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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.

ALTERNATING-CURRENT MACHINES - A. F. Puchstein, T. C. Lloyd and A. G. Conrad—Wiley, 3d ed., 721 p., illus., \$8.50. A text for engineering students with a method of presentation designed to save time.

THE ALUMINUM DATA BOOK-G. W. Birdsall, Ed.—Reynolds Metals Company, 220 p., illus., paper, ring binding, \$1.00. Technical information about the metal and its alloys.

THE CONTRIBUTION OF ATOMIC ENERGY TO MEDICINE: Hearings before the Subcommittee on Research and Development of the Joint Committee on Atomic Energy—Carl Hinshaw, Chairman—Govt. Printing Office, 194 p., illus., paper, 55 cents.

Directory of International Scientific Organizations—UNESCO (Columbia University Press), 2d ed., 312 p., paper, \$2.50. Listing 264 organizations devoted to the basic sciences, applied science, engineering and other fields of particular interest to scientists.

DISCOVER THE STARS: A Beginner's Guide to the Science of Astronomy, Illustrated with 10 Astronomical Photographs and 41 Additional Explanatory Drawings—Gaylord Johnson revised with additions by Irving Adler—Sentinel Books, 130 p., illus., paper, 75 cents. Telling the young hobbyist how to make a simple planetarium, sundial and other astronomical instruments to aid him in the study of the stars.

Doctor to the Islands-Tom and Lydia -Atlantic Monthly-Little, Brown, 331 p., illus., \$5.00. Readable story of the adventures of a medical officer on Rarotonga, one of the Cook Islands in the Pacific, and his wife.

The Drama of Albert Einstein-Vallentin, translated by Moura Budberg— Doubleday, 312 p., illus., \$3.95. The author of this very human story of Einstein's life is Polish born and a personal friend of Albert Einstein. Her home is in Paris. She has made a specialty of biographies of men of genius.

Enameling for Fun and Profit-Mary Larom—David McKay, 96 p., illus., \$3.00. A clearly written how-to-do-it book introducing a pleasant hobby for those with artistic inclinations.

INSTRUMENTATION: Government-Owned Inventions Available for License—Archie M. Palmer, Chairman—Govt. Printing Office, PB 111464, 65 p., paper, \$2.00. Abstracts of patents relating to laboratory, scientific and engineering instruments.

A Low-Cost Sampler for Measurement of Low Concentration of Hydrogen Sulfide-J. Deane Sensenbaugh and W. C. L. Hemeon-Mellon Institute, 4 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. Hydrogen sulfide is an air pollutant that causes tarnishing of silverware and the blackening of lead paint.

A New Apparatus for the Partitioning of Palm, Kenneth M. Cook, Jack H. U. Brown and Theodore Hatch—Mellon Institute, 4 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. Describing a mechanical respirator with synchronized respiratory partitioning valve for research on guinea pigs.

Notes on the Ant Novomessor Manni Wheeler and Creighton—Paul B. Kannowski -University of Michigan Press, 6 p., paper, 10 cents.

NUTRITION UNDER CLIMATIC STRESS: A Symposium Sponsored by the Quartermaster Food and Container Institute for the Armed Forces, Quartermaster Research and Development Command, U. S. Army Quartermaster Corps, National Academy of Sciences, Washington, December 4-5, 1952—Harry Spector and Martin S. Peterson, Eds.—Quartermaster Food and Container Institute for the Armed Forces, 203 p., illus., paper, free upon request to publisher, 1819 West Pershing Road, Chicago 9, Ill.

PUBLIC ADMINISTRATION ORGANIZATIONS: A Directory of Unofficial Organizations in the Field of Public Administration in the United States and Canada 1954—Herbert Emmerich, Director — Public Administration Clearing Clearing House, 7th ed., 150 p., \$2.50. Describing over 500 national organizations.

ROTATING ELECTRICAL MACHINERY — Crow Electri-Craft, 256 p., illus., paper, \$3.50. Adapted from a manual used in the Navy's "Common-Core" training program for electrical and electronic technicians.

SCHOOL FACILITIES FOR SCIENCE INSTRUCTION -John S. Richardson, Ed.—National Science Teachers Association, 266 p., illus., \$5.50. rected to those who have responsibility for planning and teaching, particularly school administrators, science supervisors and science teachers.

Science and Civilisation in China: Volume I, Introductory Orientations-Joseph Needham with the research assistance of Wang Ling
—Cambridge University Press, 318 p., illus.,
\$10.00. Tracing the early beginnings of science in China and the first interchanges of ideas between China and the West.

Science Far and Near-Herman and Nina Schneider—Heath, 279 p., illus., \$2.20. Telling third graders about the interesting world in which we live. Beautifully illustrated in color, and with many experiments.

STABILIZED TURF SHOULDERS—Fred Burggraf and W. J. Miller, Eds.—National Academy of Sciences-National Research Council, Highway Research Board Special Report 19, 13 p., illus., paper, 30 cents. The cost of a stable turf paper, 30 cents. The cost of a stable turf shoulder is much less than that of most other stable shoulders.

STATISTICS OF SPECIAL EDUCATION FOR EX-CEPTIONAL CHILDREN 1952-53—Mabel C. Rice and Arthur S. Hill—Govt. Printing Office, Chapter 5, Biennial Survey of Education in the United States, 1952-54, 78 p., paper, 30 cents. Based on information from 4,966 returned questionnaires.

STUDYING AND LEARNING—Max Meenes— Doubleday, Doubleday Papers in Psychology, 68 p., paper, 95 cents. A helpful book especially for college students.

VARIABLES IN MONTHLY DUST FALL MEAS-UREMENTS-J. Deane Sensenbaugh and W. C. L. Hemeon-Mellon Institute, 6 p., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. The fall varies from a low of five tons per square mile per month in summer in suburban areas to a high of 125 tons in winter near industrial areas.

Science News Letter, August 21, 1954

The earth's diameter is 7,927 miles.