

Books of the Week

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ADVANCES IN CRYOGENIC ENGINEERING, Vol. 11: Proceedings 1965—K. D. Timmerhaus, Ed.—Plenum Press, 712 p., illus., \$19.50. Papers deal with the impact of the Space Age on cryogenics, helium refrigerator and liquifier, insulation, refrigeration, cryogenic and mechanical properties, equipment and superconductivity.

AMERICAN BASEBALL: From Gentleman's Sport to the Commissioner System—David Quentin Voigt, foreword by Allan Nevins—Univ. of Okla. Press, 336 p., illus., \$5.95. Investigates the origins and evolution of the game, the growth of professionalism, and the big business aspects of this national sport.

ANIMAL APPETITES—George F. Mason—Morrow, 96 p., illus. by author, \$2.95. Grouped by the environment in which they live, the book tells interesting facts about feeding habits, including the feeding of wild animals in captivity.

APPLIED ANTHROPOLOGY IN ENGLISH-SPEAKING AFRICA—David Brokensha—Soc. for Applied Anthropology, 31 p., paper, \$1.50. Study describes and evaluates regional surveys, topics on which research has been focussed, and includes extensive bibliography.

BIostatistics—Alvin E. Lewis—Reinhold, 227 p., diagrams, \$8.50. A statistics text based on sound mathematical principles and copiously illustrated with data from contemporary biology.

A CASEBOOK OF SOCIAL CHANGE—Arthur H. Niehoff, Ed.—Aldine Pub. Co., 312 p., \$6. Critical evaluations of attempts to introduce change in the five major developing areas of the world, presenting 19 case histories of actual efforts at innovation in Latin America, Africa, the Middle East and Asia.

A CHANCE FOR A CHANGE: New School Programs for the Disadvantaged—OE (GPO), 65 p., illus., paper, 60¢. Illustrates and describes how local school systems across the nation use funds available through the Elementary and Secondary Education Act of 1965/Title I.

EDEN IN JEOPARDY: Man's Prodigal Meddling with His Environment, The Southern California Experience—Richard G. Lillard—Knopf, Alfred A., 335 p., photographs, map, \$6.95. A concerned look at the changes the 20th century has wrought in population, transportation, water supply, agriculture, industry, recreation and topography.

ELECTRON TUBES—Royce Gerald Kloeffer—Wiley, 262 p., illus., \$5.95. An introduction to vacuum and gaseous tube theory and analysis that emphasizes graphical analysis, with special attention to construction, theory of operation and the characteristics of electron tube devices.

ENZYM KINETICS: Open and Closed Systems—Charles Walter—Ronald Press, 102 p., diagrams, \$7. Describes some of the useful concepts now available to enzyme kinetics, such as stationarity, relaxation methods and chemical oscillations.

EXPLOITING THE OCEAN: Transactions of the 2nd Annual MTS Conference & Exhibit, 1966—Richard C. Steere, Chmn.—Marine Technology Society, 570 p., illus., paper, \$6. Topics covered range from legal aspects of ocean exploitation to a discussion of marine protein concentrate.

GEMINI MIDPROGRAM CONFERENCE including Experiment Results—Manned Spacecraft Center, Houston; Robert R. Gilruth, Dir.—NASA (GPO), 443 p., illus., paper, \$2.75. Presents a summary of the Gemini Program to date with emphasis on the first seven missions.

HEALTH SERVICES RESEARCH, Vol. 1, No. 1, Summer 1966—William S. Spector, Ed.—Health Services Research, 116 p., paper, \$3; quarterly, \$12 annually. New journal dedicated to reporting promptly significant research on an international basis in the numerous fields of health services. This first issue discusses probability sampling technique of controlled selection, identification codes for medical records, and several studies of patients' waiting time and doctors' idle time in the out patient setting.

THE HUMAN BODY IN EQUIPMENT DESIGN—Albert Damon, Howard W. Stout and Ross A. McFarland—Harvard Univ. Press, 360 p., illus., \$11.95. Makes available extensive quantitative data on the human body size and bio-mechanics, based in a broad biological context and applied to the design of equipment for human use.

THE HUNT FOR THE WHOOPING CRANES: A Natural History Detective Story—J. J. McCov, preface by Carl W. Buchheiser—Lothrop, 223 p., photographs, maps and drawings by Rey Abruzzi, \$4.50. Handsomely designed book tells the suspenseful story of how scientists and conservationists tracked down the rare cranes' nesting grounds in the far north of Canada.

IDENTIFYING PROBLEM DRINKERS in a Household Health Survey—Harold A. Mulford and Ronald W. Wilson—PHS (GPO), 46 p., paper, 35¢. A description of field procedures and analytical techniques developed to measure the prevalence of alcoholism.

LOW-INCOME LIFE STYLES—Lola M. Irelan, Ed.—HEW (GPO), 86 p., illus., paper, 35¢. Summarizes important recent findings reported by investigators in the field of social welfare.

MATRIX ALGEBRA FOR PHYSICISTS—R. K. Eisenschitz—Plenum Press, 124 p., \$4.95. Specialized text designed to meet the needs of the physics student, topics discussed include transformations, diagonalization of matrices, invariance, vectors and tensors, and quantum physics.

METEORIC MATTER IN INTERPLANETARY SPACE—V. G. Fesenkov, transl. from Russian—NASA/TT F-378 (CFSTI), 226 p., paper, \$6. The author attempts to derive the distribution of meteors within the solar system.

MODERNIZATION: The Dynamics of Growth—Myron Weiner, Ed.—Basic Bks., 355 p., \$6.95. Lectures originally prepared by 25 American scholars to be broadcast by the Voice of America, they present reflections on how modernization occurs and how it can be accelerated.

MODES OF REPRODUCTION IN FISHES—Charles M. Breder, Jr. and Donn Eric Rosen—Natural Hist. Press, 941 p., illus., \$17.50. Of some 20,000 species of known fishes, the breeding habits of only about 300 have been fully described. This book contains data on 1500 species, arranged within the framework of current fish classification, employing current ordinal and familial names collected into seven major analytic categories.

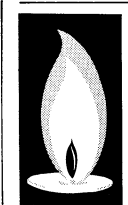
MOTHS AND BUTTERFLIES and How They Live—Robert M. McClung—Morrow, 64 p., illus. by author, \$2.95. Describes the habits of many species in simple language, with instructions for the young collector.

NATURAL NIDALITY OF TRANSMISSIBLE DISEASES: With Special Reference to the Landscape Epidemiology of Zoonothroponoses—Evgen N. Pavlovsky, transl. from Russian by Frederick K. Plous, Jr., ed. by Norman D. Levine—Univ. of Ill. Press, 261 p., illus., \$8. Represents a distillation of Pavlovsky's many years of investigation of certain diseases that occur naturally in wildlife and are transmitted to man by way of arthropod vectors when man enters the territory of the wildlife.

PROGRESS IN HEAT TRANSFER—P. K. Konakov, Ed., transl. from Russian by James S. Wood—Consultants, 167 p., diagrams, paper, \$20. Deals with laminar boundary layer flow in transparent and gray media, and with equipment for the preparation of semiconductor materials.

A PROPOSED MODEL FOR VISUAL INFORMATION PROCESSING IN THE HUMAN BRAIN—Matthew Kabrisky—Univ. of Ill. Press, 104 p., illus., \$6.75. An attempt to decipher some of the operation and calculation techniques used by the human brain, describes simulation on an IBM 1620 digital computer of the operation of the visual system of the brain operating as a pattern recognition device.

QUESTIONNAIRE DESIGN AND ATTITUDE MEASUREMENT—A. N. Oppenheim—Basic Bks., 298 p., illus., \$5.95. Could serve as a



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textbook for research students and undergraduates in Social Psychology and Sociology, and others who need guidelines to design good questionnaires.

REFRACTORY SEMICONDUCTOR MATERIALS—Yu. V. Shmartsev, Yu. A. Valov and A. S. Borshechvskii; N. A. Goryunova and D. N. Nasedov, Eds., transl. from Russian by Albin Tybulewicz—Consultants, 93 p., diagrams, paper, \$12.50. Discusses the main technical methods used in the synthesis and growth of single crystals and summarizes data on the preparation, properties and applications of diamond, silicon carbide, nitrides, boron arsenide, and phosphides of aluminum, gallium and indium.

SCIENTIFIC MAN: Meddler, Manipulator or Manager of Evolution—Herbert Henry Busher, M.D.—Fell, Frederick, 191 p., \$3.50. Three long essays contemplating man, his mind and his mission.

A SOCIAL HISTORY OF ENGINEERING—W. H. G. Armytage—M.I.T. Press, 378 p., plates, \$10. Charts technological developments with special reference to Britain, indicates how they have affected and been affected by social life at certain stages and offers some clues as to the origins of innovations and institutions.

SOUTH VIETNAM: U.S.-Communist Confrontation in Southeast Asia 1961-65—Lester A. Sobel, Ed.—Facts on File, 238 p., photographs, paper, \$2.95. A journalistic narration of the events that led to the genesis and spread of the war in Vietnam.

THAT QUAIL ROBERT—Margaret A. Stanger—Lippincott, 127 p., illus. by Cathy Baldwin, \$3.95. Story of a game bird that preferred life in a human household after hatching from the egg.

THE THREAD OF LIFE: An Introduction to Molecular Biology—John C. Kendrew—Harvard Univ. Press, 112 p., 52 plates, illus., \$4. Based on a series of B.B.C. Television lectures on molecular biology, delivered in 1964 by the Nobelist, and intended to communicate some of the excitement scientists feel when a whole area of knowledge is being illuminated by a new synthesis of hitherto unconnected facts.

VILHJALMUR STAFANSSON: Young Arctic Explorer—Hortense Myers and Ruth Burnett—Bobb-Merrill, 200 p., illus. by Robert Doremus, \$2.25. Juvenile biography.

THE WONDER WHEEL BOOK OF BIRDS—Evelyn Fiore—Nelson, Thomas, unpagged, produced and illus. by Janet and Alex D'Amato, \$2.95. A guide to 40 familiar birds grouped on four turning wheels showing environment, male, female, nest, egg and young of each species.

THE YOSEMITE STORY—Harriet E. Huntington—Doubleday, 96 p., photographs by author, diagrams by J. Noel, \$3.50. The history, geology and rock formations of the Sierra Nevada and the Yosemite Valley described in nontechnical language, abundantly illustrated.

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