

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.

ANALYTICAL EXPERIMENTAL PHYSICS—Michael Ference Jr., Harvey B. Lemon and Reginald J. Stephenson—*University of Chicago Press*, 2d rev. ed., 623 p., illus., \$8.00. Revised edition of an established text intended for the student who expects to be a physicist.

THE ANATOMY OF THE HEAD OF CTENOSAURA PECTINATA (IGUANIDAE)—Thomas M. Oelrich—*Museum of Zoology, University of Michigan*, Miscellaneous Publications, No. 94, 122 p., illus., paper, \$1.85. Presenting the gross anatomy of this reptile in such detail that it may aid in the understanding of osseous elements of fossil forms.

ARCHAEOLOGY FROM THE EARTH—Sir Mortimer Wheeler—*Penguin*, 252 p., illus., paper, 85 cents. There is no right way of digging, the author declares, but there are many wrong ways. He indicates some of the better ways under certain circumstances.

ATOMIC ENERGY AND CONGRESS—Morgan Thomas in collaboration with Robert M. Northrop—*University of Michigan Press*, 301 p., \$4.75. Discussing the political aspects of the development of atomic energy in the United States.

DEMOGRAPHIC YEARBOOK (ANNUAIRE DEMOGRAPHIQUE) 1955: Population Censuses—Statistical Office of the United Nations—*United Nations*, 7th issue, 781 p., paper \$7.00, cloth \$8.50. Population statistics.

ESSENTIALS IN PROBLEM SOLVING—Zuce Kogan

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—*Arco*, 2d ed., 119 p., illus., \$4.00. A book for the practical man faced with a multitude of problems needing immediate solutions.

THE FUNCTIONS OF SOCIAL CONFLICT—Lewis A. Coser—*Free Press*, 188 p., \$3.50. Combating the tendency to regard all social conflicts as undesirable.

GOVERNMENT CONTRACTING IN ATOMIC ENERGY—Richard A. Tybout—*University of Michigan Press*, 226 p., \$4.50. A primary feature of the atomic energy industry in America is its reliance upon public ownership and private operation, a combination relatively new in the history of American industry.

HEALTH YEARBOOK 1955—Oliver E. Byrd, Ed.—*Stanford University Press*, 339 p., \$4.50. Health facts in convenient form for reference.

HEREDITY COUNSELING: Its Services and Centers—Helen G. Hammons—*American Eugenics Society*, 16 p., paper, 25 cents. Answering questions about the heredity of your baby and telling where you can get further information.

HIGGINS FLAT PUEBLO, WESTERN NEW MEXICO—Paul S. Martin, John B. Rinaldo, Elaine A. Bluhm and Hugh C. Cutler—*Chicago Natural History Museum*, Fieldiana: Anthropology, Volume 45, 218 p., illus., paper, \$4.50. This pueblo was occupied for perhaps 50-75 years ending about the year 1250 A.D. The inhabitants apparently worked off their tensions by altering their houses.

HOW TO CALCULATE QUICKLY (THE ART OF CALCULATION)—Henry Sticker—*Dover*, 256 p., paper, \$1.00. An unabridged republication of a work first published under the title, "The Art of Calculation," by Duell, Sloan and Pearce. Exercises, graduated in difficulty, that will facilitate figuring.

LAND OF THE LONG DAY—Doug Wilkinson—*Holt*, 261 p., \$4.00. Telling of the life of a man who lived with an Eskimo family as an adopted son.

MANAGEMENT OF STROKES—Keith W. Sheldon—*Lippincott*, 134 p., illus., \$3.00. Intended to dispel the foggy thinking about the so-called "stroke."

MODERN MARINE ENGINEERING—D. W. Rudorff—*Philosophical Library*, 154 p., illus., \$4.75. A concise review of the various types of propulsion plants now in use in vessels for different services.

MODERN NAVAL ARCHITECTURE—W. Muckle—*Philosophical Library*, 154 p., illus., \$4.75. Giving an account of the various problems the naval architect must solve.

PLANT PHYSIOLOGY—Meirion Thomas with the collaboration of S. L. Ranson and J. A. Richardson—*Philosophical Library*, 4th rev. ed., 692 p., illus., \$12.00. Revised edition of an established text.

THE POLLEN PATH: A Collection of Navajo Myths—Retold by Margaret Schevill Link with a psychological commentary by Joseph L. Henderson—*Stanford University Press*, 208 p., illus., \$6.00. Covering the basic myth elements of the Navajo religion and culture. They are gathered from many sources over a period of 25 years.

PRACTICAL MARINE ENGINEERING—Reno C. King Jr.—*Prentice Hall* 2d ed., 541 p., illus., \$7.35. Outgrowth of lectures given to applicants for Merchant Marine Engineering Officer licenses.

SAFETY THROUGH STEEP GRADIENT AIRCRAFT: Supplement to 1955 Survey Reviewing Status and Special Problems of Vertical (VTOL) and Short (STOL) Take-off and Landing Types of Aircraft—R. M. Woodham—*Daniel & Florence Guggenheim Aviation Safety Center at Cornell University*, 43 p., illus., paper, 75 cents; or with the 1955 survey, \$1.50. Aircraft of "weird" design may be the defense against the complaints of intolerable noise.

STUDIES FOR STUDENT PILOTS—Michael Royce—*Philosophical Library*, 282 p., illus., \$6.00. Treatment of five basic subjects including meteorology, theory of flight, navigation, instruments and engines.

TRACE ELEMENTS IN HUMAN AND ANIMAL NUTRITION—E. J. Underwood—*Academic*, 430 p., illus., \$9.50. The history of trace elements, the author comments, is as stimulating and as romantic as that of vitamins.

WORK AND AUTHORITY IN INDUSTRY: Ideologies of Management in the Course of Industrialization—Reinhard Bendix—*Wiley*, 466 p., \$7.50. Reporting one of a broad series of studies of the evolution of labor-management relations in widely different social and economic settings.

Science News Letter, May 26, 1956

ENGINEERING

Wide-Shoulder Roads Have More Accidents

➤ MORE ACCIDENTS occur on heavily traveled roads with wide shoulders than on similar roads with narrow shoulders.

A study of accidents on 1,122 road sections in California led a University of California traffic engineer to conclude that wide shoulders encourage faster driving and reduce caution on the part of drivers.

The road sections studied, each one mile long, were in rural areas with 55 m.p.h. nominal speed limits. Only those accidents resulting in injuries were included in the investigation.

On roads averaging less than 2,000 vehicles a day, the trend was reversed. Accidents were fewer on less-traveled highways with wide shoulders than on similar roads with narrow shoulders.

Each road had paved shoulders bordered by not more than one foot of soft shoulder.

The study was made by D. M. Belmont, associate research engineer with the University of California's Institute of Transportation and Traffic Engineering.

Science News Letter, May 26, 1956

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