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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.

ABACS OR NOMOGRAMS: An Introduction to Their Theory and Construction Illustrated by Examples from Engineering and Physics—A. Giet, translated and revised by J. W. Head and H. D. Phippen—*Philosophical Library*, 225 p., \$12.00. The subject is explained in an elementary way in this book intended for practical engineers rather than mathematicians.

ASTRONOMY HANDBOOK-Leon A. Hausman-Fawcett, 144 p., illus., paper, 75 cents. A howto-do-it book for the beginning star-gazer.

THE CHEMISTRY OF THE COORDINATION COM-POUNDS-John C. Bailar, Jr., Ed., and Daryle H. Busch, Ed. Asst.—Reinhold, 834 p., \$18.50. Werner's coordination theory might be said, the author points out, to underlie our modern concepts of molecular structure.

THE CONDENSED CHEMICAL DICTIONARY: A Reference Volume for All Requiring Quick Access to Essential Data Regarding Chemicals and Other Substances Used in Manufacturing and Research, and to Terms in General Use in Chemistry and the Process Industries - Francis M. Turner, completely revised and enlarged by Arthur and Elizabeth Rose-Reinhold, 5th ed., 1200 p., \$12.50. Containing over 30,000 entries.

Defects in Crystalline Solids: Report of the Conference Held at the H. H. Wills Physical Laboratory, University of Bristol, July 1954— N. Bloembergen and others—*The Physical So*ciety, 429 p., illus., paper, \$6.00. Describing defects, especially dislocations and point defects, and new experimental methods of investigating their properties.

THE DYNAMICS OF AGING-Ethel Sabin Smith —Norton, 191 p., \$2.95. A book on "how to grow old" directed for the most part to those who are still young.

ENCOURAGING SCIENTIFIC TALENT: A Study America's Able Students Who Are Lost to College and of Ways of Attracting Them to College and Science Careers—Charles C. Cole Jr.—College Entrance Examination Board, 259 p., paper, \$3.50. Reporting a study made by the Board at the request and with the support of the National Science Foundation. Includes discussion of the Science Talent Search and the Science Clubs of America.

EXPLORING THE DEEP PACIFIC-Helen Raitt, introduction by Roger Revelle-Norton, 272 p., illus., \$3.75. An unofficial account, which has the flavor of an adventure story, of an oceanographic expedition in the South Pacific.

Family Medical Costs and Voluntary Health Insurance: A Nationwide Survey — Odin W. Anderson with Jacob J. Feldman-Blakiston, McGraw-Hill, 251 p., illus., \$6.50. Based on a survey of 2,809 families interviewed in their homes. More than 100,000,000 persons, 61% of the population, are enrolled in health insurance plans.

The First Book of the West Indies—Langston Hughes - Franklin Watts, 63 p., illus., \$1.95. Introducing children to some of our near neighbors.

FROGS AND POLLIWOGS-Dorothy Childs Hog--Crowell, 68 p., illus., \$2.50. Natural history for children.

HANDBOOK OF SCIENTIFIC INSTRUMENTS AND APPARATUS 1956—The Physical Society, 257 p., illus., paper, \$1.00. This list of apparatus was published in connection with the 40th Physical Society Exhibition held in London, May 14-17.

How to Make and Use a Telescope—H. Percy Wilkins and Patrick Moore-Norton, 196 p., illus., \$2.95. An authoritative how-to-do-it book for amateur astronomers.

Introductory Psychosomatic Dentistry John H. Manhold, Jr.—Appleton-Century-Crofts, 193 p., \$5.00. The author presents evidence for his view that dental decay, although apparently so objective, is nevertheless linked with personality makeup.

THE INTERNATIONAL DICTIONARY OF PHYSICS AND ELECTRONICS—Walter C. Michels and others, Eds.—Van Nostrand, 1004 p., illus., \$20.00. Prepared by an international group of scientists and educators, the dictionary is nevertheless in

JOINT SPACING IN CONCRETE PAVEMENTS: 10-Year Reports on Six Experimental Projects-Earl C. Sutherland and others-Highway Research Board, Research Report 17-B, 159 p., illus., paper, \$2.70. Today practically every state has eliminated expansion joints in non-reinforced concrete pavements except at structures and other special locations.

LEARNING AND INSTINCT IN ANIMALS-W. H. Thorpe-Harvard University Press, 493 p., illus.,



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All-transistor wrist radio receiver

A broadcast band all-transistor wrist radio has been designed with r-f reflex circuit to provide good selectivity and sensitivity. Three transistors are used which require 4.5 ma total battery current and five button-size mercury cells last up to 100 hours. The receiver features a 2-stage transformer-coupled audio amplifier and a no-whistle regenerative circuit. A high quality hearing aid receiver allows for private listening. Printed circuitry is used throughout. Band coverage

POSTPAID circuitry is used throughout. Band coverage is 550 to 1600 kc. Its small size (234 in. long, 134 in. wide and 34 in. thick) and weight (2.5 oz. with batteries) make it well suited for wearing on the wrist or in a shirt pocket. Completely assembled with all batteries.

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\$10.00. For students of psychology, zoology or physiology, pointing out how dependent these fields are on each other.

THE MAKERS OF HONEY-Mary Geisler Phillips—Crowell, 163 p., illus. with drawings by Elizabeth Burckmyer, \$2.50. Interesting information about the lives of bees.

MICKEY'S MAGNET-Franklyn M. Branley and Eleanor K. Vaughan—Crowell, illus., with drawings by Crockett Johnson, \$2.50. Telling young children of interesting experiments with a horseshoe magnet.

Nature's Guardians: Your Career in Conservation-Harry Edward Neal-Messner, 192 p., illus., \$3.50. A guide to the occupation of conservation for high-school students.

Organization of the Federal Government FOR SCIENTIFIC ACTIVITIES—John C. Honey and others—Govt. Printing Office, 349 p., illus., \$1.75. (See p. 184).

OUR AMERICAN TREES-Ruth H. Dudley-Crowell, 147 p., illus. with drawings by Nils Hogner, \$2.50. A descriptive book about the trees and forests of the United States, including an account of the biggest, smallest and other unusual trees.

THE PHYSICS OF THE IONOSPHERE: Report of the Physical Society Conference Held at the Cavendish Laboratory, Cambridge, Sept., 1954

—A. H. Waynick and others—The Physical Society, 406 p., illus., paper, \$6.00.

PROCESS CHEMISTRY-F. R. Bruce, J. Fletcher, H. H. Hyman and J. J. Katz, Eds .-McGraw-Hill, Progress in Nuclear Energy, Series III, 407 p., illus., \$12.00. Reference material for those actively engaged in the chemical aspects of atomic energy.

SELECTED BIBLIOGRAPHY ON BUILDING CON-STRUCTION AND MAINTENANCE-Edith R. Meggers-Govt. Printing Office, National Bureau of Standards Building Materials and Structures Report 140, 2d ed., 40 p., paper, 30 cents.

THE STORY OF CAVES-Dorothy Sterling-Doubleday, 121 p., illus. with drawings by Winifred Lubell, \$3.00. Telling how caves are formed, what to see in them, the kinds of life they shelter, and archaeological evidences of prehistoric peoples to be found there.

THEIR MOTHERS' DAUGHTERS - Edward A. Strecker and Vincent T. Lathbury-Lippincott, 256 p., \$3.75. The author of "Their Mothers" Sons" here writes of daughters who may also be kept tied to mom's apron strings.

Science News Letter, September 22, 1956

MATH IS FUN

By Joseph Degrazia, Ph.D.

Here is a treasury of brain-teasers. You need not be a mathematical genius to solve these problems and puzzles. What you need is to know how to THINK LOGICALLY—how to REASON. This is practically a "course" in applied logic and reasoning—besides being an immense amount of fun that will keep you absorbed for many hours. You will find not only that MATH 15 FUN, but also that learning math can be fun!

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BIOCHEMISTRY

Drugs Tranquilize Fighting Fish

➤ SIAMESE FIGHTING FISH will not fight when under the influence of the tranquilizing drugs. When given reserpine and Meprobamate, they not only will not fight but retreat, usually backward. (See SNL, Sept. 15, p. 167.)

Given another tranquilizer, chlorpromazine, the fighting fish are quiet, not even swimming about, until attacked by other fish, whereupon they also refuse to fight and swim away.

Antihistaminic drugs make the fish turn pale and try to escape from other fish so violently they almost jump out of the tank.

Barbiturate sleeping drugs depress the fish, but they will fight when goaded. Morphine and aspirin excite them slightly and, under the influence of these two, the fish are very aggressive and fight.

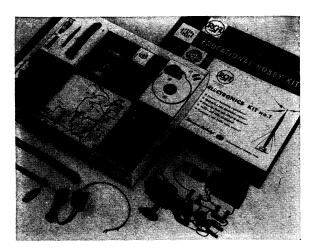
The Siamese fighting fish studies, which suggest that these aquatic animals might be good guinea pigs for testing various drugs that affect the nervous system, are reported by Drs. E. J. Walaszek and L. G. Abood of the University of Illinois College of Medicine, Chicago, in Science (Sept. 7).

Science News Letter, September 22, 1956

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