

Books of the Week

For the editorial information of our readers, books received for review 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.

ADVENTURES IN SCIENCE—Harold R. Hungerford—Walch, J. Weston, 284 p., illus. by Robert Robinson, paper, \$3. Resource book for students in grades seven to ten.

AN ANNOTATED BIBLIOGRAPHY ON THE ORIGIN AND DESCENT OF DOMESTIC MAMMALS, 1900-1955—Shimon Angress and Charles A. Reed—Chicago Natural Hist. Mus., 143 p., paper, \$2.75. Fieldiana: Anthropology, Vol. 54, No. 1.

ASPECTS OF THE THEORY OF ARTIFICIAL INTELLIGENCE—C. A. Muses, Ed.—Plenum Press, 283 p., illus., \$10. Proceedings of the First International Symposium on Biosimulation, Locarno, Switzerland, June 29-July 5, 1960.

BASIC THEORIES OF PHYSICS: Heat and Quanta. Mechanics and Electrodynamics—Peter Gabriel Bergmann—Dover, 300 p., 280 p., paper, \$1.75 each. Reprint (1949 and 1951), in the two volumes the author examines critically the major subdivisions of classical and modern physics.

THE CHALLENGES OF SPACE—Hugh Odishaw, Ed., foreword by Eugene Rabinowitch—Univ. of Chicago Press, 379 p., illus., \$6.95. Discusses, among other things, the earth and near space, the planets, fields and particles in space, galactic astronomy, the problems of man in space, and the question of life in space.

THE DISTRIBUTION OF PACIFIC EUPHAUSIIDS—Edward Brinton—Univ. of Calif. Press, 218 p., illus., paper, \$5. Presents quantitative aspects of vertical and horizontal distributions of the 59 Pacific euphausiid species.

ESSENTIALS OF PHYSICAL SCIENCE—David E. Goldberg; William E. Schmidt, Ed.—Sigma Press, 315 p., illus., paper, \$4.25. Designed to aid the beginning student in the understanding and active learning of physical science.

FUEL CELLS: Power for the Future—David R. Adams and others—Fuel Cell Research Associates (Willow Grove, Pa.), 160 p., illus., \$8.75. Technical analysis and economic evaluation of commercial and engineering practicality of present and potential fuel cells. Second printing of 1960 study.

How Fast Can You Read?

A noted publisher in Chicago reports there is a simple technique of rapid reading which should enable you to double your reading speed by this simple, proven method and yet retain much more. Most people do not realize how much they could increase their pleasure, success and income through reading faster, easier, more accurately.

According to this publisher, anyone, regardless of his present reading habits and reading speed, can use this simple technique to improve his reading ability and develop it to a remarkable degree. Whether reading stories, textbooks, technical matter, it becomes possible to read sentences at a glance and entire pages in seconds by following this method.

To acquaint the readers of this publication with the easy-to-follow rules for developing rapid reading skill, the company has printed full details of their interesting self-training method in a new book, "Adventures in Reading Improvement," which will be mailed free to anyone who requests it. No obligation. Simply send your request to: Reading Improvement Program, 835 Diversey Parkway, Dept. 2641, Chicago 14, Illinois. A postcard will do.

FUNDAMENTALS OF ACOUSTICS—Lawrence E. Kinsler and Austin R. Frey—Wiley, 2nd ed., 524 p., \$10.75. Expanded chapters on underwater acoustics, ultrasonic and sonar transducers, sound absorption in fluids and sound transmission between fluids.

THE GIANT GOLDEN BOOK OF BIRDS: An Introduction to Familiar and Interesting Birds of the World—Robert Porter Allen—Golden Press, 99 p., illus. by Arthur Singer, \$3.99. Shows 460 different birds in color.

THE GOOD PHYSICIAN: A Treasury of Medicine—William H. Davenport, Ed.—Macmillan, 564 p., \$7. Collection of writings by and about doctors, a tribute to the medical profession.

THE GREAT WORKS OF MANKIND: A Visual History—Jacques Boudet, Claude Manceron and Jacques Ostice, transl. from French by Anne Carter—Golden Press, 293 p., 515 photographs, \$15. In word and picture the book unfolds a panorama of man as a builder, from the pyramids to radio astronomy stations.

HUMANISTIC PSYCHOLOGY—John Cohen—Collier, 220 p., paper, \$1.50. Reprint (1958).

A HUNDRED YEARS OF WAR, 1850-1950—Cyril Falls—Collier, 480 p., 20 maps by B. G. Lewis, paper, \$1.50. A condensed survey by military historian of the characteristics, strategy, tactics, weapons and conduct of war since 1850.

THE INTERPRETATION OF ULTRASTRUCTURE—R. J. C. Harris, Ed.—Academic Press, 438 p., illus., \$14. Based on the Symposium of the International Society for Cell Biology, held in Bern, 1961, presenting critical analysis of current studies on cell ultrastructure, especially those made by electron microscopy.

AN INTRODUCTION TO LOGIC—Morris R. Cohen and Ernest Nagel—Harcourt, 225 p., paper, \$1.65. Reprint (1934), suitable for a one-semester course.

MAN IN PROCESS—Ashley Montagu—New Am. Lib., 278 p., paper, 75¢. Originally published in 1961, anthropologist analyzes man's rational nature as against traditions, myths and irrational beliefs.

MINNESOTA STUDIES IN THE PHILOSOPHY OF SCIENCE, Vol. III: Scientific Explanation, Space and Time—Herbert Feigl and Grover Maxwell, Eds.—Univ. of Minn. Press, 628 p., \$8.50. Includes much that is relevant to general logic and methodology with emphasis on the philosophy of the physical sciences.

PHILOSOPHIES OF HISTORY: Meeting of East and West in Cycle, Pattern Theories of History—Grace E. Cairns, foreword by Pitirim A. Sorokin—Philosophical Lib., 496 p., \$6. Attempts a concise history of the important cyclical conceptions of cosmic and historical processes, from ancient to contemporary.

PHILOSOPHY AND SCIENCE IN THE SIXTEENTH CENTURY—Henry Osborn Taylor—Collier, 156 p., paper, 95¢. Reprint (1920), Book 5 of "Thought and Expression in the Sixteenth Century".

PROCEEDINGS OF THE 1962 INSTITUTE IN TECHNICAL AND INDUSTRIAL COMMUNICATIONS—Herman M. Weisman, Ed.—I.T.I.C., Colo. State Univ., Fort Collins, 163 p., paper, \$5. Papers and discussion of current techniques and trends, evaluating some of the newer approaches.

THE PRODUCTION AND DISTRIBUTION OF KNOWLEDGE IN THE UNITED STATES—Fritz Machlup—Princeton Univ. Press, 416 p., \$7.50. Economist analyzes the "knowledge industries", such as education, research & development, media of communication, information machines, and their effect on economic growth.

RORSCHACH SCIENCE: Readings in Theory and Method—Michael Hirt—Free Press, 438 p., \$8.50. Collection of papers on the projective method, scoring, validation, reliability and current status of the Rorschach test in psychological science.

RUSSIAN FOR BEGINNERS—Charles Duff and Dmitri Makaroff—Barnes & Noble, 368 p., illus., paper, \$1.95. Simplified introduction to grammar.

Art of Argument

By Giles St. Aubyn

Here is a clear, simply written basic guide to logical thinking, showing how to spot fallacies, the prejudices and emotionalism, the inappropriate analogies, etc., in the other fellow's argument and how to watch for and avoid the irrational in your own judgments. The author makes plain not only how but also why people resist facing the truth.

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basic 4,000 word vocabulary, conversation and readings.

SATELLITES, ROCKETS, AND OUTER SPACE—Willy Ley—New Am. Lib., rev. ed., 128 p., illus., paper, 50¢. Updated, color photographs.

SCANDIUM: Its Geochemistry and Mineralogy—L. F. Borisenko, transl. from Russian—Consultants, 78 p., illus., paper, \$17.50. In addition to literature data, the present work is based on seven-year study of rare-metal deposits containing scandium in the Soviet Union.

SCIENTIFIC AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, 1959 and 1960—National Science Foundation, (GPO), 79 p., paper, 55¢. Presents similar, up-to-date information as was given in "Scientists and Engineers in the Federal Government October 1958".

SPACE SYSTEMS ENGINEERING—Francis E. Riley and J. Douglas Sailor—McGraw, 323 p., illus., \$12.50. Provides survey of the field of astronautics from the standpoint of the practicing engineer.

SYMPOSIUM ON ELECTROFORMING: Applications, Uses and Properties of Electroformed Metals—A. D. Squitiero, Chmn.—Am. Soc. for Testing Materials, 202 p., illus., \$6.25.

A TABLE OF INDICES AND POWER RESIDUES: For All Primes and Prime Powers Below 2000—Computed by The University of Oklahoma Mathematical Tables Project, Richard V. Andree, Chmn.—Norton, unpagged, \$10.

THEORETICAL PHYSICS—A. S. Kompaneyets—Dover, 592 p., paper, \$2.45. Unabridged corrected republication of English translation first published in 1961.

• Science News Letter, 83:12 January 5, 1963

MEDICINE

Eye Changes Caused By Drugs for Arthritis

► EYE COMPLICATIONS can result from using anti-malarial drugs such as chloroquine in the treatment of rheumatic disease patients, the American Rheumatism Association's scientific session was told in Richmond, Va.

Chloroquine (trade name Aralen) has been used for some time by patients suffering from rheumatoid arthritis and from two kinds of lupus, systemic lupus erythematosus (SLE) and discoid lupus.

Drs. Paul Henkind and Naomi Rothfield of Bellevue Medical Center, New York, found a variety of eye changes in both lupus and rheumatoid arthritis patients who had received anti-malarial drugs. They suggested that physicians should watch closely for such changes.

Among 56 patients who had received anti-malarials for various lengths of time, 38 had tissue changes in the cornea, while one-half of the 56 had decreased corneal sensitivity. Retina or fundus abnormalities were seen in 17, and 19 or 52 patients had mild lens opacity (condition in which light does not pass through).

If the drug is withdrawn the corneal lesions may disappear but fundus (the back part of the inside of the eye) lesions are considered permanent.

Dr. Nathan Zvaifler of Georgetown University Hospital, Washington, working with Drs. Howard Bernstein and Martin Rubin, reported that analysis of the eye tissues of pigmented rats that had been fed high dosages of chloroquine weekly for six months showed high concentration of chloroquine and of a chloroquine derivative.

So far, no significant eye changes have been observed in malaria patients receiving chloroquine. Such patients usually receive a high drug dosage during one week, but rheumatic disease patients receive long-term treatment.

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