

books OF THE WEEK

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ADVANCES IN ASTRONOMY AND ASTROPHYSICS, Vol. 5—Zdenek Kopal, Ed.—Academic Press, 1967, 355 p., illus., \$16. Contains reports on zodiacal light, secular variation of mass, periodicity of sunspot groups, and on compact and dispersed cosmic matter.

THE APES: The Gorilla, Chimpanzee, Orangutan and Gibbon, Their History and Their World—Vernon Reynolds—Dutton, 1967, 296 p., 110 plates, drawings, maps, \$10. Comprehensive study of the surviving world of the great apes, their evolution, physiology and behavior, distribution and conservation.

BASIC SAFETY STANDARDS FOR RADIATION PROTECTION, 1967—International Atomic Energy Agency—Internat'l Pubns., N.Y., 1967, 79 p., paper, \$2. Revised regulations and tables concerning limitation of controllable radiation doses for workers and population, and intakes of radioactive materials through external and internal exposure.

THE CEREBELLUM AS A NEURONAL MACHINE—John C. Eccles, Masao Ito and Janos Szentagothai—Springer-Verlag N.Y., 1967, 335 p., illus., \$17. An analytical study of cerebellar structure and function, gives insights into the design and mode of operation of neural machinery, with emphasis on recent investigations in the laboratories of the authors and their collaborators.

ELECTRICAL POWER SYSTEMS ENGINEERING: Problems and Solutions—Alvin H. Knable—McGraw-Hill, 1967, 249 p., diagrams, \$9.95. A collection of worked out problems in areas of heavy electrical engineering such as circuit analysis, symmetrical components, flux-linkage calculations and overvoltages.

ENERGETICS IN METALLURGICAL PHENOMENA, Vol. III—William M. Mueller, Ed.—Gordon & Breach, 1967, 193 p., diagrams, \$12.50; paper, \$7.25. Deals with such topics as rate theory in solids, condensed-state reactions at high pressures, and stochastic processes and chemical kinetics.

GEOMETRY REVISITED—H. S. M. Coxeter and S. L. Greitzer—Random House, 1967, 193 p., diagrams, paper, \$1.95. At the advanced high school level, the book deals with properties of circles, collinearity and concurrence, transformations, inversive and projective geometry.

GIFT FROM THE SKY—Lorus and Margery Milne—Atheneum, 1967, 141 p., photographs, \$3.81. Story about a wild white swan that chose to rest on a New England millpond and was adopted by the whole town.

GOVERNMENT IN SCIENCE: The U.S. Geological Survey, 1867-1894—Thomas G. Manning—Univ. of Kentucky Press, 1967, 257 p., \$7. Documents the politically involved early history of an important branch of government research and services.

THE HUMAN ORGANISM AS A PERSON—S. Howard Bartley—Chilton Bk. Co., 1967, 221 p., diagrams, \$8.50. A text of particular interest to optometrists and others primarily interested in vision, the author attempts to bridge the gap between biology and psychology, stressing throughout that vision is related to the complete physiological state.

THE IMPACT OF TELEVISION: Methods and Findings in Program Research—W. A. Belson—Archon Bks., 1967, 400 p., \$10. Stressing the need for more factual research measuring the effects of programs, the writer describes in detail techniques for conducting such research, illustrating with actual inquiries conducted under his direction.

MEET THE HEAVENS!

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SKY AND TELESCOPE Cambridge, Mass. 02138

IN THE SERVICE OF MAN: Technology and the Future of Human Values—J. V. Langmead Casserley—Regnery, 1967, 204 p., \$4.95. Essays concerning social and personal values under the impact of social, political and economic changes.

INTRODUCTION TO SPECIAL RELATIVITY—Herman M. Schwartz—McGraw-Hill, 1967, 458 p., diagrams, \$14.75. Presents the principal ideas, methods and results of the special theory of relativity, and attempts to develop an appreciation of the conceptual and mathematical structure and applicative possibilities of this theory.

KNOW YOUR SKIN—John H. Woodburn—Putnam's, 1967, 159 p., illus. by Lee Ames, \$3.49. Explains to the adolescent how the skin functions, its pigment, blisters and blackheads, allergies and infections.

THE MAMMALS: Young Readers Edition—Adapted from text by Richard Carrington, Eds. of Time-Life Bks.—Time Inc., 1967, 128 p., illus. \$3.95. Short, dramatic survey of the diversity of mammals.

MASERS: Selected Reprints with Editorial Comment—J. Weber, Ed.—Gordon & Breach, 1967, 848 p., illus., \$15. Collection of original papers which contributed to the development and growth in microwave amplification by the stimulated emission of radiation.

PATIENTS ARE PEOPLE: A Medical-Social Approach to Prolonged Illness—Minna Field—Columbia Univ. Press, 1967, 3rd ed., 294 p., \$7.50. Includes the latest research and improvements in the field of social medicine and nursing education, with emphasis on total restoration of the patient.

THE PHILADELPHIA NEGRO: A Social Study—W. E. B. DuBois, introd. by E. Digby Baltzell—Schocken Bks., 1967, 520 p., maps, charts, \$8.50; paper, \$2.95. Reprint (1899), example of engaged sociological scholarship with 44-page new introductory chapter.

THE PHILIPPINE ISLAND WORLD: A Physical, Cultural and Regional Geography—Frederick L. Wernstedt and J. E. Spencer—Univ. of Calif. Press, 1967, 742 p., photographs, maps, \$20. An authoritative, comprehensive study of the island archipelago that is scattered over some 500,000 sq. mi. and consists of some 7,000 islands, islets and rocks.

PROGRESS IN OCEANOGRAPHY, Vol. 4: The Quaternary History of the Ocean Basins—M. Sears, Ed.—Pergamon Press, 1967, 344 p., illus., \$16. Contains 20 symposium papers dealing with the Plio-Pleistocene boundary, with the polar and the temperate seas, and the Quaternary sea level.

THE PSYCHOANALYTIC STUDY OF SOCIETY, Vol. IV—Warner Muensterberger and Sidney Axelrad, Eds.—Internat'l Universities Press, 1967, 350 p., \$8.50. Aimed to provide a meeting ground for the work of the social scientist and the psychoanalyst, this volume contains studies in social pathology and acculturation, and psychobiographies.

THE RADIOBIOLOGY OF CULTURED MAMMALIAN CELLS—Mortimer M. Elkind and Gordon F. Whitmore—Gordon & Breach, 1967, 615 p., illus., ref. ed. \$32; prof. ed. \$13.50. Papers deal with survival curve theory, *in vitro* survival curves, influence of chemical and physical factors, recovery from radiation damage, chromosome damage, and biochemical effects.

RIVER PLAINS AND SEA COASTS—Richard J. Russell, foreword by Carl O. Sauer—Univ. of Calif. Press, 1967, 173 p., photographs, maps, \$8.75. Informal, yet scholarly account of investigations in alluvial morphology, stream patterns, coastal morphology and tropical island problems.

SCIENCE EXPERIMENTS AND AMUSEMENTS FOR CHILDREN, formerly entitled **SCIENCE GAMES FOR CHILDREN**—Charles Vivian—Dover, 1967, 96 p., photographs by S. A. R. Watts, paper, \$1.25. Reprint (1963), offers 73 easy experiments illustrating important scientific principles.

SEAWATCHERS: Oceanographers in Action—William Bixby—McKay, 1967, 215 p., illus. by John Flynn, \$4.25. Describes a typical oceanographic voyage using the new technology to explore and analyze the sea.

SECOND DECENNIAL REVIEW CONFERENCE ON CELL TISSUE AND ORGAN CULTURE—Benton B. Westfall, Ed.—Nat'l Cancer

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Inst. (GPO), 1967, 429 p., 61 plates, diagrams, \$4. Covers broadly research concerned with the relationship between the cultured cell or tissues and its *in vivo* progenitor.

THE SOCIAL PROGRAMS OF SWEDEN: A Search for Security in a Free Society—Albert H. Rosenthal—Univ. of Minn. Press, 1967, 193 p., \$6. Annotated, thorough examination of Sweden's achievement in social security, public health and welfare programs, evaluated and compared with their U.S. counterparts.

SPACE SCIENCE FOR THE LAYMAN—Lawrence D. Ely, foreword by B. A. Schriever—Thomas, C. C., 1967, 200 p., illus., \$6.75. A popular, concise summary of some of the main goals and aspects of space missions.

STELLAR EVOLUTION—A. J. Meadows—Pergamon Press, 1967, 169 p., diagrams, \$4.50; paper, \$1.95. Authoritative treatment for the layman.

THEY DARED THE DEEP: A History of Diving—Robert F. Marx—World Pub. Co., 1967, 160 p., illus., \$3.95. A short historical review of underwater projects and pioneers.

THE UNITED STATES AND EASTERN EUROPE—Robert F. Byrnes, Ed.—The Am. Assembly (Columbia Univ. Press), 1967, 176 p., map, \$4.95. Background studies by economists and specialists in international relations providing insight into the complex problems facing the United States as it reviews its policies towards Eastern Europe.

THE WAY THINGS WORK: An Illustrated Encyclopedia of Technology—Simon & Schuster, 1967, 590 p., 1071 two-color diagrams, \$8.95. Designed to give the layman an understanding of how things work, from electric bell to color printing, from ballpoint pen to electrocardiograph.

WEIGHTS AND MEASURES: Their Ancient Origins and Their Development in Great Britain up to AD 1855—F. G. Skinner—HMSO (Brit. Inform. Service), 1967, 117 p., photographs, illus., paper, \$3. A science museum survey publication.

THE WORLD OCEAN: Man's Last Frontier—Vernon Pizer—World Pub. Co., 1967, 192 p., photographs, illus. by Lewis Zacks, \$4.95. Tells young people about the scientific interest man has in exploring the ocean depths.

TEXTBOOKS

ATOMS TO GALAXIES: A Textbook in the Physical Sciences—William Leader—Burgess, 1967, 227 p., illus., paper, \$4. Designed to supplement courses intended for the nonscience major.

STATISTICAL METHODS—George W. Snedecor and William G. Cochran—Iowa State Univ. Press, 1967, 6th ed., 593 p., \$8.50. A text for introductory statistics courses and a reference for research workers in the interpretation of their data. Extensively revised, includes a number of new topics and statistical tables are now placed in the appendix.

STRUCTURE OF THE HUMAN BODY—Weston D. Gardner and William A. Osburn—Saunders, 1967, 417 p., illus., \$8.75. Text written to meet the needs of the student preparing for one of the modern health fields, provides verbal and visual description of body structure including only the facts of human morphology which can be related to the living body.

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