

on the most appetizing green stuff that he can find. After sleeping from dusk to dawn, he takes a long nap in the morning and a shorter one in the afternoon.

Then, as winter approaches, he retires with a yawn and settles down to a real

sleep. Like most of his rodent relatives, the woodchuck is a burrower, though not at all a particular one. Once he has dug a home he sleeps in it, rather than expending any effort in improving it.

Science News Letter, October 9, 1954

## • 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, 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.

ABSTRACTS OF SCIENTIFIC PAPERS, Second World Congress of Cardiology and the 27th Annual Scientific Sessions of the American Heart Association, Inc.—*American Heart Association*, 559 p., paper, \$3.00. For the first time communication and mutual understanding among the delegates to an international scientific congress was facilitated by circulating abstracts of the papers in the easy-to-read international language Interlingua.

ACCENT ON FORM: An Anticipation of the Science of Tomorrow—Lancelot Law Whyte—*Harper*, 198 p., \$2.75. A British physicist raises the question, "What kind of universe is this into which we are born?"

ADMINISTRATIVE MEDICINE: Transactions of the Second Conference, December 8, 9, and 10, 1953, Princeton, N. J.—George S. Stevenson,

Ed.—*Josiah Macy Jr. Foundation*, 164 p., illus., \$3.00. Discussing this problem from varied points of view.

THE ANATOMY OF PERSONALITY—Donald K. Adams—*Doubleday*, Doubleday Papers in Psychology, 44 p., illus., paper, 85 cents. A basic exposition of the application of the field-theoretical perspective to personality, the first since that presented by the late Kurt Lewin.

THE ANIMAL KINGDOM: The Strange and Wonderful Ways of Mammals, Birds, Reptiles, Fishes and Insects. A New and Authentic Natural History of the Wildlife of the World—Frederick Drimmer, Ed. in Chief—*Greystone*, 2062 p., three volumes, illus., \$17.50. The work of seven naturalists on the staffs of the American Museum of Natural History and the New York Zoological Society, this book is intended to fill the place of the old standby "Wood's Natural History."

ART AND PLAY THERAPY—Emery I. Gondor—*Doubleday*, Doubleday Papers in Psychology, 61 p., illus., paper, 95 cents. A clinician describes a particular method used to work with children and to gain an understanding of their problems and needs.

ART OF ASIA—Helen Rubissow—*Philosophical Library*, 237 p., illus., \$6.00. Man's most authentic record, the author comments, is his art. In deep caves beneath the earth and on the rocks of high mountain tops, early man has left fragments of his story.

THE CHEMICAL PATHOLOGY OF ANIMAL PIGMENTS: A Symposium Held at the London School of Hygiene and Tropical Medicine on 20 February 1954—R. T. Williams, Ed.—*Cambridge University Press*, 84 p., illus., paper, \$2.75. Devoting special attention to porphyrin and heme metabolism.

THE CONCEPT OF SCHIZOPHRENIA—W. F. McAuley with foreword by John H. Ewen—*Philosophical Library*, 145 p., \$3.75. Surveying our

present knowledge of this most common of all mental diseases and evaluating the importance of environment and heredity.

THE DISTRIBUTION AND ABUNDANCE OF ANIMALS—H. G. Andrewartha and L. C. Birch—*University of Chicago Press*, 782 p., illus., \$15.00. Discussing where the various animals are to be found over the earth's surface and the niche each occupies in the animal community.

THE DRAGONFLY LARVA—R. E. Snodgrass—*Smithsonian*, 38 p., illus., paper, 35 cents. Metamorphosis, the author reminds us, still baffles the understanding.

THE ENCYCLOPEDIA OF CHILD CARE AND GUIDANCE—Sidonie Matsner Gruenberg, Ed.—*Doubleday*, 1016 p., illus., \$7.50. An alphabetical list of topics parents might wish to look up from "Abilities" to "Youth Organizations," followed by chapters of guidance on child care. The editors recommend the book especially to grandparents to help them bring themselves up-to-date.

EXHAUST FOR HOT PROCESSES—W. C. L. Hemeon—*Mellon Institute*, 8 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. Convection currents and thermal head are two of the influences analyzed here.

FACTORS AFFECTING THE COSTS OF HOSPITAL CARE: Volume I of Financing Hospital Care in the United States—John H. Hayes, Ed.—*Blakiston*, 300 p., illus., \$4.00. The first of three volumes that will contain the detailed report of the Commission on Financing Hospital Care. Lower costs, in the opinion of the commission, should not be achieved by sacrificing hospital services.

GENERAL CHEMISTRY—W. Norton Jones Jr.—*Blakiston*, 907 p., illus., \$6.50. A text for first-year college students, designed to be suitable for those who have had high-school chemistry and those who have not.

GENETICS, BIOLOGICAL INDIVIDUALITY AND CANCER: Lane Medical Lectures—Clarence C. Little—*Stanford University Press*, Stanford University Publications University Series Medical Sciences, Volume VII, 115 p., illus., paper, \$2.50. Summing up the basic information on the nature of cancer growth.

GROWING WITH THE YEARS—Thomas C. Desmond and others—*New York State Joint Legislative Committee on Problems of the Aging*, 159 p., illus., paper, free upon request direct to publisher, 94 Broadway, Newburgh, N. Y. A group of articles by various specialists discussing ways of making the later years of life happier and more rewarding to the individual and to society.

HOW CHILDREN CAN BE CREATIVE—Wilhelmina Hill, Helen K. Mackintosh and Arne Randall—*Govt. Printing Office*, Office of Education

### Can curved space be visualized? Here's what Bertrand Russell says:

"The world of physics must be continuous with the world of our perceptions, for it is the latter which supplies the evidence for the laws of physics," writes Lord Russell in the opening chapter of his widely-acclaimed **ANALYSIS OF MATTER**. In the remaining 37 chapters he shows the part our perceptions must play in understanding relativity theory, geodesics, causal laws, space-time, periodicity, Weyl's theory, etc. A brilliant 412-page book ("One of the best that Mr. Russell has given us."—*London Times*) now in new unabridged edition. Paperbound.

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Bulletin 1954, No. 12, 23 p., illus., paper, 15 cents. Showing that creative activity by no means needs to be confined to use of paint brush or musical instrument.

ICEBERGS AND JUNGLES—Shirley Carpenter and Marie Neurath—*Hanover House*, 30 p., illus., \$1.00. Colored shadow relief maps and photographs give children a beautiful introduction to the subject of climate.

INTERNATIONAL REVIEW OF CYTOLOGY: Volume III—G. H. Bourne and J. F. Danielli, Eds.—*Academic*, 530 p., illus., \$9.50. Chapters contributed by 16 scientists.

THE MARCHING WIND—Leonard Clark—*Funk & Wagnalls*, 368 p., illus., \$5.00. An exciting travel story about a previously unmapped and unexplored region in the heart of Asia. The height of the Amne Machin peak, here described, is the subject of dispute as is its very existence, according to the author.

MARKETING: The Yearbook of Agriculture 1954—Alfred Stefferud, Ed.—*Govt. Printing Office*, 506 p., illus., \$1.75. Discussing many aspects of the problem of getting food from the farmer's land to your table.

MINERALS FOR ATOMIC ENERGY: A Guide to Exploration for Uranium, Thorium and Beryllium—Robert D. Nininger—*Van Nostrand*, 367 p., illus., \$7.50. The purpose of this book is to expand on and complete the information in the AEC's booklet for amateur uranium prospectors. Telling what to look for, where to look, how to look and what to do with the ore if you find it.

MY LIFE WITH THE MICROBES—Selman A. Waksman—*Simon and Schuster*, 364 p., illus., \$5.00. The Nobelist tells the dramatic story of his early life in Russia and the events that followed his coming as an immigrant boy to this country in search of education and an opportunity to make life healthier and richer for others.

MODERN PHYSICS FOR THE ENGINEER—Louis N. Ridenour, Ed.—*McGraw-Hill*, 499 p., illus., \$7.50. Each chapter is contributed by a recognized authority in the particular field covered.

MOUNTAINS AND VALLEYS—Shirley Carpenter, Marie Neurath and Stewart Irwin—*Hanover House*, 30 p., illus., \$1.00. The beautiful shadow relief maps and isotypes in color give children a 3-D view of the surface of the world we live in.

THE NEW WARFARE—Brigadier C. N. Barclay—*Philosophical Library*, 65 p., \$2.75. Developing the thesis that today's warfare consists of our current state of a battle of propaganda, underground activities, armed threats and limited war by proxy.

ON THE NATURE OF PSYCHOTHERAPY: Basic Definitions and Assumptions for Students of Psychology and Medicine—Arnold Bernstein—*Doubleday*, Doubleday Papers in Psychology, 36

p., paper, 85 cents. Explicit statements of basic assumptions intended to reduce semantic confusion for students.

THE PRACTICE OF SANITATION—Edward Scott Hopkins and Wilmer Henry Schulze—*Williams & Wilkins*, 2d ed., 466 p., illus., \$8.00. The gratifying increase in life expectancy at birth in recent years has been due in considerable part to improvement in sanitation.

THE REAL BOOK ABOUT THE SEA—Samuel Epstein and Beryl Williams—*Garden City Books*, 223 p., illus., \$1.50. A book for boys and girls about the open sea that covers three quarters of the surface of our globe.

RELIGION AND SOCIETY—Elizabeth K. Nottingham—*Doubleday*, Doubleday Short Studies in Sociology, 84 p., paper, 95 cents. Intended to give the sociology student as well as the layman a basic point of view regarding the part played by religion in human societies.

SPECTROGRAPHIC EXAMINATION OF THE OCCURRENCE OF CERTAIN ALKALI ELEMENTS IN CALCITE MARBLES—M. P. Lelong and Edwin S. Hodge—*Mellon Institute*, 7 p., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. The alkali content, important in connection with weathering, was found to follow a pattern dependent upon geographical origin.

THEORETICALLY REQUIRED EXHAUST RATES FOR DUST CONTROL IN BULK MATERIAL HANDLING SYSTEMS—W. C. L. Hemeon—*Mellon Institute*, 3 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. Each individual particle moving

through air tends to drag air with it. The author has calculated the resistance due to air drag.

THE WONDERFUL WORLD: The Adventure of the Earth We Live On—James Fisher, and F. H. K. Henrion, Art Editor—*Hanover House*, 68 p., illus., \$2.50. Geography, geology, climatology and related subjects made attractive for children by beautiful color pictures.

ZOO EXPEDITIONS—William Bridges—*Morrow*, 191 p., illus., \$3.50. A delightful book for the armchair explorer and lover of nature.

Science News Letter, October 9, 1954

MARINE BIOLOGY

Try Raising Oyster Larvae in Crocks

► OREGON'S NATIVE oyster industry may be revived, if attempts to raise oyster larvae in 12-gallon crocks prove successful.

W. P. Breese is trying to do this at Oregon State College's marine research laboratory at Yaquina Bay. Conditions in the bay are just right for natural seeding only about one year in four, he said.

If the oyster can be grown satisfactorily in crocks and transplanted, Oregon commercial oyster populations in many bays could be boosted.

Science News Letter, October 9, 1954

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