

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.

AIRCRAFT COMMUNICATION SYSTEMS—J. H. H. Grover—*Philosophical Lib.*, 127 p., illus., \$6. For the British student and flight radio operator; includes section on American equipment.

AVALANCHE—Joseph Wechsberg—*Knopf*, 254 p., maps, \$4. Reporter tells the story of the 1954 disaster when snow covered the Alpine village of Blons, Austria.

BEHAVIOR AND PSYCHOLOGICAL MAN: Essays in Motivation and Learning—Edward Chace Tolman—*Univ. of Calif. Press*, new ed., 269 p., illus., paper, \$1.95. Collection of papers presented between 1922 and 1948.

THE BIOLOGICAL REPLICATION OF MACROMOLECULES—G. Pontecorvo and others—*Academic*, 255 p., illus., \$9.50. Symposium No. XII of the Society for Experimental Biology.

BONE AND RADIOSTRONTIUM—Arne Engström, Rolf Björnerstedt, Carl-Johan Clemensson and Arne Nelson—*Wiley*, 139 p., illus., \$8.75. Much of the work described has been performed at the Dept. of Medical Physics at Karolinska Institutet, Stockholm, Sweden.

A CENTURY OF DARWIN—S. A. Barnett, Ed.—*Harvard Univ. Press*, 376 p., illus., \$5.75. Fifteen authors of international repute survey not only the Darwinian theory of evolution but also show Darwin as a biologist of extraordinary penetration, industry and scope.

DECISION FOR RESEARCH—*Am. Heart Assn.* with E. R. Squibb & Sons, 7 p., illus., paper, 10¢, free for students and teachers, request direct from publisher, 44 E. 23rd St., New York 10, N. Y. Urges science-minded teen-agers to take stock now and consider whether or not they are cut out for research careers.

DURBAN: A Study in Racial Ecology—Leo Kuper, Hilstan Watts and Ronald Davies, introd. by Alan Paton—*Columbia Univ. Press*, 254 p., illus., \$3.75. Analyzing the historical, economic, political, religious, social and legal aspects

of residential segregation in Durban, Union of South Africa.

ELECTRIC MACHINERY: A Coordinated Presentation of A-C and D-C Machines—Clifford C. Carr—*Wiley*, 537 p., illus., \$9.25. Text treats both A-C and D-C machines as an integrated subject, emphasizing energy conversion.

THE FERTILITY OF AMERICAN WOMEN—Wilson H. Grabill, Clyde V. Kiser and Pascal K. Whelpton—*Wiley* for Social Science Res. Council in co-op. with U. S. Bureau of the Census, 448 p., illus., \$9.50. Traces reproduction trends in the U. S. since colonial times.

GOING ON TEN: Book Four of the Basic Health and Safety Program—W.W. Bauer, Dorothy W. Baruch, Elizabeth R. Montgomery and Elenore T. Pounds—*Scott*, 226 p., drawings by Helen Carter, \$1.92. A fourth grade textbook.

INTERNATIONAL CODE OF NOMENCLATURE OF BACTERIA AND VIRUSES: Bacteriological Code—Editorial Board, International Committee on Bacteriological Nomenclature—*Iowa State College Press*, 186 p., \$3.50. To further the use of correct names of the microorganisms.

INTRODUCTION TO A STUDY OF MECHANICAL VIBRATION—G. W. Van Santen, foreword by B. E. Noltingk—*Macmillan*, 2nd rev. ed., 310 p., illus., \$8.50. Treats that border line subject where mechanics meets acoustics.

AN INTRODUCTION TO MATHEMATICS—Alfred North Whitehead—*Oxford Univ. Press.*, new ed., 191 p., illus., paper, \$1.50. First published in 1911.

MARCH 1957 MEDICAL SURVEY OF RONGELAP AND UTRIK PEOPLE THREE YEARS AFTER EXPOSURE TO RADIOACTIVE FALLOUT—Robert A. Conrad and others—*Bookhaven Nat. Lab. (Office of Technical Services)*, 26 p., illus., paper, \$1. Discusses acute, subacute and late effects.

MATHEMATICS AND LOGIC FOR DIGITAL DEVICES—James T. Culbertson—*Van Nostrand*, 224 p., illus., \$4.85. A course in the kind of mathematical reasoning essential to the use of computers.

MINERALS YEARBOOK 1956, Vol. II: Fuels—U.S. Bureau of Mines—*Govt. Printing Office*, 452 p., \$2.50. Minerals-fuel review chapter summarizes developments in the fuel industries, followed by commodity reviews.

NUCLEAR REACTOR METALLURGY—Walter D. Wilkinson, William F. Murphy and Warren J. McGonnagle—*Van Nostrand*, 382 p., illus., \$5.60. Treatment is descriptive and qualitative, assumes no previous training in metallurgy.

THE PHYSICAL THEORY OF NEUTRON CHAIN REACTORS—Alvin M. Weinberg and Eugene P. Wigner—*Univ. of Chicago Press*, 801 p., \$15. A scholarly, unified account of nuclear reactor physics.

POLAROGRAPHIC ESTIMATION OF THIOPHENES AND AROMATIC SULFIDES IN PETROLEUM—Harry V. Drushel and James F. Miller—*Mellon Institute*, 10 p., graphs, paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

PRINCIPLES AND APPLICATIONS OF RANDOM NOISE THEORY—Julius S. Bendat—*Wiley*, 431 p., \$11. For students of statistical communication theory, systems analysis, automatic control, meteorology, radar, and other fields.

THE PUBLIC IMPACT OF SCIENCE IN THE MASS MEDIA—Robert C. Davis—*Survey Res. Center, Univ. of Mich.*, 254 p., paper, \$3.50. Report on a nation-wide survey for the National Association of Science Writers. See SNL p.

READINGS IN MEDICAL CARE—Willard C. Rappleye and others, foreword by George Packer Berry—*Univ. of N. C. Press*, 708 p., \$6.50. Edited by Committee on Medical Care Teaching of the Ass'n of Teachers of Preventive Medicine. Textbook recording changes in the patterns of organization of medical care and health service.

SCIENCE IN A TAVERN: Essays and Diversions on Science in the Making—Charles S. Slichter—*Univ. of Wis. Press*, 2nd ed., 206 p., paper, \$1. Collection of Dean Slichter's commemorative addresses.

SCRIPTA MATHEMATICA: Memorial Issue 1957—Abe Gelbart, Ed.—*Yeshiva Univ.*, 236 p., illus., paper, \$4. Combines 4 quarterly issues in commemoration of its late founder and editor for 25 years, Jekuthiel Ginsburg.

SEVENTH AGARD GENERAL ASSEMBLY: Proceedings—T. von Karman, Chairman—*Advisory Group for Aeronautical Research and Development*, 102 p. illus., paper, single copies free upon request direct to NACA, 1512 H Street, NW, Washington 25, D. C. Includes Round Table discussion "Toward Higher Altitude".

SOONAR MOONI: The Life of an Indian Elephant—E. O. Shebbeare, introd. by the Rt. Hon. Richard Casey—*Houghton*, 202 p., illus. by author, \$3.50. The author spent more than forty years in the Indian Forest Service and Malaya in wild elephant country.

STROKES: A Guide for the Family—*Am. Heart Ass'n*, 18 p., illus., paper, free upon request direct to publisher, 44 E. 23rd St., New York 10, N. Y.

THEORY OF ELECTRICAL MACHINES—W. S. Wood—*Butterworth & Co. (Canada)*, 317 p., illus., \$10. Suitable for senior electrical engineering students.

VINYL RESINS—W. Mayo Smith—*Reinhold*, 282 p., illus., \$5.75. Describes types and applications of this most versatile and largest selling family of plastics.

WHITETAIL: The Story of a Prairie Dog—Rutherford G. Montgomery—*World Pub. Co.*, illus. by Marie Nonnast, 64 p., \$2.50. For the young reader.

WILD FOLK IN THE DESERT—Carroll Lane Fenton and Evelyn Carswell—*Day*, 128 p., illus. by C. L. Fenton, \$3.50. Shows how plants and animals manage to prosper in the arid regions of the U. S. West.

WILDLIFE OF THE INTERMOUNTAIN WEST—Charles Yocom, Vinson Brown and Aldine Starbuck—*Naturegraph*, 144 p., illus., paper, \$2.50. Helps you identify the plants and animals of the region between the Northern Rockies and the Mohave Desert.

ZOO HUNT IN CEYLON—Heinz Randow, transl. from German by Charles Johnson—*Doubleday*, 230 p., illus., \$4. Tells how author went about capturing rare animals in southern India.

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The aurora is generally thought to be produced when protons expelled from the sun enter the upper atmosphere, exciting the gases there to luminosity.

A small window, inserted into the head of experimental monkeys, has allowed physicians to watch anti-coagulant drugs ward off stoppages in brain arteries.

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