope with the problem, includes case studies of local situations, examines the effectiveness of Federal Water Quality Standards, subsidies, sanctions, research, and makes recommendations.

WHO'S WHO OF BRITISH SCIENTISTS, 1971/72—John Grant, Ed.—Ohio Univ. Press, 1972, 1022 p., \$49. Biographical data of British scientists of distinction, mainly in the physical and biological sciences. Includes index to scientists classified by their specialties, and lists scientific societies, scientific journals and research establishments.