

Books of the Week

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ANTARCTICA: The Worst Place in the World—Allyn Baum—Macmillan, 151 p., photographs by author, map, \$3.95. A first-hand account of scientific man's struggle for survival in the hostile climate of Antarctica, tells how bases are set up and maintained, and how men live there and work together.

ASTROPHYSICS, Vol. I, No. 1 (Jan.-March 1965)—V. A. Ambartsumyan, Ed.-in-Chief, transl. from Russian—Faraday Press (N.Y.), 79 p., diagrams, paper, single issue \$35; \$90 annually. Cover-to-cover translation of specialized new Soviet journal on astrophysical research and observational results, begins with article on the mass defect of baryon stars.

CAREERS AND OPPORTUNITIES IN INTERNATIONAL SERVICE—Herbert and Mary Stewart Krosney, foreword by Roger Hilsman—Dutton, 256 p., photographs, \$4.50. Presents the possible rewards and range of opportunities young Americans can find in constructive service and careers throughout the changing world.

THE CHILD WITH CENTRAL NERVOUS SYSTEM DEFICIT: Report of Two Symposia—Children's Bureau—GPO, 149 p., illus., paper, 75¢. Papers report on the changing and growing knowledge in treatment procedures for deficient children.

CHINESE-ENGLISH, ENGLISH-CHINESE ASTRONOMICAL DICTIONARY—Preface by Hong-Yee Chiu, Ed.—Consultants, 173 p., \$15. The first half is a reproduction of the Chinese-English part of the Chinese-Russian-English Astronomical Nomenclature published in 1959 in Peking. The second part is helpful for cross-reference purposes.

COATINGS OF HIGH-TEMPERATURE MATERIALS, Parts 1, 2 and 3—G. V. Samsonov and others, foreword by Henry H. Hausner, Ed.—Plenum Press, 296 p., illus., \$15. Discusses different aspects of coating problems and reports on advances made in the U.S. and the U.S.S.R. in dealing with the problems of coating high-temperature materials.

CORRELATION EQUATIONS: For Statistical Computations—Aristarkh Konstantinovich Mitropol'skii, transl. from Russian by Edwin S. Spiegelthal—Consultants, 103 p., diagrams, \$9.50. Presents methods for computing correlation equations with concrete examples from the field of analysis of the mechanical properties of steel, wood and other materials.

DESERT PEOPLE: A Study of the Walbiri Aborigines of Central Australia—M. J. Meggitt—Univ. of Chicago Press, 348 p., illus., \$7.50. This field study in social anthropology (1962) is especially concerned with the subdivision of the tribe into localized groups, illustrated with many actual examples of behavior it examines the prospects of the Walbiri in the Commonwealth's plan for assimilation.

A DICTIONARY OF QUOTOONS—O. A. Battista—Reader-Services Co., 275 p., \$4.95. Collection of the author's quotable remarks such as "a good scientist never argues with the facts unless he has gone to the trouble of checking them himself."

ELECTRICAL INSTRUMENTS IN HAZARDOUS LOCATIONS—Ernest C. Magison—Plenum Press, 225 p., diagrams, \$22.50. Presents technical information needed for an understanding of the requirements for safe, economical use of electrical instruments in hazardous areas.

ELECTRONIC ENGINEERING MEASUREMENTS FILEBOOK—Stephan E. Scrupski, Ed.—TAB Bks., 168 p., illus., \$9.95. Tells electronic engineers and technicians how to measure specific parameters, by using special techniques.

ENERGETICS IN METALLURGICAL PHENOMENA, Vol. II—William M. Mueller, Ed.—Gordon & Breach, 203 p., diagrams, \$11; paper, \$5.50. Seminar proceedings (1963), covering kinetic and thermodynamic properties of surfaces, solid solution formation, statistical mechanics of nucleation and crystal growth, and point defects in metals.

FERNS AND FERN ALLIES OF CALIFORNIA—Steve J. Grillos—Univ. of Calif. Press, 104 p., illus. by Rita Whitmore, paper, \$1.50. A pocket-size introduction to the study and identification of ferns.

FUEL CELLS: Their Electrochemical Kinetics—V. S. Bagotskii and Yu. B. Vasil'ev, transl. from Russian—Consultants, 121 p., diagrams, paper, \$15. Collection of articles on the theory

of fuel cells, from discussion of mechanism of the functioning of porous electrodes, to advances in research on the oxidation of several organic substances.

GLOSSARY OF TERMS FREQUENTLY USED IN CLOUD PHYSICS—Katharina and Heinz Lettau—AIP, 41 p., paper, \$1. Restricted to that branch of atmospheric physics concerned with the descriptive and optical properties, the thermodynamics and the physicochemistry of hydrometeors.

GOD AND GOLEM, INC.: A Comment on Certain Points where Cybernetics Impinges on Religion—Norbert Wiener—M.I.T. Press, 99 p., paper, \$1.45. Reprint (1964).

HANDBOOK OF GENERALIZED GAS DYNAMICS—Robert P. Benedict and William G. Steltz—Plenum Press, 243 p., \$12.50. Facilitates engineering solutions of one-dimensional gas dynamics problems involving compressible and constant-density fluids.

HIGHER CORTICAL FUNCTIONS IN MAN—Aleksandr Romanovich Luria, transl. from Russian by Basil Haigh; prefaces by Hans-Lukas Teuber and Karl H. Pribram—Basic Bks., 513 p., illus., \$17.50. A major document in neuropsychology, deals with observations and interpretations of major syndromes of man's left cerebral hemispheres, and describes in detail the author's original tests.

HOW TO BE A NATURE DETECTIVE—Millicent Selsam—Harper, 48 p., illus. by Ezra Jack Keats, \$2.95. A charmingly designed book about animal tracks for beginning readers.

HOW TO LIVE WITH SCHIZOPHRENIA—Abram Hoffer and Humphry Osmond, foreword by Nolan D. C. Lewis—University Bks., 177 p., \$5.95. Offers nontechnical explanation of what schizophrenia is, its causes and treatment, including the authors' simple and controversial vitamin B-3 therapy.

INTRODUCTION TO THE NATURAL HISTORY OF SOUTHERN CALIFORNIA—Edmund C. Jaeger and Arthur C. Smith—Univ. of Calif. Press, 104 p., illus. by Gene M. Christman, color plates, paper, \$1.95. Designed to stimulate interest in field trips to observe and add to the scientific knowledge of biotic communities in a region where the bristlecone pine and the creosote bush are at home.

MAN IN THE UNIVERSE—Fred Hoyle—Columbia Univ. Press, 81 p., \$3.50. Five lectures in which the author reflects—from an astronomer's point of view—on space research, on man's need for stronger foundations of scholarship to better understand the universe, and man's responsibility to earth before assuming his place in the universe.

MASTERY OF THE AIR: An account of the Science of Mechanical Flight—Sir Graham Sutton—Basic Bks., 216 p., plates, diagrams, \$4.95. An account of how the problems of the mechanics of flight have been solved, step by step, through scientific research and the application of mathematical theories.

MICROBES IN YOUR LIFE—Leo Schneider—Harcourt, 154 p., photographs, illus. by Henri A. Fluchere, \$3.75. Summarizes present knowledge in the field of microbiology for young readers.

MOUNTAIN CONQUEST—Eric Shipton; Bradford Washburn, Consult. Eds. of Horizon Magazine—Am. Heritage (Harper), 156 p., photographs, illus., maps, \$4.95. Handsomely designed book on mountaineering expeditions, for young people.

NATURE AND THE CAMPER: A Guide to Safety and Enjoyment for Campers, Hikers, Hunters and Fishermen on the Pacific Slope and the Southwest Deserts—Mary V. and A. William Hood—Ward Ritchie Press, rev. ed. 157 p., illus. by Don Perceval, paper, \$1.95. Timely information for vacationing outdoors.

THE PENGUIN ENCYCLOPEDIA—Sir John Sumnerscale, Ed.—Penguin Bks., 647 p., drawings, paper, \$2.25. Concise reference work with articles by specialists, emphasizes advances in science and technology as well in arts and humanities, and knowledge useful today.

PERSONAL HEALTH EXPENSES, PER CAPITA ANNUAL EXPENSES: United States, July-December 1962—National Center for Health Statistics, PHS—GPO, 53 p., paper, 40¢. Statistics by age, sex, color, family income, education

of head of household, geographic region, residence and insurance coverage.

THE PICTURE BOOK OF ANNUALS—Arno and Irene Nehrling—Hearthside Press, 288 p., photographs, illus., \$6.95. Combines alphabetically arranged description of generally cultivated annuals, from Abronia to Zinnia, with section on practical hints for successful gardening with annuals.

PUEBLO WARRIORS AND SPANISH CONQUEST—Oakah L. Jones, Jr.—Univ. of Okla. Press, 225 p., photographs, maps, bibliography, \$5. Fully annotated account of the procedures, organization, contributions and significance of the Pueblo Indian auxiliaries from 1692 to 1794 in the central section of New Spain's northern frontier.

QUANTUM MECHANICS—D. I. Blokhintsev—Gordon & Breach, 555 p., illus., \$17.50. English translation of third and fourth Russian editions, deals with collision theory, applications of quantum mechanics to the theory of the atomic nucleus and to the theory of elementary particles.

THE ROCKEFELLER FOUNDATION PROGRAM IN THE AGRICULTURAL SCIENCES: Annual Report 1964-1965—Albert H. Moseman, Dir.—Rockefeller Foundation, 262 p., photographs, single copies free upon request direct to Foundation, 111 W. 50th St., New York N.Y. Summarizes the year's efforts to internationalize the program's activities toward the conquest of hunger through crop research and improved management.

ROCKET FROM INFINITY—Lester del Rey—Holt, 191 p., \$3.95. Science fiction for young people about adventure with a planetoid.

THE SCHOOL CHILDREN: Growing Up in the Slums—Mary Frances Greene and Orletta Ryan—Pantheon Bks., 227 p., \$4.95. About the schoolchildren of Harlem in New York City in two "special service" schools run on high budgets in low-income neighborhoods, as narrated by teacher and children.

SELECTED SCIENCE BOOKS FOR SECONDARY SCHOOLS: A Bibliography (Biology Addendum)—R. Vincent Cash and others—Conn. Science Teachers Assn., 40 p., paper, 25¢ direct to CSTA Bibliography Committee, Central Connecticut State College, New Britain, Conn. Lists 190 graded titles emphasizing new programs and modern approaches to biology.

SIGNIFICANT ACHIEVEMENTS IN SATELLITE METEOROLOGY 1958-1964—NASA Scientific and Technical Information Division—GPO, 141 p., illus., paper, 60¢. Summarizes the progress made in areas covered by the Space Science and Applications Program of the United States.

SLEEP—Gay Gae Luce and Julius Segal—Coward-McCann, 335 p., \$5.95. A comprehensive and readable account of the results of the psychophysiological study of sleep, and research on the implications of sleep in everyday life.

SUNSET SWIMMING POOLS—Eds. of Sunset Books and Sunset-Lane Bks., rev. ed., 112 p., photographs, diagrams, paper, \$1.95. Popularly presented technical information on planning, structure, maintenance methods, developments in heating and filtering, and interior finishes of family swimming pools.

THE SWIFT DEER—Robert M. McClung—Random House, 81 p., photographs, map, \$1.95. Tells young people about whitetails, mule deer, elk moose caribou, reindeer and their relatives.

UNDER PRESSURE: The Writer in Society, Eastern Europe and the U.S.A.—A. Alvarez—Penguin Bks., 189 p., paper, 95¢. Essentially B.B.C. feature broadcasts between 1961 and 1964, the book deals with the pressure intellectuals—people to whom ideas are emotionally important—felt themselves to be under and how they varied in countries like Poland, Hungary, Czechoslovakia, Yugoslavia and in the U.S.

VACATIONS ABROAD 1966: International Directory of Summer Courses, Study Tours and Work Camps Compiled by Unesco—Unesco Publications Center, 155 p., paper, \$2. Information on vacation activities offered by more than 960 institutions and organizations in 63 countries.

WHAT'S THE BIGGEST?—Barbara R. Fogel—Random House, 115 p., illus. by Barbara Wolf, \$3.50. Children's book on facts and theories about bigness in man-made things, in nature and in the universe.

THE YOUNG CHARLES DARWIN—Charlotte Hope—Roy Pubs., 127 p., illus. by A. Walter Atkinson, \$3.25. Fictionalized juvenile biography.

THE YOUNG EINSTEIN—Patrick Pringle—Roy Pubs., 128 p., illus. by Cecile Curtis, \$3.25. Fictionalized story of the great physicist's childhood.

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