Books of the Week

ABORTION AND THE LAW—David T. Smith, Ed.—Press of Western Reserve Univ., 237 p., $7. Contributions examine the question of abortion, both criminal and therapeutic, in a number of contexts with emphasis on the legal aspects involved.

ACHIEVEMENTS OF SCIENCE: Geophysics 1962—I. A. Khvostikov, transl. from Russian—I. P. S. T. (CFSTI), 130 p., paper, $4. Comprises reviews on physical, dynamical and synoptical meteorology, climatology, physics of the earth and prospective geophysics.

APPLIED UNDERWATER ACOUSTICS—D. G. Tucker and B. K. Gazey—Pergamon Press, 244 p., illus., paper, $4.50. Introduction to the fundamental principles of acoustics as applied in underwater detection and communication systems such as sonar and marine seismology.

ASTRONOMY IN SPACE—Homer E. Newell and others—NASA (GPO), 67 p., illus., paper, 45¢. Summarizes the U.S. space astronomy program, current research projects in solar, stellar and galactic astronomy.

ATMOSPHERE IN SPACE CABINS AND CLOSED ENVIRONMENTS—Karl Kammermeyer, Ed.—Appleton, 271 p., diagrams, $12. An attempt to bring together what is known about the life-sustaining facilities of space cabins, discussing physical and mechanical, biological, biochemical and medical factors.

THE AUDUBON NATURE ENCYCLOPEDIA, Vols. 1-12—John K. Terres, Ed.-in-Chief—National Audubon Soc. (Curtis Bks.) 2,392 p., photographs, paintings, drawings, $44.95; library ed. $54.50 (distrib. by Ferguson Pub. Co.). Reinforced library edition of 1965 encyclopedia, offers single source of authoritative information on nature subjects, alphabetically arranged, written popularly by well-known naturalists. Bibliographies and detailed index included.

DESALINATION BY REVERSE OSMOSIS—Ulrich Merten, Ed.—M.I.T. Press, 289 p., illus., $10. Describes the process, reviews past work on reverse-osmosis membranes, discusses the engineering problems that must be solved before large-scale operation can be undertaken, and describes the pilot plants now in operation.

ENGINES and How They Work—Geoffrey Boumphrey—Watts, F., 2nd ed., 256 p., llus. by S. J. Graham Browne, $6.95. Reprint (1960) with new chapter on engines of the future.

GENERAL ALARM: A Dramatic Account of Fires and Firefighting in America—Charles F. Haywood—Dodd, 297 p., photographs, $6.95. Deals with the evolution of the fire department, describes great historical fires and discusses causes and techniques for fighting special types of fires.

THE 1826 JOURNAL OF JOHN JAMES AUDUBON—Transcribed with introd. and notes by Alice Ford—Univ. of Okla. Press, 409 p., illus., $6.95. This journal is considered the most graphic and detailed of the Audubon journals, covering the nine months during which the author journeyed to England and Scotland in connection with the publication of THE BIRDS OF AMERICA.

PERSONALITIES AND CULTURES: Readings in Psychological Anthropology—Robert Hunt, Ed.—Natural History Press, 434 p., map, $8.50; paper, $2.50. Compilation of classic and of the most significant recent ethnographic work on personality and culture by some of the pioneers in the field.

PHILOSOPHY OF NATURAL SCIENCE—Carl G. Hempel—Prentice-Hall, 116 p., paper, $1.95. Deals in detail with a limited number of important issues in contemporary methodology such as criteria of confirmation and acceptibility, concept formation and theoretical reduction.

POTASSIUM ARGON DATING—O. A. Schaeffer and J. Zahringer, Eds.—Springer-Verlag N.Y., 234 p., illus., $10.60. Contributions by experts in the field deal with the method of the determination of radiogenic argon, potassium analysis, diffusion of argon in potassium-bearing solids, applications of K-Ar dating to tektites and meteorites.

PRINCIPLES OF COLOR TECHNOLOGY—Fred W. Billmeyer, Jr. and Max Saltzman—Interscience, 181 p., illus., $11.95. Introduces the basic principles of color science and technology in simple language, stressing their application in the production of colorants or the coloring of materials in industry.

THE PURSUIT OF SCIENCE IN REVOLUTIONARY AMERICA, 1735-1789—Brooke Hindle—Univ. of N.C. Press, 410 p., illus., paper, $2.95. Reprint (1956).

RECENT DEVELOPMENTS IN PARTICLE PHYSICS—Michael J. Moravcsik, Ed.—Gordon & Breach, 263 p., diagrams, paper, $15. Proceedings of the First Pacific International Summer School in Physics, August 1965.

REGULATION AND CONTROL IN LIVING SYSTEMS—H. Kalmus, Ed.—Wiley, 468 p., illus., $13.75. Attempts to bridge terminological and conceptual differences in communicating between control engineer and biologist in presenting physiological control systems, circadian regulation, control in the endocrine system, and regulation in animal societies and populations.

SCIENCE AND THE EDUCATED MAN: Selected Speeches—Julius A. Stratton, foreword by Elting E. Morison—M.I.T. Press, 186 p., $5. Deals with subjects such as physics and engineering in a free society, informed leadership, the scientist engineer, and institutional and personal experiences at M.I.T.

THE SENSES—Otto Lowenstein—Penguin Bks., 215 p., illus., paper, $1.25. Introductory study addressed to student biologist and layman, giving a condensed outline in essay form of how living organisms react to electromagnetic, mechanical and chemical stimuli.

SMITHSONIAN YEAR 1966: Annual Report —S. Dillon Ripley, Secy—Smithsonian Institution (GPO), 409 p., illus., paper, $1.75. Reports on research and physical developments, exhibits, publications, collections and the activities in the natural sciences, history and art sections of the institution.

SOCIAL COMMUNICATION AMONG PRIMATES—Stuart A. Altmann, Ed.—Univ. of Chicago Press, 392 p., plates, drawings, diagrams, $15. Reports on research from a variety of scientific disciplines studying reproductive behavior, agonistic behavior, causal mechanisms, social dynamics and communication processes in primates.
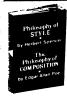
THE SOCIETY OF ARCUEIL: A View of French Science at the Time of Napoleon I—Maurice Crosland—Harvard Univ. Press, 514 p., plates, $15. A study of French science during a period of extraordinary scientific activity, examining the lives and achievements of the scientists, the conditions in which they worked and the influence they were to have.

THE STARS: A New Way to See Them—H. A. Rey—Houghton, 3rd ed., 160 p., illus., $6. Revision includes new planetary tables useful till 1975 and updated bibliography.

SYNANON: The Tunnel Back—Lewis Yablonsky—Penguin Bks., 408 p., paper, $1.95. Reprint (1965), tells about the experiment of a community of ex-drug addicts who help one another to achieve rehabilitation.

TECHNOLOGICAL INNOVATION: Its Environment and Management—Panel on Invention and Innovation, Robert A. Charpie, Chmn.—U.S. Dept. of Commerce (GPO), 83 p., paper, $1.25. Contains recommendations aimed at stimulating inventions and their effective exploitation.

VEGETATION MAPPING—A. W. Kuchler—Ronald, 472 p., diagrams, maps, $15. One-volume guide to the latest cartographic techniques and applications in specific scientific areas, as well as in certain agricultural, business and military activities, including up-to-date international bibliography.

VISUAL PRESENTATION OF INVISIBLE PROCESSES: How to Illustrate Invisible Processes in Graphic Design—Anton Stankowski—Hastings House, 126 p., photographs, designs, $16.50. Printed in Switzerland, this handsome volume presents the author's wide range of experimental and finished examples of the pictorial presentation of function, using analysis and symbols to translate message into graphic design.

Textbooks

CLASSICAL MECHANICS—J. W. Leech—Methuen (Barnes & Noble), 153 p., $2.75; paper, $1.50. Introductory account suitable for use in final year undergraduate and first-year graduate courses.

A COURSE IN PRACTICAL PHYSICS—D. W. Scott and K. W. Lyon—Cambridge Univ. Press, 227 p., illus., $3.50. A text on basic techniques of experimentation, with instructions for experiments stressing discovery and verification, experimental errors, investigations and estimations, and standard determinations. Teacher's Guide available for 75¢.

GEOLOGY OF PETROLEUM—A. I. Levorsen—Freeman, 2nd ed., 724 p., diagrams, maps, $12.50 Updated standard text and reference work emphasizes the principles employed in the discovery of petroleum deposits rather than description of oil pools or techniques of exploration.