

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.

ADVANCES IN GEOPHYSICS: Volume 3—H. E. Landsberg, Ed.—*Academic*, 378 p., illus., \$8.80. Included among the interesting topics discussed in this volume are Arctic ice island research and geophysical research with artificial earth satellites.

ADVANCES IN VIRUS RESEARCH: Volume IV—Kenneth M. Smith and Max A. Lauffer, Eds.—*Academic*, 340 p., illus., \$8.00. Contributions by nine leaders in the field from the United States and England.

ANALYSIS OF AIR NEAR HEAVY TRAFFIC ARTERIES—N. A. Renzetti—*Air Pollution Foundation*, Report No. 16, 29 p., illus., paper, \$1.50. Reporting a study intended to show the effect of automobile exhaust gas on the formation of smog.

ANATOMICAL ATLAS—Maud Jepson—*Rinehart*, 25 p., illus., paper, 95 cents. A series of well-labeled, clear diagrams especially for those who have had little or no biological training.

ATOMIC ENERGY COMMISSION TWENTY-FIRST SEMI-ANNUAL REPORT—Lewis L. Strauss, Chairman—*Govt. Printing Office*, 396 p., illus., paper, \$1.25. Reporting "substantial progress" during the last six months of 1956.

AUDUBON WESTERN BIRD GUIDE: Land, Water, and Game Birds of Western North America, Including Alaska, From Mexico to Bering Strait and the Arctic Ocean—Richard H. Pough—*Doubleday*, Sponsored by National Audubon Society, 316 p., illus., by Don Eckelberry and Terry M. Shortt, \$5.95. A convenient-sized handbook for use at home and in the field.

THE BIRD BIOGRAPHIES OF JOHN JAMES AUDUBON—Selected and Edited by Alice Ford—*Macmillan*, 282 p., illus., \$10.00. It is more than 100 years since these biographies were first published. They are here illustrated by Audubon's original drawings, not the familiar engravings.

BONES FOR THE ARCHAEOLOGIST—I. W. Cornwall—*Macmillan*, 255 p., illus., \$7.50. Basic information to help the archaeologist identify the bone material, both animal and human, that he finds without having to call in other specialists.

CONTRIBUTIONS TO THE FLORA OF VENEZUELA—Julian A. Steyermark and collaborators—*Chicago Natural History Museum*, Fieldiana: Botany, Volume 28, Number 4, 522 p., illus., paper, \$7.50.

DISSECTION GUIDES: 1. The Frog, 2. The Dogfish, 3. The Rat (With Notes on the Mouse), 4. The Rabbit, 5. Invertebrates—H. G. Q. Rowett—*Rinehart*, illus., paper, 95 cents each. Intended to aid dissection visually with the minimum of written instruction.

DRUGS IN CURRENT USE 1957—Walter Modell, Ed.—*Springer*, 152 p., paper, \$2.00. The third volume of an annual publication providing an alphabetical listing of common drugs with a brief statement of their characteristics and uses.

THE ENJOYMENT OF MATHEMATICS: Selections from Mathematics for the Amateur—Hans Rademacher and Otto Toeplitz—*Princeton University Press*, 204 p., illus., \$4.50. Based on the belief that the number of people able to understand simple mathematical ideas is as great as the number who can appreciate music.

EXPERIMENTS WITH A MICROSCOPE—Nelson F. Beeler and Franklyn M. Branley—*Crowell*, 154 p., illus., \$2.75. Telling the beginner with a

microscope how to use it and what he can hope to see with it.

THE FIRST BOOK OF NEW ENGLAND—Louise Dickinson Rich—*Franklin Watts*, 61 p., illus., by Leonard Everett Fisher, \$1.95. A book for young people about our New England heritage.

FLEXIBLE PAVEMENT DESIGN IN FOUR STATES—Allan Lee and others—*Highway Research Board*, Bulletin 136, 58 p., illus., paper, \$1.00. Reporting experience with this type of pavement in Maryland, Colorado, Alabama and Washington.

FREQUENCY-MODULATED RADIO: An Introduction to the Theory, Design, Construction and Servicing of VHF/FM Receivers—K. R. Sturley—*Macmillan*, 120 p., illus., \$3.00. The head of the BBC engineering training department writes this book for technicians and amateurs.

GREAT ESSAYS IN SCIENCE—Martin Gardner, Ed.—*Pocket Library*, 408 p., illus., paper, 35 cents. Not intended to teach science, but to "spread before the reader a sumptuous feast of great writing" selected from such authors as Darwin, Fabre, Eddington, Maeterlinck, Wells, Freud and Einstein.

HIGH TEMPERATURE: A TOOL FOR THE FUTURE: Proceedings of the Symposium, Berkeley, California, June 25, 26, 27, 1956—Joseph Farber and others—*Stanford Research Institute*, 218 p., illus., \$5.00. Learning to cope with high temperatures is essential to success in the field of high-speed aircraft, missiles and rockets.

HOW TO KNOW THE MINERALS AND ROCKS—Richard M. Pearl—*New American Library*, 192 p., illus., paper, 50 cents. This convenient handbook contains a wealth of information for the collector. Includes color plates to aid identification.

HUMAN AND ANIMAL ECOLOGY: Reviews of Research—Regina Rochefort and others—*UNESCO (Columbia University Press)*, Arid Zone Research VIII, 244 p., illus., \$6.00. Some of the papers are in French, and these are summarized in English.

HYPNOSIS IN MEDICINE—A. Philip Magonet, foreword by Melvin Powers—*Wilshire Book Co.*, 104 p., paper, \$1.00. This little book, correcting some misunderstandings about hypnosis, was written to encourage physicians and medical students to explore this field for possible usefulness in their practice.

THE IMPORTANCE OF OVERWEIGHT—Hilde Bruch—*Norton*, 438 p., illus., \$5.95. The author disputes the "simple" idea that obesity is caused by overeating. Overeating, she says, is not the cause, it is a symptom of an underlying disturbance. She has made a long study of why fat people, in spite of all the pressure to reform them, insist on staying fat.

MAN AND SOCIETY: The Basic Teachings of Sociology—Samuel Koenig—*Barnes & Noble*, 339 p., illus., paper, \$1.45. Presenting an introduction not only to the science of sociology but to the personalities who formed, shaped and advanced it.

MEDIAN DESIGN: Effect on Traffic Behavior—C. E. Billion and Fred W. Hurd—*Highway Research Board*, Bulletin 137, 26 p., illus., paper, 60 cents. Report showing that barriers placed down the middle of high-speed highways to prevent head-on collisions sometimes are themselves responsible for accidents.

MENTAL ILLNESS: A Guide for the Family—

Edith M. Stern—*National Association for Mental Health*, rev. ed., 95 p., paper, 50 cents. Dealing with such topics as how to choose a hospital and get the patient into it, how to handle visits and letters, and how to deal with the patient on his return home.

MICE AT HOME AND AFIELD—Olive L. Earle, author and illustrator—*Morrow*, 64 p., illus., \$2.25. Information for children about a common animal that may be either pest or pet.

THE NEW REVOLUTION IN THE COTTON ECONOMY: Mechanization and Its Consequences—James H. Street—*University of North Carolina Press*, 294 p., illus., \$5.00. Although there have been efforts in past years to introduce mechanical cotton pickers, they were not successful. Now, however, there are more than 18,000 mechanical cotton harvesters and 23,000 strippers in use so that one-fourth of the crop is mechanically harvested.

THE OPEN SEA: Its Natural History; The World of Plankton—Alister C. Hardy—*Houghton Mifflin*, 335 p., illus., \$6.50. A non-technical account for the general reader of the teeming world of plankton, and also a guide for university students beginning the study of marine biology.

A PSYCHIATRIC GLOSSARY: The Meaning of Words Most Frequently Used in Psychiatry—Committee on Public Information, American Psychiatric Association—*American Psychiatric Association (Mental Health Materials Center)*, 48 p., paper, \$1.00. Authoritative definitions of terms from "abreaction" to "word salad." Brief biographical notes on famous psychiatrists are included.

THE RADIO AMATEUR'S HANDBOOK—Headquarters Staff of the American Radio Relay League—*American Radio Relay League*, 34th ed., 1957, 576 p., plus tube data, illus., paper, \$3.50, plus postage. A new edition of this handbook for "hams."

SEDIMENTARY ROCKS—F. J. Pettijohn—*Harper*, 2d ed., 718 p., illus., \$12.00. Treating not the processes of sedimentation but the rocks that result.

SMOKING AND ITS EFFECTS: With Special Reference to Lung Cancer—Sidney Russ—*Macmillan*, 144 p., illus., \$1.95. A book for laymen by an English author indicating that the case against smoking as a cancer cause is "not proven."

SPECIFICATIONS FOR PESTICIDES: Insecticides, Rodenticides, Molluscicides, and Spraying and Dusting Apparatus—WHO Expert Committee on Insecticides—*World Health Organization (Columbia University Press)*, 400 p., \$8.00. Replacing an earlier work published in 1953 in loose-leaf binder.

TELEVISION FACTBOOK SPRING-SUMMER, 1957—*Television Digest*, No. 24, 480 p., paper, \$4.50 plus postage. The world now has 845 TV stations and 56,000,000 TV sets. U. S. stations number 496 and those of the eight Iron Curtain countries have a total of 50.

TRANSISTOR MANUAL: Applications, Circuits, Specifications—*General Electric, Semiconductor Products*, 61 p., illus., paper, 50 cents. Information on basic semiconductor theory and practical information for the service technician, hobbyist and design engineer with transistors.

VENOMS: Papers Presented at the First International Conference on Venoms, December 27-30, 1954, at the Annual Meeting of the American Association for the Advancement of Science, Berkeley, California—Eleanor E. Buckley and Nandor Porges, Eds.—*American Association for the Advancement of Science*, Publication No. 44, 467 p., illus., \$9.50.

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