

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.

AMERICAN INDIANS AND AMERICAN LIFE—George E. Simpson and J. Milton Yinger, Eds.—*American Academy of Political and Social Science*, The Annals, Volume 311, May 1957, 226 p., paper \$2.00, cloth \$3.00. Discussing particularly the economic, institutional and administrative aspects of Indian life.

ARCHAEOLOGY AND ITS PROBLEMS—Sigfried J. De Laet, translated by Ruth Daniel with a foreword by Glyn E. Daniel—*Macmillan*, 136 p., illus., \$4.50. This book is not only a general introduction to the methodology of archaeology but it reveals some of the special problems faced by the Belgian archaeologist.

ATLAS OF HUMAN ANATOMY—Franz Frohse, Max Brödel and Leon Schlossberg with explanatory text by Jesse F. Williams—*Barnes & Noble*, rev. ed. including section on Endocrine Glands by Charles F. Geschickter, 88 p., illus., paper, \$2.25. Reproduction in pocket size of a set of the Frohse-Brödel wall charts with supplementary charts and text.

CATALYTIC DECOMPOSITION OF NITRIC OXIDE—Charles H. Riesz, Fred L. Morritz and Karl D. Franson—*Air Pollution Foundation*, 22 p.,

illus., paper, \$1.50. Pointing to a possible way of removing some of the nitric oxide from automobile exhausts and thus eliminating a major source of one of the elements of smog.

CITADEL, MARKET AND ALTAR: Emerging Society, Outline of Sociometry; the New Natural Science of Society—Spencer Heath—*Science of Society Foundation*, 259 p., charts, \$6.00. A retired engineer looks into the future where he sees free-enterprise technology extending itself into the common and public services, creating vast profits for all the people. Ownership, he stresses, is what confers freedom.

COMMENTS ON THE IMPORTANCE OF ION-MOLECULE REACTIONS IN LIQUID-PHASE RADIATION CHEMISTRY—Robert H. Schuler—*Mellon Institute*, 1 p., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

DEXTRAN AND ITS USE IN COLLOIDAL INFUSION SOLUTIONS—Anders Görmarwall—*Academic*, 156 p., graphs, \$4.00. Summarizing the literature on the medical use of dextran especially in plasma expanders.

DRIVER CHARACTERISTICS—Leon Brody and others—*Highway Research Board*, Bulletin 152 37 p., illus., paper, 80 cents. Reports indicating some of the human causes of traffic accidents and suggesting some novel ways of reducing the hazard.

GROUP PSYCHOTHERAPY: The Psycho-Analytic Approach—S. H. Foulkes and E. J. Anthony—*Penguin*, 263 p., diagrams, paper, 85 cents. Giving the lay reader a comprehensive account of the principles and methods of group psychotherapy. One of the authors was a pioneer in group psychotherapy, the other is a child psychiatrist.

HALF THE WORLD'S CHILDREN: A Diary of UNICEF at Work in Asia—S. M. Keeny—*Association Press*, 254 p., illus., \$3.50. Based on the author's notes as he traveled about on his mission for UNICEF, but, he explains, his pen is at times wayward so that all sorts of things that interested or amused him got into the record.

A HISTORY OF LUMINESCENCE FROM THE EARLIEST TIMES UNTIL 1900—E. Newton Harvey—*American Philosophical Society*, 692 p., illus., \$6.00. Tracing the discovery and the ideas regarding cold light from the earliest times until the end of the nineteenth century, presenting, so far as possible, the views of the authors in their own words. Dr. Harvey has spent nearly 45 years in study in this field.

INSECTS ON PARADE—Clarence J. Hylander—*Macmillan*, 208 p., illus. with photographs, and drawings by the author, \$3.75. A delightful book for young readers.

MAMMALS OF THE GREAT LAKES REGION—William Henry Burt—*University of Michigan Press*, 246 p., illus., \$4.75. A revision of the "Mammals of Michigan" with species added to include the area surrounding the Great Lakes. Includes maps showing the range of various species.

MARINE ALGAE OF THE NORTHEASTERN COAST OF NORTH AMERICA—William Randolph Taylor—*University of Michigan Press*, rev. ed., 509 p., illus. with drawings by Chin-Chih Jao, \$12.50. A catalog with a wide range from Virginia to the far north in the eastern American Arctic and westward in the Arctic to include Hudson Bay.

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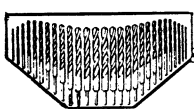
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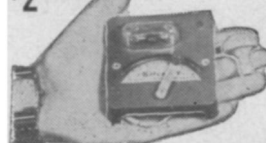
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A MONOGRAPH ON THE TERMITOPHILOUS STAPHYLINIDAE (COLEOPTERA) — Charles H. Seevers—*Chicago Natural History Museum, Fieldiana: Zoology* Volume 40, 334 p., illus., paper, \$6.50. A scientific description of those species of staphylinid beetles that are obligatory members of termite societies at some stage in their life history.

THE NEGRO IN THE UNITED STATES—E. Franklin Frazier—*Macmillan*, rev. ed., 769 p., graphs and maps, \$6.40. Treating the Negro in his interaction with the larger American society of which he is a part and throwing light on the position of other minorities in this country.

THE NEW HIGH FIDELITY HANDBOOK—Irving Greene and James R. Radcliffe, foreword by Deems Taylor and section on the High Fidelity Record by Harold C. Schonberg—*Crown*, rev. ed., 193 p., illus., \$4.95. Source of ready reference to the music lover.

THE NEXT HUNDRED YEARS: A Discussion Prepared for Leaders of American Industry—Harrison Brown, James Bonner and John Weir—*Viking*, 193 p., graphs, \$3.95. A geochemist, a biologist and a psychologist take a look at man's natural and technological resources. They discuss not only technical manpower but also technical brainpower and discuss possible ways to increase the effective output of our scientists by creating a more favorable environment.

NOTES ON THE SOLAR CORONA AND THE TERRESTRIAL IONOSPHERE—Sydney Chapman with supplementary note by Harold Zirin—*Govt. Printing Office, Smithsonian Contributions to Astrophysics*, Volume 2, Number 1, 14 p., paper, 20 cents. The suggestion is made that the hot coronal gas surrounding the earth may be the cause of the downward flow of heat below the F₂ peak in the terrestrial ionosphere. Observations from the satellite may confirm this.

NUCLEAR POWER ENGINEERING—Henry C. Schwenk and Robert H. Shannon, edited by B. G. A. Skrotzki—*McGraw-Hill*, 319 p., illus., \$6.50. Gathering together the basic facts of the physics, design, materials, economics and operation of nuclear power plants.

PHOTOGRAPHY—Eric de Maré—*Penguin*, 336 p., illus., paper, \$1.25. A beautifully illustrated book for the amateur.

PHYSICAL PROPERTIES OF CRYSTALS: Their Representation by Tensors and Matrices—J. F. Nye—*Oxford University Press*, 322 p., diagrams, \$8.00. Textbook dealing with the large number of physical properties of crystals that are represented by tensors and how these mathematical quantities are used to specify the physical properties.

THE PHYSIOLOGY OF FISHES: Volume 1, Metabolism—Margaret E. Brown, Ed.—*Academic*, 447 p., illus., \$12.00. Authoritative reviews of the present state of knowledge of the various aspects of fish physiology, indicating possible fruitful lines for further research.

SCIENCE AND HUMAN LIFE—J. A. V. Butler—*Basic Books*, 163 p., \$3.95. A "personal attempt" to put recent scientific discoveries into perspective and to discuss their human implications. The author is a physical chemist.

SCIENCE NEWS 43—Archie and Nan Clow, Eds.—*Penguin*, 136 p., illus., paper, 65 cents. A group of British scholars write about topics of timely interest.

SOLID STATE PHYSICS—Adrianus J. Dekker—*Prentice-Hall*, 540 p., diagrams, \$9.00. An introductory text suitable for seniors or graduate students of the solid state in physics, engineering, chemistry and metallurgy.

STUDY ABROAD: International Handbook Fellowships, Scholarships, Educational Exchange, 1956-1957—*UNESCO*, 8th ed., 719 p., paper,

\$2.00. Listing over 74,000 fellowships and scholarships permitting travel and study in almost every country in the world. Includes eight countries not known as donors before. Text is in English, French and Spanish.

SURVEY OF RESEARCH PROJECTS IN THE FIELD OF AVIATION SAFETY: Sixth Annual Supplement January 1957—*Daniel and Florence Guggenheim Aviation Safety Center at Cornell University*, 114 p., paper, \$2.00. Not a bibliography of reports but a record of current unclassified research. The current report contains several hundred projects not formerly listed.

A SYMPOSIUM ON HIGHWAY SHOULDERS—Fred B. Farrell and others—*Highway Research Board, Bulletin 151*, 27 p., illus., paper, 75 cents. Describing the most recent thinking on this subject and proposing needed research.

TODAY'S NEUROTIC FAMILY: A Journey into Psychoanalysis—Harry F. Tashman—*New York University Press for Laymen's Institute for Psychoanalytic Enlightenment*, 214 p., \$3.95. A psychoanalyst tells the layman how neurotic parents impose their ills on their child, producing in him a juvenile delinquent or mentally ill person.

TOOTH ERUPTION CALCULATOR—*Dental Digest*, movable disk, \$1.00. Especially for parents and grandparents. You can set the disk to the age of Junior and see at a glance just which teeth he should have judging from the average age at which eruption occurs. Ages shown are from birth to 21 years.

UNDERWATER PHOTOGRAPHY—Hilbert Schenck Jr. and Henry W. Kendall—*Cornell Maritime Press*, rev. ed., 126 p., illus., by John E. Johnson, \$3.50. Including both optical and photometric theory and simple exposure and filter instruction.

WATER CONSUMPTION BY WATER-LOVING PLANTS IN THE MALAD VALLEY, ONEIDA COUNTY, IDAHO—R. W. Mower and R. L. Nace—*Govt. Printing Office, Geological Survey Water-Supply Paper 1412*, 33 p., illus., paper, 55 cents. The 32,000 acre-feet of water consumed by low-value vegetation would be adequate, in suitable circumstances, to irrigate 10,000 to 15,000 acres of profitable crops having lower water requirements.

A WOMAN DOCTOR LOOKS AT LOVE AND LIFE—Marion Hilliard—*Doubleday*, 190 p., \$2.95. A chief of obstetrics and gynecology writes out of a broad experience with women patients.

Science News Letter, June 8, 1957

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