

books OF THE WEEK

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AN ADVENTURER'S GUIDE TO NUMBER THEORY—Richard Friedberg—McGraw-Hill, 1968, 228 p., illus., \$5.95. Readable, historically oriented introduction to number theory, deals with property of numbers and with numbers as abstract concepts.

INTRODUCTION TO FOURIER OPTICS—Joseph W. Goodman—McGraw-Hill, 1968, 287 p., illus., \$13.50. Presents a unified treatment of a variety of topics of modern optics, including diffraction image formation, optical data processing and holography.

THE MODEL AIRCRAFT HANDBOOK—Howard G. McEntee—Crowell, 1968, rev. ed., 226 p., illus., \$6.95. Explains the simplified aerodynamics involved and how model planes are actually built, adjusted and flown.

MODERN SOCIAL THEORY—Percy S. Cohen—Basic Bks., 1968, 247 p., \$5.95. Deals with a number of closely related themes in theoretical sociology, such as functionalism, the action approach, interaction theories and models, social structures, and directions of social change.

MOLECULES AND EVOLUTION—Thomas H. Jukes—Columbia Univ. Press, 1968, 285 p., illus., paper, \$3.95. Reviews some of the research dealing with biochemical reactions that are responsible for the structure, function and survival of living organisms and that have a bearing on evolution.

THE NEW UTOPIANS: A Study of System Design and Social Change—Robert Boguslaw—Prentice-Hall, 1968, 220 p., paper, \$2.45. Reprint (1965).

ORGANIC FUNCTIONAL GROUP ANALYSIS: Theory and Development—George H. Schenk—Pergamon Press, 1968, 297 p., diagrams, \$6; paper, \$4.50. Written at the advanced undergraduate level, the book discusses the theory and development of seven selected organic functional methods, with emphasis on the most modern methods.

ORNAMENTAL SHRUBS FOR TEMPERATE ZONE GARDENS—Edward Hyams—A. S. Barnes, 1968, 319 p., 100 photographs, \$20. Amateur gardener's long-time experience with flowering and evergreen shrubs, organized in six sections grouped together according to their main flowering season.

PARADOXES IN THE THEORY OF RELATIVITY—Yakov P. Terletskii, transl. from Russian, foreword by Banesh Hoffman—Plenum Press, 1968, 120 p., diagrams, \$9.50. Offers an extension of Einstein's ideas, dealing boldly with thermodynamical, epistemological and other problems raised by the concept of particles with negative mass or imaginary mass.

PEOPLE AND PLANS: Essays on Urban Problems and Solutions—Herbert J. Gans—Basic Bks., 1968, 395 p., \$10. Urban sociologist applies social-science concepts and data to the issues confronting urban planners, social scientists and other professionals concerned with the future of American cities.

POGONOMYRMEX HARVESTER ANTS: A Study of the Genus in North America—Arthur C. Cole, Jr.—Univ. of Tenn. Press, 1968, 222 p., illus., maps, \$7.50. This comprehensive treatise, based on intensive field work and revisionary study, separates the genus into complexes and 22 species as valid taxa.

THE POLITICS OF MENTAL HEALTH: Organizing Community Mental Health in Metropolitan Areas—Robert H. Connery and others—

Columbia Univ. Press, 1968, 595 p., \$10. Group report based on field studies made in 1963-1964 and on discussions by a committee of psychiatrists, psychologists, biologists, economists and political scientists.

THE PROCESSION OF LIFE—Alfred S. Romer—World Pub. Co., 1968, 323 p., 48 plates, 56 drawings, \$12.50. A study of the evolution of all the major groups of animals, outlines the variety of forms in each family, following the evolutionary development with each family and showing how they interrelate.

PROGRESS, COEXISTENCE AND INTELLECTUAL FREEDOM—Andrei D. Sakharov, transl. by The New York Times, annotated by Harrison E. Salisbury—Norton, 1968, 158 p., \$3.95. Russian physicist's statement on the tensions, needed changes and plans for cooperation in U.S.-U.S.S.R. relations, with thorough analysis by former Moscow correspondent.

PSYCHOLOGICAL ASPECTS OF PHYSICAL SYMPTOMS: A Dynamic Study of Forty-Five Hospitalized Medical Patients—Samuel Silverman—Appleton, 1968, 453 p., \$15. Presents detailed clinical material from a series of consecutive admissions, providing data from which inferences can be drawn on the role of psychological factors.

RACE AGAINST FAMINE—Melvin A. Bernarde—Macrae Smith, 1968, 97 p., photographs, graphs, \$4.75. The story behind the statistical graphs in terms of protein deficiency, the book tells about the development of protein concentrates and the people's reaction to them.

RACIAL AND GEOGRAPHICAL FACTORS IN TUMOUR INCIDENCE—A. A. Shivas, Ed.—Edinburgh Univ. Press (Williams & Wilkins), 1968, 291 p., photographs, graphs, \$11. Symposium papers (1966), topics range from discussion of criteria of malignancy, of cancer incidence in Iceland and in Singapore, to tumors in domesticated animals.

THE RADIATION BELT AND MAGNETOSPHERE—Wilmot N. Hess—Blaisdell Pub. Co., 1968, 548 p., illus., \$16.50. Presents a first synthesis of the extensive literature on the Van Allen radiation belt during the past decade, presenting both theory and experimental findings.

RAPID EXCAVATION: Significance, Needs, Opportunities—Committee on Rapid Excavation, National Research Council, Eugene P. Pfeiffer, Chmn.—NAS-NRC, 1968, 48 p., illus., paper, \$2.50. Report deals with excavation requirements, rock mechanics, ground control, materials handling, environmental safety and systems evaluation.

THE REVOLUTION OF HOPE: Toward a Humanized Technology—Erich Fromm—Harper, 1968, 162 p., \$5.95. Perceiving America at a crossroads, where one road leads to a completely mechanized society, the author analyzes our social system and develops ideas on alternatives to dehumanization.

SEA & AIR: The Naval Environment—Jerome Williams, John J. Higginson and John D. Rohrbough—U.S. Naval Institute, 1968, 338 p., photographs, diagrams, \$8.50. Keeping mathematical requirements at a minimum, the text treats the atmosphere and the oceans as a single fluid environment covering similar phenomena of the two fluids together whenever possible.

SO HUMAN AN ANIMAL—Rene Dubos—Scribner, 1968, 267 p., \$6.95. Well-known microbiologist, concerned with man's humanness, deals in this book with the scientific knowledge modern man has on the effects of surroundings, events and ways of life on human development, and the options man has to create conditions for the fuller development of the human potential.

SOME VISTAS OF MODERN MATHEMATICS: Dynamic Programming, Invariant Imbedding and the Mathematical Biosciences—Richard Bellman—Univ. of Ky. Press, 1968, 141 p., diagrams, paper, \$3.95. Emphasizes throughout the operational point of view of mathematical analysis, of providing numerical answers to numerical questions, and proposes reexamination of all classical mathematical models.

THE SUN AND ITS INFLUENCE: An Introduction to the Study of Solar-Terrestrial Relations—M. A. Ellison, rev. by Patrick Moore—Am. Elsevier Pub. Co., 1968, 3rd rev. ed., 240 p., plates, drawings, \$5.50. Popular and authoritative account

of the structure and characteristic activity of the sun, including auroras, radio waves and cosmic rays.

TEACHING CHILDREN SCIENCE: An Inquiry Approach—Louis I. Kuslan and A. Harris Stone—Wadsworth, 1968, 464 p., illus., \$7.95. Addressing the elementary school teacher, the book stresses the importance for children to derive learning from direct experiences with scientific phenomena.

TELLIAMED or Conversations Between an Indian Philosopher and a French Missionary on the Diminution of the Sea—Benoit de Maillet, transl. from French by Albert V. Carozzi, Ed.—Univ. of Ill. Press, 1968, 465 p., illus., \$10. Written between 1692 and 1718 by French diplomat and naturalist, the book is primarily a geological treatise which attempts to relate man, geology and the universe within the context of Cartesian logic.

TRACKERS OF THE SKIES—E. Nelson Hayes—Doyle Pub. Co., 1968, 169 p., illus., \$5; paper, \$3. An account of the original organization, problems and continuing activities of the Smithsonian Astrophysical Observatory's satellite-tracking program during the first decade of the Space Age.

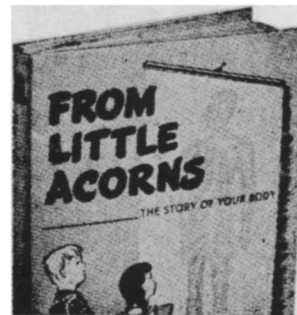
VIRUS-INDUCED ENZYMES—Seymour S. Cohen—Columbia Univ. Press, 1968, 315 p., diagrams, \$11.50. Traces the origins and development of biochemical virology, and presents the results of 15 years of basic experimental work which bears directly on the general phenomenon of the virus-induced production of enzymes.

THE WAY TO MODERN MAN: An Introduction to Human Evolution—Fred T. Adams—Teachers College Press, 1968, 284 p., illus., \$7.50. Presents the story of man's ancestry as science pieced it together from the fossil record.

WILD SANCTUARIES: Our National Wildlife Refuges, A Heritage Restored—Robert Murphy, foreword by Stewart L. Udall—Dutton, 1968, 288 p., 250 photographs, 32 maps, \$22.50. Well-illustrated descriptions of species protected in their natural environments, with directory of refuges from coast to coast, including practical information for visitors.

THE WORLD OF THE GRIZZLY BEAR—W. J. Schoonmaker—Lippincott, 1968, 190 p., photographs, by author, \$5.95. Follows the life cycle of the grizzly through many seasons, closely observing eating habits, mating rituals, and breeding and rearing customs in his natural habitat.

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