

books OF THE WEEK

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AMERICAN INDIAN ALMANAC—John Upton Terrell—World Pub. Co., 1971, 494 p., maps, tables, \$15. A referenced chronicle of prehistoric Indian finds in the southwestern deserts and mesa lands, Gulf region, south- and northeastern woodlands, central prairies, Great Plains, northern mountains, Great Basin, and Pacific Coast.

AN ANNOTATED BIBLIOGRAPHY ON DIVING AND SUBMARINE MEDICINE—Charles W. Schilling, M.D. and Margaret F. Werts—Gordon & Breach, 1971, 622 p. \$40. Contains more than 1900 abstracts and complete citations covering the subject area from January 1962 to September 1969.

CELLULAR ASPECTS OF NEURAL GROWTH AND DIFFERENTIATION—Daniel C. Pease, Ed.—Univ. of Calif. Press, 1971, 509 p. illus., \$25. Results of 1969 conference dealing with morphological and biochemical aspects of the developing nervous system, papers range from neural crest cell migration to levels of brain-specific proteins during degeneration and development.

THE CONDENSED CHEMICAL DICTIONARY—Rev. by Gessner G. Hawley—Van Nostrand Reinhold, 1971, 8th ed., 971 p., \$27.50. Some 18,000 entries give compact summaries of pertinent facts on properties and uses of chemicals, raw materials and processes; extended definitions of chemical phenomena, and description of trademarked products in the chemical industries.

THE CONSTRUCTION OF MODERN SCIENCE: Mechanisms and Mechanics—Richard S. Westfall—Wiley, 1971, 171 p., illus., \$7.50; paper, \$3.95. Presents the general reader with short narrative and analysis of the important scientific activities of the 17th century, from Kepler's celestial dynamics and Galileo's terrestrial mechanics to Newtonian dynamics.

CONTROL OF HUMAN FERTILITY: Proceedings of Fifteenth Nobel Symposium, 1970—Egon Diczfalusy and Ulf Borel, Eds.—Wiley-Interscience, 1971, 354 p., illus., \$19.50. Leading experts discuss the latest developments in contraceptive steroids, factors influencing fertilization, non-steroidal antifertility agents, IUD mechanism, factors stimulating ovarian function, and health aspects of fertility control.

COSMIC GAMMA RAYS—Floyd William Stecker—Mono Bk. Corp., 1971, 246 p., diagrams, \$12.50. Comprehensive theoretical monograph on the production and interaction of cosmic gamma rays, galactic interactions, secondary cosmic-ray positrons, Compton interactions and bremsstrahlung.

THE COUGAR DOESN'T LIVE HERE ANY MORE—Lorus J. Milne and Margery Milne—Prentice-Hall, 1971, 258 p., photographs, drawings, \$9.95. Essays deal in broad perspective with all facets related to the rise and extinction of animal species, thoroughly researched and highly readable, it shows man as part of a system on which his survival depends.

CRISES OF FAMILY DISORGANIZATION: Programs to Soften Their Impact on Children—Eleanor Pavenstedt, M.D. and Viola W. Bernard, M.D., Eds.—Behavioral Pubs., 1971, 103 p., \$5.95. Presents practical recommendations and describes preventive and remedial interventions in seriously disturbed families.

DAMAGE TOLERANCE IN AIRCRAFT STRUCTURES—J. M. Barsom and others, introd. by M. S. Rosenfeld—ASTM, 1971, 251 p., illus., \$19.50. Symposium papers on diverse aspects of fatigue crack propagation, effects of thickness on fracture toughness, influence of curvature on stress intensity, and other damage tolerance features.

DYNAMICS OF INSTITUTIONAL CHANGE: The Hospital in Transition—Milton Greenblatt, Myron R. Sharaf and Evelyn M. Stone—Univ. of Pittsburgh Press, 1971, 260 p., \$8.95. Concerned with the transitional period in the reorganization of a large public institution with primary focus on the problems hampering change and the gains and losses of one or another strategy of change.

EMISSION SPECTROCHEMICAL ANALYSIS—Morris Slavin—Wiley-Interscience, 1971, 254 p., illus., \$16.50. Comprehensive survey of spectroanalytical methods, treats physical and optical principles, spectrographs and spectrometers, spectrochemical sources, receivers of radiation, identification of spectra, densometer, photometry and quantitative methods.

THE END OF A TRADITION: Culture Change and Development in the Municipio of Cunha, Sao Paulo, Brazil—Robert W. Shirley—Columbia Univ. Press, 1971, 304 p., maps, \$10. Field study of social change in one of the oldest communities in Brazil under the manifold impact of one of the major centers of industrial growth.

ENGLISH WORD POWER FOR PHYSICIANS AND OTHER PROFESSIONALS: A Vigorous and Cultured Vocabulary—J. E. Schmidt—Thomas, C.C., 1971, 227 p., \$14.75. Interesting and distinctive words are listed in groups, defined, analyzed, and illustrated by example; with self-test sentences.

THE EPIDEMIOLOGY OF OPIATE ADDICTION IN THE UNITED STATES—John C. Ball and Carl D. Chamber, Eds., preface by Griffith Edwards—Thomas, C. C., 1971, 337 p., tables, \$15.50. Detailed study of the present epidemiological pattern of drug addiction in the U.S., opiate use in selected populations, and the medical aspects of narcotics addiction.

FUNDAMENTAL REFERENCE SOURCES—Frances Neel Cheney—Am. Lib. Assn., 1971, 318 p., \$8.50. Annotated list of sources of bibliographic and biographical information, sources on words, encyclopedias, sources of statistics and of geographical information.

A HISTORY OF POLIOMYELITIS—John R. Paul, M.D.—Yale Univ. Press, 1971, 486 p., photographs, drawings, \$15. Authoritative and highly readable historical record of the interlinking research, setbacks and breakthroughs in recognizing the disease and developing successful vaccination against it.

HOPES AND FEARS OF THE AMERICAN PEOPLE—Albert H. Cantril and Charles W. Roll, Jr.—Universe Bks., 1971, 93 p., tables, \$4.95; paper, \$1.95. Analysis of findings from two national polls designed by the authors to measure the state of national wellbeing among the American people.

HUMAN FACTORS: Theory and Practice—David Meister—Wiley-Interscience, 1971, 415 p., diagrams, \$16.95. Deals with the underlying concepts and with the realities of the human factors job, tries to describe what is actually done during system development and what should be done.

THE HUMANIZATION PROCESS: A Social, Behavioral Analysis of Children's Problems—Robert L. Hamblin and others—Wiley-Interscience, 1971, 305 p., diagrams, tables, \$12.50. Discusses learning theory and experiments concerning the acculturation processes through which children develop language facility and logic, with particular reference to the inner-city child, the hyperaggressive and the autistic child.

IMPACT OF NEW TECHNOLOGIES ON THE ARMS RACE: A Pugwash Monograph—B. T. Feld and others, introd. by G. W. Rathjens—M.I.T. Press, 1971, 379 p., illus., paper, \$2.95. Presentation and summaries of discussion on topics ranging from ballistic-missile guidance to tritium safeguards.

INTRODUCTION TO RESEARCH WITH CONTINUOUS CULTURES—H. E. Kubitschek—Prentice-Hall, 1971, 195 p., illus., paper, \$6.95. A comprehensive guide to the advantages and disadvantages of continuous cultures, the underlying concepts of their operation, procedures and apparatus, and applications to a broad range of biological investigation.

ISOTOPE EFFECTS IN CHEMICAL REACTIONS—Clair J. Collins and Newell S. Bowman, Eds.—Van Nostrand Reinhold, 1971, 435 p., diagrams, \$22.50. Monograph reviews new material in relation to pertinent older data on aliphatic nucleophilic substitutions, secondary deuterium effects and neighboring group participation, and isotope effects in biological systems.

MAN AND BEAST: Comparative Social Behavior—J. F. Eisenberg and Wilton S. Dillon, preface by S. Dillon Ripley—Smithsonian (Braziller), 1971, 401 p., illus., \$11.50. Papers offer data, insight, hypotheses and bibliography on four main themes: the biological bases for social behavior, the basic mechanisms of social behavior in animals and man, man's uniqueness, and man's ability to control his survival.

ON RELIEF: The Economics of Poverty and Public Welfare—Bruno Stein—Basic Bks., 1971, 211 p., \$6.95. Survey and critical analysis of the U.S. system of public assistance, examined from within economist's theoretical framework.

ON THE PSYCHOLOGY OF WOMEN: A Survey of Empirical Studies—Julia A. Sherman—Thomas, C.C., 1971, 304 p., \$13.50. Examination of the objective psychological data of the female life cycle with tentative assessments of the current status of the evidence.

THE PINEAL GLAND: A Ciba Foundation Symposium—G. E. W. Wolstenholme and Julie Knight, Eds.—Churchill (Williams & Wilkins), 1971, 401 p., illus., \$14.50. Surveys recent developments in studies on pineal gland including neuroanatomical research in different vertebrates, control of melatonin synthesis, and pineal-brain relationships.

PROCEDURES IN SEDIMENTARY PETROLOGY—Robert E. Carver, Ed.—Wiley-Interscience, 1971, 653 p., illus., \$24.95. Guide to standard procedures for measurement and analysis of data, deals with sedimentary structures, grain-size distribution, grain attributes, texture, mineralogy, organic carbon, and Eh-pH determination.

VISUAL THINKING—Rudolf Arnheim—Univ. of Calif. Press, 1971, 345 p., illus., paper, \$4.25. Deals with the intelligence of perception in children, limited in this book to the sense of sight. The author concentrates on the truly creative aspects of the mind, the process by which concepts take shape.