

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.

ALL ABOUT DINOSAURS—Roy Chapman Andrews—*Random House*, 146 p., illus., \$1.95. Dinosaurs, the author assures us, were the strangest animals that ever existed on this earth. They all died out at the end of the Age of Reptiles, some 60,000,000 years ago.

ALL ABOUT RADIO AND TELEVISION — Jack Gould—*Random House*, 143 p., illus., \$1.95. Directed to boys and girls between the ages of 9 and 12.

ALL ABOUT THE SEA—Ferdinand C. Lane—*Random House*, 148 p., illus., \$1.95. Telling young people how the sea was formed, of the mountains under the ocean depths, life under the waters and the wealth that can be mined from sea water.

ALL ABOUT VOLCANOES AND EARTHQUAKES — Frederick H. Pough—*Random House*, 150 p., illus., \$1.95. The author is the expert who was sent by the American Museum of Natural History to observe the growth of the new volcano, Paricutin, in Mexico. Here he tells what scientists know about the reasons for earthquakes and volcanic eruptions.

ALL ABOUT THE WEATHER—Ivan Ray Tannehill—*Random House*, 148 p., illus., \$1.95. A senior meteorologist of the U. S. Weather Bureau explains for young people how to observe

the weather and how forecasts are made. Charmingly illustrated by Rene Martin.

AN APPRAISAL OF THE UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION—Irving Salomon, Chairman, and other delegates—U. S. *Department of State*, 18 p., paper, small quantities free upon request to publisher, Washington 25, D. C. Considering the criticisms and accusations against UNESCO that have arisen in the United States, and providing facts to answer them.

BACTERIOLOGIC ASPECTS OF BITUMINOUS COAL MINE EFFLUENTS—William W. Leathen—*Mellon Institute*, 8 p., illus., paper, free upon request to publisher, 4400 Fifth Avenue, Pittsburgh 13, Pa. Acid bituminous coal mine effluents, along with industrial wastes, constitute a major problem in Pennsylvania.

CHRISTMAS IDEA BOOK—Dorothy Biddle and Dorothea Blom—*Barrows*, 221 p., illus., \$3.50. How to decorate your home, table, doorway, gifts and tree to make the holiday more festive.

DESIGN FOR DECISION—Irwin D. J. Bross—*Macmillan*, 276 p., \$4.25. Describing in simple terms the process known as "statistical decision." Suggestions are made for further and more technical reading.

DOCTOR PYGMALION: The Autobiography of a Plastic Surgeon—Maxwell Maltz—*Crowell*, 261 p., \$3.50. The story of a surgeon who could save his patients from the tragedy of scarred, ugly faces and give them new, normal lives.

DOCTORS, PEOPLE, AND GOVERNMENT—James Howard Means—*Little, Brown*, 206 p., \$3.50. Attacking the problem of how to improve the nation's medical service.

ELEMENTARY QUANTITATIVE ANALYSIS—Ralph L. Van Peurse and Homer C. Imes—*McGraw-Hill*, 383 p., illus., \$4.50. Textbook for pre-medical and preengineering as well as chemistry students.

HIGH FIDELITY TECHNIQUES—John H. Newitt—*Rinehart*, 494 p., illus., \$7.50. High fidelity sound reproduction has recently made tremendous strides, the author explains, and these advances do not necessarily involve great expense. This book is for the engineer and serviceman,

but also for the man who likes to "build his own."

HOW CHILDREN LEARN TO WRITE—Helen K. Mackintosh and Wilhelmina Hill—*Govt. Printing Office*, Office of Education Bulletin 1953, No. 2, 24 p., illus., paper, 15 cents. Children learn to write by writing. Teachers will learn here how to present opportunities for writing that has a real purpose.

HOW TO LIVE WITH YOUR TEEN-AGER—Dorothy W. Baruch—*McGraw-Hill*, 261 p., illus., \$3.75. Addressed to perplexed parents by a psychologist, this book contains the reassurance that the "blame for everything big and small does not have to rest on your shoulders."

THE IROQUOIS EAGLE DANCE AN OFFSHOOT OF THE CALUMET DANCE—William N. Fenton—*AN ANALYSIS OF THE IROQUOIS EAGLE DANCE AND SONGS*—Gertrude Prokosch Kurath—*Govt. Printing Office*, 324 p., illus., paper, \$1.50. The ritual of the dance varies locally in detail, but everywhere there is an underlying pattern which sets limits to the expression of individual personality.

THE JOURNALS OF LEWIS AND CLARK—Bernard DeVoto, Ed.—*Houghton Mifflin*, 504 p., illus., \$6.50. An important narrative of North American exploration. The editor has chosen for reproduction here about one-third of the original manuscript.

MAN, TIME, AND FOSSILS: The Story of Evolution—Ruth Moore—*Knopf*, 411 p., illus., \$5.75. A companion volume to "Gods, Graves and Scholars," this book tells the story of man's evolution as revealed by the research and discoveries of recent years.

PRAPMA: A Primer of Public Relations for the Pharmaceutical Industry—Public Relations Committee APMA—*American Pharmaceutical Manufacturers' Association*, 90 p., illus., \$4.50. Public relations, for the drug manufacturer, involves letting the public know about his products without raising false hopes.

PARKING AS A FACTOR IN BUSINESS: Part 2, Economic Relationships of Parking to Business in Seattle Metropolitan Area—Louis C. Wagner—*Highway Research Board*, 37 p., illus., paper, \$1.35. The downtown business district is still handling as much business from shoppers, but it is losing out to suburban centers in relative importance.

PHILOSOPHICO-SCIENTIFIC PROBLEMS—P. Henry Van Laer, Translated by Henry J. Koren—*Duquesne University Press*, 168 p., paper \$2.50.

(See p. 318)

A new and refreshing perspective on mathematics

Mathematics in Western Culture

By MORRIS KLINE. In this survey Dr. Kline shows that mathematics is a vital part of human knowledge, intimately related to Western thought. From the Egyptians and Babylonians to the present day the author examines the motivations for great mathematical ideas, explains the ideas themselves in lively, non-technical terms, and relates mathematics to science, religion, philosophy, literature, music and painting.

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Books of the Week from page 316

cloth \$3.25. Discussion of a number of philosophical problems in the light of modern scientific data.

PREMATURITY, CONGENITAL MALFORMATION AND BIRTH INJURY—L. Emmett Holt, Jr., Theodore H. Ingalls and Louis B. Hellman, Co-Chairmen—*Association for the Aid of Crippled Children*, 255 p., illus., \$4.00. Proceedings of a conference to which more than thirty specialists in this field contributed.

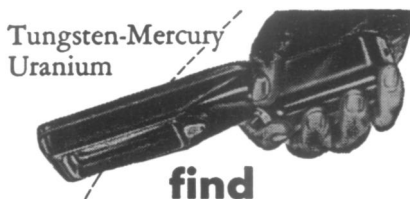
PRIMITIVE HERITAGE: An Anthropological Anthology—Margaret Mead and Nicolas Calas, Eds.—*Random House*, 592 p., \$5.00. Bringing together the writings of anthropologists that "would restore the sense of wonder earlier generations drew from accounts of primitive and exotic men."

RECRUITING THE COLLEGE GRADUATE: A Guide for Company Interviewers—Richard S. Uhrbrock—*American Management Association*, 31 p., paper, \$1.25. Now that demand for talent exceeds the supply, company interviewers will welcome this step-by-step guide for picking the best men.

SOIL AND FERTILIZER PHOSPHORUS IN CROP NUTRITION: Volume IV of AGRONOMY—W. H. Pierre and A. G. Norman, Eds.—*Academic Press*, 492 p., illus., \$9.00. A critical analysis of the present state of knowledge, needed in this rapidly advancing field. Contributed by a number of specialists.

SYNOPSIS OF MEDICAL PARASITOLOGY—V. E. Brown — *V. E. Brown*, 109 p., illus., paper, \$3.50. Intended as a reference manual for students' use in the laboratory.

THE THEORY OF METALS—A. H. Wilson—



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Cambridge University Press, 2nd ed., 346 p., illus., \$8.50. The author has attempted to introduce all important physical principles and to give applications which are of wide interest.

TELEVISION RECEIVER DESIGN: Monograph 2, Flywheel Synchronization of Saw-Tooth Generators—P. A. Neeteson—*Philips' Technical Library (Elsevier)*, 156 p., illus., \$4.50. Television engineering demands more than the application of radio experience; television receivers embody new developments in circuit design and the use of electronic tubes.

UNDERSTANDING BOYS—Clarence G. Moser—*Association Press*, 190 p., illus., \$2.50. Written by a child guidance specialist for adults.

UNESCO FACTS—*U. S. National Commission for UNESCO*, 16 p., illus., paper, small quantities free upon request to publisher, Department of State, Washington 25, D. C. Facts about the objectives and accomplishments of UNESCO and why the U. S. Government participates.

VAGRANT VIKING: My Life and Adventures—Peter Freuchen, translated from the Danish by Johan Hambro—*Messner*, 422 p., illus., \$5.00. An Arctic explorer tells the story of his adventurous life.

VOCABULARIUM BIBLIOTHECARI—Begun by Henri Lemaitre, revised and enlarged by Anthony Thompson—*UNESCO (Columbia University Press)*, 296 p., paper, \$1.75. Common terms used by librarians, such as "complete works," "detective story," "fiction" and so on, with the equivalents in French and German.

WHAT CHIEF STATE SCHOOL OFFICERS SAY ABOUT HIGH SCHOOL DRIVER EDUCATION—*American Automobile Association*, 20 p., illus., paper, single copies free upon request to publisher, 1712 G Street, N.W., Washington, D. C. High school driver education reduces accidents by 50% or more, although only a fourth of high schools offer this driver training.

WITHIN THE LIVING PLANT: An Introduction to Plant Physiology—Erston V. Miller—*Blakiston*, 325 p., illus., \$5.00. Based on the author's plant physiology course at the University of Pittsburgh.

WORLD MEDICAL PERIODICALS—Joint Committee of UNESCO and WHO—*WHO-UNESCO (Columbia University Press)*, 237 p., \$2.00. Listing 4,000 periodicals with place of publication and language. A subject index is included.

Science News Letter, November 14, 1953



Defeating Winter

► **LIVING THINGS** use a wide variety of means in defeating or evading the deadly blight of winter! Plants, in general, have the hardest time of it.

Lower forms, being mostly aquatic, keep refuge in the water, as fish do, and stolidly stick it out. Water seldom freezes all the way to the bottom. Some of these pond inhabitants, at that, produce desistant spores in autumn, that fall to the bottom and lie dormant until spring.

Higher plants either trust the fate of coming generations to their seed and submit to being frozen to death, as the annual herbs do, or crouch beneath coverings of dead leaves and drifted snow, or even retreat into bulbs, rootstocks, etc., leaving no parts exposed above the surface. Trees, shrubs and woody vines either shed their leaves and stand as skeletons through the bitter season, or cling stubbornly to close-reefed evergreen foliage, and wrestle it out with the storms.

Animals, being motile for the most part, have a wider choice. Some, like short-lived insects, entrust the fate of the species to eggs or pupae, as annual plants do to seeds, and make no attempt to live through the winter. Others, notably birds, frankly run away, migrating southward in vast flocks as winter moves down the map, to return north with spring.

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