

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.

AUTOMATION—WHAT'S AHEAD—*American Society of Tool Engineers*, 12 p., illus., paper, \$5.00. Single copies free to company executives when requested direct from publisher, 10700 Puritan Ave., Detroit 38, Mich. Findings of a survey of the Society's 34,000 members.

CHEMICAL ENGINEERING KINETICS—J. M. Smith—*McGraw-Hill*, 402 p., \$8.00. Presenting sound design methods for several types of reaction equipment. Suitable for fourth-year undergraduates and graduate students.

THE CHEMISTRY AND TECHNOLOGY OF WAXES—Albin H. Warth—*Reinhold*, 2d ed., 940 p., illus., \$18.00. A ready reference work for chemists and industrialists.

CHINESE PORCELAINS FROM THE ARDEBIL SHRINE—John Alexander Pope—*Freer Gallery, (Smithsonian)* 194 p., 142 plates, \$10.00. Report of a great collection of Chinese porcelains assembled more than 300 years ago on the shores of the Caspian Sea, some 4,000 miles from where they were made.

COMMON EXOTIC TREES OF SOUTH FLORIDA (Dicotyledons)—Mary Franklin Barrett—*University of Florida Press*, 414 p., illus., \$8.50. A book for the botanist or the nature lover to take with him on any trip to Florida. With the botanical description of each tree is a notation telling just where in Florida the tree can be seen.

CRYPTANALYSIS: A Study of Ciphers and Their Solution—Helen Fouche Gaines—*Dover*,

237 p., paper, \$1.95, cloth \$3.95. An inexpensive, student edition of a standard text on modern scientific methods of cryptography.

DEAD TOWNS AND LIVING MEN: Being Pages From an Antiquary's Notebook—Sir Leonard Woolley—*Philosophical Library*, 220 p., illus., \$6.00. A delightful collection of reminiscences of a noted archaeologist.

HUMMER AND BZZ—Louise Dyer Harris and Norman Dyer Harris—*Little, Brown*, 55p., illus. with drawings by Robert Candy, \$2.50. The story of two very different creatures, bird and bee, who buzz from flower to flower, collecting nectar with elongated tongues.

IN SEARCH OF ADAM: The Story of Man's Quest for the Truth About His Earliest Ancestors—Herbert Wendt, translated from the German by James Cleugh—*Houghton Mifflin*, 540 p., illus., \$6.50. The story of prehistory as linked with the lives of men who have contributed to the great search for the earliest ancestor.

MAGIC BULLETS: The Story of Man's Valiant Struggle Against Enemy Microbes—Louis Sutherland—*Little, Brown*, 148 p., illus., \$3.00. Simply told story of the development of modern medicine from the discovery of the microscope.

MEASUREMENTS OF MIND AND MATTER—G. W. Scott Blair—*Philosophical Library*, 115 p., illus., \$4.50. The science of measurement cuts across all the fields of science, from the measurement of the movement of electrons to the measurement of human intelligence. This book is written for the layman.

MINERALS AND THE MICROSCOPE—H. G. Smith, completely revised by M. K. Wells—*Macmillan*, 4th ed., 148 p., illus., \$3.00. A modernized revision of a book known to several generations of students of geology and petrology.

MODERN HYPNOTISM: Key to the Mind—S. J. Van Pelt—*Associated Booksellers*, 88 p., illus., paper \$1.00, cloth \$2.50. A simply written booklet by the president of the British Society of Medical Hypnotists explaining hypnotism for the general practitioner and layman, its dangers and its benefits in the hands of a skilled physician.

NEW CHANNELS FOR THE GOLDEN YEARS—Thomas C. Desmond and others—*New York State Joint Legislative Committee on Problems of the Aging*, 151 p., illus., paper, single copies free upon request to publisher, 94 Broadway, Newburgh, N. Y. Focusing attention on preventive measures directed against poverty and wastage in old age, physical and mental decline, and inter-generation maladjustments.

OCCUPATIONAL HEALTH NURSING—Mary Louise Brown in association with John Wister Meigs—*Springer*, 276 p., \$4.50. Advice and information for the student nurse who is interested in a career in industry.

RURAL WATER SUPPLY AND SANITATION—Forrest B. Wright—*Wiley*, 2d ed., 347 p., illus., \$4.96. Designed with the needs of the school classroom in mind, the subject matter is also of interest to the rural home owner and the farmer who must plan, construct and service his own sanitation system.

SAILING ALONE AROUND THE WORLD—Captain Joshua Slocum—*Dover*, 294 p., illus., paper, \$1.00. A new inexpensive edition of a famous adventure story that first appeared serially in the *Century Illustrated Monthly* magazine in 1899-1900.

THE SHY CHILD—Helen Ross—*Public Affairs Committee*, Public Affairs Pamphlet No. 239, 28 p., illus., paper, 25 cents. Describing different reasons why a child may be slow to join the other children in play when he first goes out into the big world of school or kindergarten, and telling the parent what he can do to help.

SOME FACTS ABOUT PUBLIC STATE TRAINING SCHOOLS FOR JUVENILE DELINQUENTS—U. S. Children's Bureau—*Govt. Printing Office*, 39 p., paper, 25 cents. An estimated 45,000 children were in training schools between October 1, 1952, and Sept. 30, 1953, the period of the survey reported here.

TRANSPORT AND ACCUMULATION IN BIOLOGICAL SYSTEMS—E. J. Harris—*Academic*, 291 p., illus., \$7.80. How inorganic and simple organic substances move between body cells and their surroundings.

THE TRICKSTER: A Study in American Indian Mythology—Paul Radin with commentaries by Karl Kerenyi and C. G. Jung—*Philosophical Library*, 211 p., \$6.00. The trickster myth of the Winnebago Indians was also known to the ancient Greeks, the Chinese, the Japanese and in the Semitic world. The mischievous central character, Dr. Jung explains, represents man's unconscious.

THE UPPER PALEOCENE MAMMALIA FROM THE ALMY FORMATION IN WESTERN WYOMING—C. Lewis Gazin—*Smithsonian*, Miscellaneous Collections, Volume 131, Number 7, 18 p., 2 plates, paper, 35 cents.

YOUR ADOLESCENT AT HOME AND IN SCHOOL—Mary and Lawrence K. Frank—*Viking*, 336 p., \$3.95. Bringing together for parents ideas about adolescents from many different sources.

Science News Letter, August 25, 1956

GEOLOGY

Geologic Study of Sierra Key to Water Problems

► THE KEY to southern California's pressing water problems may lie in the geological history of the Sierra Nevada mountains during the last million years.

This is the opinion of Dr. William C. Putnam, geology professor at the University of California at Los Angeles, who is compiling the geological history of the rugged mountain range.

Dr. Putnam's studies have been concentrated in the upper end of the Owens Valley and along the eastern margin of the Sierra, an area vital to Los Angeles water supply. They showed that periods of drought have alternated with periods of more than abundant water supply, and that these periods can be correlated with glacial activity. As glaciers receded, desert drought increased.

Other phases of the study are related to a chain of lakes and spillways once connecting Mono Lake to Death Valley. This lake chain and connecting overflow channels dwindled and in part disappeared with glacial recession.

Dr. Putnam believes further geological study of the region is important to long-range planning in bringing water to southern California. A better understanding of climatic cycles is needed and engineering aspects demand more detailed geological information, he said.

Science News Letter, August 25, 1956

A MATH COURSE THAT FIGURES!

More and more in our dynamic economy, a knowledge of basic mathematics pays off!

Whether in Engineering, Electronics, Mechanics, Construction, Pure Science, etc.—or in Estimating, or Trade and Finance, or Buying and Selling, etc.—the man who gets there *fastest* with the *mostest*, MATH-WISE, is likely to be rewarded *handsomest!*

Fortunately, there now exists, in a single volume of 240 fact-packed pages (including 195 clarifying illustrations), a basic course in mathematics, from arithmetic to the calculus, arranged logically and in order of difficulty. Explanations of principles are followed by worked examples.

This one-volume math "library" economizes not only your money but, more important, your time. Amazingly, the author, with a rare talent for simplifying the complicated, covers the whole gamut: treatment of fractions, decimals, square root and cube root, logarithms, progression averages, interest, algebra, equations, graphs, plane and solid geometry, trigonometry, differential and integral calculus; useful mathematical tables; summary of mathematical formulas, etc., etc.

This remarkable work which already has aided thousands, will be of enormous help not only to those who have forgotten their mathematics but also to those now acquiring it. You may try it out at our risk. ORDER NOW:

A REFRESHER COURSE IN MATHEMATICS
by F. J. Camm

240 Pages • 195 Illustrations
2.95 Postfree • 10-Day Money-Back Guarantee
EMERSON BOOKS, Inc., Dept. 839-K
251 W. 19th Street, New York 11