

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

ALCOHOLISM: The Nutritional Approach—Roger J. Williams—*Univ. of Texas Press*, 118 p., \$2.50. Dr. Williams, a biochemist, treats alcoholism as a physical disease. Usually caused by a deranged cellular metabolism, it is the result of some unsatisfied nutritional need. The author suggests nutritional means to help alcoholics to remain abstinent.

APPLIED HYDRODYNAMICS—H. R. Vallentine—*Butterworths (Canada)*, 272 p., \$10. Introductory course to hydrodynamics for students of applied mathematics or as a course in fluid dynamics for graduate students of engineering.

AUTOMATION, CYBERNETICS AND SOCIETY—F. H. George—*Philosophical Lib.*, 283 p., illus., \$12. Presents the facts and organizational aspects of automation, then discusses some of the social changes which scientific planning will bring. For the general reader.

THE CANTERBURY PUZZLES and Other Curious Problems—Henry Ernest Dudeney—*Dover*, new ed., 255 p., illus., paper, \$1.25. Reprint of 4th edition with note on British coins and stamps added for the American reader.

DISCOVERING THE HEAVENS: A Junior History of Astronomy—I. O. Evans, foreword by Patrick Moore—*Roy Pubs.*, 208 p., illus. by Patricia A. Cullen, \$3.50. Tells young people the story of man's discoveries about his universe from the time of Stonehenge to the twentieth century with its artificial moons. Bibliography included.

EDUCATORS GUIDE TO FREE FILMS—Mary

Foley Horkheimer and John W. Diffor, Eds.—*Educators Progressive Service*, 19th ed., 649 p., paper, \$7. Lists 4,223 free film titles with short descriptions, includes subject and source index, features article by John Guy Fowlkes on "Audio-Visual Media in School Improvement."

ELECTRICITY MADE SIMPLE—Henry Jacobowitz—*Made Simple Bks. (Garden City Bks.)*, 190 p., illus., paper, \$1. Written for self study, includes 25 basic experiments that can be done at home.

GRASSLANDS—Delia Goetz—*Morrow*, 64 p., illus., by Louis Darling, \$2.75. Introduces the young reader to the plants and animals of the vast prairies, steppes, pampas and savannas of the world.

HIGHER EDUCATION IN THE USSR—Prof. Vyacheslav Yelyutin—*Intl. Arts & Sciences Press*, 55 p., illus., paper, \$1. The Minister of Higher Education of the USSR writes about the aims and general organization of Soviet universities and institutes.

INTERMEDIATE ALGEBRA AND ANALYTIC GEOMETRY MADE SIMPLE—William R. Gordon, practice exercises and answers by Bernard Sohm—*Made Simple Bks. (Garden City Bks.)*, 192 p., paper, \$1.50. For self-study and review, presents mathematics as a way of thinking which lends itself to abbreviated treatment.

MANUAL OF SCIENTIFIC RUSSIAN—Thomas F. Wagner—*Prentice Hall*, 101 p., paper, \$3.95. Textbook seeking to develop rapidly an ability to read involved Russian texts.

MOLECULES AND MENTAL HEALTH—Frederic A. Gibbs, Ed.—*Lippincott for the Brain Research Foundation*, 189 p., illus., \$4.75. Discussions of drug treatment of the brain which "thinks, sees, hears and, most important, understands because of chemical processes that are going on continuously in the 10 billion chemical machines (nerve cells) which populate the universe between our ears."

THE NATIONAL FORESTS—Arthur H. Carhart, introd. by Joseph W. Penfold—*Knopf*, 298 p., illus., \$4.75. A naturalist takes the reader through some of the 180,000,000 acres of U.S. National Forests which were set aside to pro-

duce public timber and protect our vital watersheds.

THE NEXT TEN YEARS IN SPACE, 1959-1969: Staff Report—Select Committee on Astronautics and Space Exploration—*Govt. Print. Off.*, 221 p., illus., paper, 60¢. Summary of the thinking of the leading scientists, engineers, industrialists, military officials and Government administrators concerned with our national space program.

PRINCIPLES OF ORGANIC CHEMISTRY—T. A. Geissman—*Freeman*, 635 p., illus. by Roger Hayward, \$7. Introductory course, presenting theory as an integral part of the behavior of organic compounds.

THE PURSUIT OF THE ATOM—Werner Braunk, transl. from German by Brian J. Kenworthy and W. A. Coupe—*Emerson Bks.*, 242 p., \$3.95. An account of the world-wide researches that led by varied routes to our present knowledge of the atom and of the individual scientists whose contributions made that knowledge possible.

THE RELATION OF FUNGI TO HUMAN AFFAIRS—William D. Gray—*Holt*, 510 p., illus., \$8.50. Textbook emphasizes the useful side of fungus activity in such fields as medicine, alcoholic fermentation, food processing and the manufacture of drugs. In conclusion the harmful activities are examined. Four courses in applied mycology and for general reference.

SCIENCE, MEDICINE AND MORALS: A Survey and a Suggestion—Charles E. Raven—*Harper*, 189 p., \$3.50. Traces the interacting influence of science and philosophy from Greek cosmology to modern physics in language the layman can understand.

THE SENSE OF MUSIC—Victor Zuckerkandl—*Princeton Univ. Press*, 246 p., 32 p. of scores, \$6. This book addresses itself to the alert mind that is not satisfied with "blind" musical experience. In an original way it helps the listener to understand the why and how of melody, key, meter, rhythm, polyphony and harmony.

SPACE PROPULSION: Hearings—U. S. Congress, House Committee on Science and Astronautics, 307 p., illus., paper, single copies free upon request direct to Committee, Washington 25, D. C. Transcript of statements on recent advances in space propulsion by leaders of the industry.

TRAFFIC ACCIDENT STUDIES 1958—Bruce D. Greenshields and others—*Highway Res. Bd.*, Bull. 208, 83 p., illus., paper, \$1.60. Statistical and economic evaluation of traffic accidents, techniques for predicting traffic accidents, and sampling procedures for determining speed characteristics.

THE TWENTY-MINUTE LIFETIME: A Guide to Career Planning—Gavin A. Pitt, Richard W. Smith, Asst.—*Prentice-Hall*, 178 p., \$1.95. Helps orient the college graduate about careers in education, government, industry and the professions, to prepare him better for his employment interview.

X-RAY DIFFRACTION BY ASSEMBLAGES OF LINE SCATTERERS WITH APPLICATION TO LINEAR POLYMERS—Leroy E. Alexander and E. R. Michalik—*Mellon Institute*, 5 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

Science News Letter, August 8, 1959

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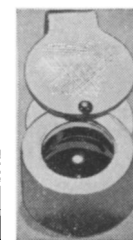
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