

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.

AUTOMATION AND OTHER TECHNOLOGICAL ADVANCES—*American Management Association*, 55 p., paper, \$1.25. Papers on Developments in Automation, Radioactive Isotopes in Industry, and Materials Substitution.

BENJAMIN BRITTEN: A Commentary on His Works from a Group of Specialists—Donald Mitchell and Hans Keller, Eds.—*Philosophical Library*, 410 p., illus., \$7.50. For those interested in the appreciation of contemporary music, this covers the career and works of the composer of "Peter Grimes."

CACTI AND SUCCULENTS—G. Gilbert Green—*Pitman*, 238 p., illus., \$7.00. Describes, classifies and gives information on the cultivation of plants that can withstand long periods without water.

DOWN IN THE HOLLER: A Gallery of Ozark Folk Speech—Vance Randolph and George P. Wilson—*University of Oklahoma Press*, 320 p., \$5.00. Deals with many phases of Ozark speech, including pronunciation, grammar, early English survivals, taboos, euphemisms, etc.

EXPERIMENTS WITH AIRPLANE INSTRUMENTS—Nelson F. Beeler and Franklyn M. Branley—*Thomas Y. Crowell*, 115 p., illus., \$2.50. Explains the function of airplane instruments from the simplest type of fuel gauge to the complex gyro mechanisms, with 16 experiments. Ages 10-14.

THE FIRST BOOK OF SPACE TRAVEL—Jeanne Bendick—*Franklin Watts*, 69 p., illus., \$1.75. Tells what space is, how we will probably reach it, and what we are likely to find there. Ages 7-12.

FLYING WINDMILLS: The Story of the Helicopter—Frank Ross, Jr.—*Lothrop, Lee & Shepard*, 192 p., illus., \$2.75. Portrays every type of helicopter in the air, and sketches the future of the craft now being designed. For teen-agers.

FROM SAVAGERY TO CIVILIZATION—Grahame Clark—*Schuman*, 116 p., illus., paper, \$1.00. Traces the story of man's development up to the dawn of civilization, when men started to live in villages.

THE HARVEY LECTURES: Delivered under the Auspices of the Harvey Society of New York, 1951-1952—A. R. Todd et al.—*Academic Press*, Series XLVII, 271 p., illus., \$7.50. Nine papers on various subjects such as The Nucleotides, Morphogenesis and The Metamorphosis of Insects, etc.

HIGHWAY PLANNING AND URBAN DEVELOPMENT—Highway Research Board—*National Academy of Sciences-National Research Council*, Bul. 64, 12 p., paper, 30 cents. A discussion of the effect of the automobile on decentralization, and the need to integrate highway planning and the redevelopment of blighted areas.

HOW TO KNOW AND PREDICT THE WEATHER—Robert M. Fisher—*New American Library*, 167 p., illus., paper, 35 cents. An explanation of the processes which make up the weather, including the basic facts that allow you to be your own forecaster.

HYDROMETALLURGY OF BASE METALS—George D. Van Arsdale, Ed.-in-Chief—*McGraw-Hill*, 370 p., illus., \$9.50. Shows how to recover base metals by leaching, with special reference to copper.

IMMUNITY, HYPERSENSITIVITY AND SEROLOGY—Sidney Raffel—*Appleton-Century-Crofts*, 531 p., illus., \$8.00. Describes the phenomena of immunity in basic terms, especially with regard to resistance to bacteria, viruses and toxins.

INDIAN TRIBES OF NORTHERN MATO GROSSO, BRAZIL—Kalervo Oberg—*Government Printing Office*, Smithsonian Institution, Institute of Social Anthropology Publication No. 15, 144 p., illus., paper, \$1.00. This covers the Camayurá, the Bacairí, the Nambicuara and the Umotina Indian tribes.

I REMEMBER—Dexter S. Kimball—*McGraw-Hill*, 259 p., illus., \$4.00. The autobiography of an emeritus professor of mechanical engineering at Cornell, and past president of the American Society of Mechanical Engineers.

THE LIVING BRAIN—W. Grey Walter—*Norton*, 311 p., illus., \$3.95. A history of the evolution of the brain, the invention and perfection of the electroencephalograph machine, and its clinical use for the diagnosis of brain afflictions.

LOGIC FOR MATHEMATICIANS—J. Barkley Rosser—*McGraw-Hill*, 530 p., \$10.00. Seeks to convey to mathematicians a precise knowledge of the logical principles which they use in their daily mathematics.

THE MEANING OF LOVE—Ashley Montagu, Ed.—*Julian Press*, 248 p., \$3.50. A group of modern thinkers examine and evaluate love as a major motivating and driving force in human society.

MISS PICKERELL AND THE GEIGER COUNTER—Ellen MacGregor—*Whittlesey House*, 123 p., illus., \$2.25. To help children (ages 8-12) learn about atomic science, radiocarbon dating, etc.

MODERN HEBREW—Eliczer Rieger—*Philosophical Library*, 156 p., \$3.75. Presents a complete program for teaching Hebrew as a modern spoken language.

THE PARAKEET OWNER'S HANDBOOK—*Will Gerber*, 32 p., paper, 25 cents. Answers the questions of owners of this increasingly popular bird.

PHYSIOLOGICAL FOUNDATIONS OF NEUROLOGY AND PSYCHIATRY—Ernest Gellhorn—*University of Minnesota Press*, 556 p., illus., \$8.50. Based primarily on the physiological, clinical and psychological research of the author.

POWER PLANTS FOR AIRCRAFT—Joseph Liston—*McGraw-Hill*, 577 p., illus., \$8.50. An undergraduate text presenting accurate and comprehensive comparisons of the many types of jet and reciprocating power plants.

PREHISTORIC SETTLEMENT PATTERNS IN THE VIRU VALLEY, PERU—Gordon R. Willey—*Government Printing Office*, Bureau of American

Ethnology, Bul. 155, 513 p., illus., \$4.00. The results of a study made in 1946.

RELAX AND LIVE—Joseph A. Kennedy—*Prentice-Hall*, 205 p., \$3.95. A program intended to relieve anxiety, strain and sleeplessness through the author's method of relaxation.

RICE VARIETIES AND THEIR YIELDS IN THE UNITED STATES, 1939-50—J. W. Jones, C. R. Adair, H. M. Beachell, N. E. Jodon and A. H. Williams—*Government Printing Office*, 28 p., illus., paper, 15 cents. The results of experiments conducted in Arkansas, Louisiana, Texas and California.

THE SCIENTIFIC ADVENTURE: Essays in the History and Philosophy of Science—Herbert Dingle—*Philosophical Library*, 372 p., illus., \$6.00. Lectures dealing primarily with astronomy and physics, but also including sections on the relation between science and the humanities and religion.

THE SLIDE RULE—H. W. Leach and George C. Beakley—*Macmillan*, 44 p., illus., paper, \$1.00. An explanation and discussion of slide rule operation. With drill problems.

STARCH: Its Sources, Production and Uses—Charles A. Brautlecht—*Reinhold*, 408 p., illus., \$10.00. Major emphasis is placed on white potato starch, but full information is included on other starch sources such as sweet potatoes, corn, tapioca, wheat and rice.

THE STORY OF OUR TIME: Encyclopedia Yearbook, 1953—E. V. McLoughlin, Editorial Director—*Grolier Society*, 432 p., illus., \$4.95. A summary by specialists of the important events of last year.

TALL TIMBER PILOTS—Dale White and Larry Florek—*Viking Press*, 223 p., illus., \$3.50. The story of a pioneer forest fire-fighting aviation business in Montana.

TEXTILE FIBERS, YARNS, AND FABRICS: A Comparative Survey of Their Behavior with Special Reference to Wool—Ernest R. Kaswell—*Reinhold*, 552 p., illus., \$11.00. An annotated and interpretive bibliography describing and discussing the research results of some 400 investigators.

THE UNIVERSE OF MEANING—Samuel Reiss—*Philosophical Library*, 227 p., \$3.75. Covers the various aspects of the relation of meaning to its symbol or expression.

VIRUS AND RICKETTSIAL CLASSIFICATION AND NOMENCLATURE—Roy W. Miner, Ed.—*New York Academy of Sciences, Annals*, Vol. 56, Art. 3, 241 p., illus., paper, \$4.00. Specific virus groups are discussed with regard to the special problems which each presents in further classification.

WHAT IS HISTORY?—V. Gordon Child—*Schuman*, 86 p., illus., paper, \$1.00. Reviews the changing conceptions of history which have characterized past epochs.

THE WONDER WORLD OF INSECTS—Marie Neurath—*Lothrop, Lee & Shepard*, 36 p., illus., \$1.50, cloth \$1.85. Encourages nature observation in children, ages 8-12.

WONDERS OF THE TREE WORLD—Margaret Cosgrove—*Dodd, Mead*, 92 p., illus., \$2.50. Encourages children 8 years old and up to observe the traits and mechanisms of trees.

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