

# 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.

**THE ATOMIC NUCLEUS**—Robley D. Evans—*McGraw-Hill*, 972 p., illus., \$14.50. A standard text in fundamental nuclear physics for college graduate students.

**CYBERNETICS: Circular Causal and Feedback Mechanisms in Biological and Social Systems**—Heinz Von Foerster, Ed.—*Josiah Macy, Jr. Foundation*, 100 p., illus., \$2.75. Transactions of a conference held in Princeton, N. J., April, 1953.

**HIGHWAY RESEARCH BOARD: Proceedings of the Thirty-Fourth Annual Meeting**, Washington, D. C., January 11-14, 1955—Fred Burggraf, Elmer M. Ward and Walter J. Miller, Eds.—*Highway Research Board*, 648 p., illus., \$8.50.

**INFRARED AND ULTRAVIOLET PHOTOGRAPHY**—*Eastman Kodak Co.*, revised ed., 48 p., illus., paper, 50 cents. This edition has been expanded to include sections on infrared motion picture photography and on new ultraviolet light sources.

**AN INTRODUCTION TO BOTANY**—Arthur W. Haupt—*McGraw-Hill*, 3rd ed., 447 p., illus., \$5.50. Basic facts and principles concerning plants that are essential to an understanding of their structure, functions, life relations and evolution.

**IONIZED GASES**—A. von Engel—*Oxford University Press*, 281 p., illus., \$6.75. Emphasizing fundamental concepts and limitations of the various treatments.

**THE NEW BASIC SCIENCE**—J. Darrell Barnard and Lon Edwards—*Macmillan*, 632 p., illus., \$4.20. A revision of the textbook, *Basic Science*, introducing science to young people.

**OXFORD HOME ATLAS OF THE WORLD: Being the Oxford School Atlas in a General Edition**—Prepared by the Cartographic Department of the Clarendon Press—*Oxford University Press*,

135 p., illus., \$2.40. A new technique portrays mountains and other physical features in a three-dimensional effect. A handy size for your desk or home library.

**PERSONAL INFLUENCE: The Part Played by People in the Flow of Mass Communications**—Elihu Katz and Paul F. Lazarsfeld—*Free Press*, 400 p., \$6.00. A report of the Bureau of Applied Social Research, Columbia University, which points out the fact that personal influence is, at times, more significant than influences stemming from the mass media.

**PRINCIPLES OF PHYSICAL METALLURGY**—Morton C. Smith—*Harper*, 417 p., illus., \$6.00. To help the metallurgist develop a fundamental understanding of metal behavior and a real facility in using the reference literature of his science.

**THE ROCKEFELLER FOUNDATION ANNUAL REPORT, 1954**—Dean Rusk, president—*Rockefeller Foundation*, 439 p., illus., paper, free upon request direct to publisher, 49 West 49th St., New York, N. Y. Reporting the expenditure of \$19,107,665, of which over five million dollars was devoted to work in medicine and public health.

**SCIENCE AND ENGINEERING IN AMERICAN INDUSTRY: Preliminary Report on a Survey of Research and Development Costs and Personnel in 1953-1954**—Prepared for the National Science Foundation by the U. S. Department of Labor, Bureau of Labor Statistics—*Govt. Printing Office*, 41 p., paper, 30 cents. The survey of research and development in private industry, on which this is a preliminary report, was initiated by the National Science Foundation to provide information needed in developing and recommending policies to strengthen the nation's scientific research effort.

**SCIENCE AND MODERN LIFE**—Sir E. John Russell—*Philosophical Library*, 101 p., \$2.75. Discussing problems arising out of the impact of science and technology on daily life, for the solution of which, according to the author, science alone is insufficient.

**THE SCIENCE IN ACTION TV LIBRARY: Volume I**—Benjamin Draper, Ed.—*California Academy of Sciences and Merlin Press*, 157 p., illus., \$3.50. Containing scripts of the TV program "Science in Action" produced by the California Academy of Sciences, and including a discussion of production problems of this type of program.

**TRAVELS AND TRADITIONS OF WATERFOWL**—H. Albert Hochbaum—*University of Minnesota Press*, 301 p., illus., \$5.00. Presenting the author's views on the "tradition" aspect of migration, as well as a review of much of the literature, and questioning some of the theories currently held.

**WHAT CAN HAPPEN TO PLUMBING: And How to Prevent It**—*National Association of Plumbing Contractors*, 18 p., illus., paper, single copies free from request direct to publisher, 1016 20th St., N. W., Washington 6, D. C. Clearly illustrated directions for first aid to ailing plumbing and also explanations of what can go wrong that you should not attempt to fix yourself.

**WORLD COMMERCE AND GOVERNMENTS: Trends and Outlook**—W. S. Woytinsky and E. S. Woytinsky—*Twentieth Century Fund*, 907 p., illus., \$10.00. Outlining the current changes in commerce, especially foreign trade,

transportation, and the political and financial organization of nations. A companion report to the study of *World Population and Production*. (See SNL, Nov. 28, 1953, p. 348.)

**YOU AND THE ATOM**—Gerald Wendt with a preface by Luther H. Evans—*Whiteside*, 95 p., illus., \$1.95. Telling of the beneficial and constructive uses of the atom-for-peace and of the prospects for the future. Originally published by UNESCO under title *Nuclear Energy and Its Uses in Peace*. (See SNL, Sept. 10, 1955, p. 172.)

Science News Letter, January 21, 1956

## WILDLIFE

### Census Taken of Wintering Waterfowl

► THE U. S. GOVERNMENT has finished counting heads in another census.

The count was the annual winter inventory of migratory waterfowl involving a survey from ground and air in every known wintering area from southern Canada to southern Mexico. More than 2,200 state and federal experts helped to make the survey, using 146 airplanes for aerial observation as well as the vehicles employed in the ground survey.

The planes fly low enough to determine the species of birds seen, but not low enough to frighten them, the U. S. Fish and Wildlife Service reports. Since waterfowl do very little moving around in mid-winter, the chances of counting the same birds in more than one place are considered small.

The annual survey is of considerable value in showing the winter distribution of waterfowl and shifts in their location from the effects of land and water management, the FWS said. Information gathered from the surveys shows numerical trends in waterfowl population and indicates what steps need to be taken in management as changes are noted.

The survey, conducted from Jan. 3 to 16, was the eighth "comparable" winter census in a row.

Science News Letter, January 21, 1956

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