

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.

... the authors

Most of the books written by Laboratories authors are published by D. Van Nostrand Company. Other publishers include John Wiley & Sons and McGraw-Hill. Subjects include speech and hearing, mathematics, transmission and switching circuits, networks and wave filters, quality control transducers, servomechanisms, quartz crystals, capacitors, visible speech, earth conduction, radar, electron beams, microwaves, waveguides, antennas, traveling-wave tubes, semiconductors, ferromagnetism.



Harold S. Black, B.S. in E.E., Worcester Polytechnic Inst., author of "Modulation Theory."



John R. Pierce, Ph.D., California Inst. of Tech., author of "Traveling-Wave Tubes."



Richard M. Bozorth, Ph.D., California Inst. of Tech., author of "Ferromagnetism."



W. Thornton Read, M.S., Brown University, author of "Dislocations in Crystals."



Hendrik W. Bode, Ph.D., Columbia University, author of "Network Analysis and Feedback Amplifier Design."



Walter A. Shewhart, Ph.D., University of California, author of "Economic Control of Quality of Manufactured Product."

THE DESERT SPEAKS: The Founding, Building and Objectives of the Arizona-Sonora Desert Museum—William H. Carr—*Arizona-Sonora Desert Museum*, 49 p., illus., paper, 60 cents. A delightful account of a cross-section of desert life arranged for all to see and enjoy.

ELECTRICITY AND MAGNETISM—Verne N. Rockcastle—*New York State College of Agriculture*, Cornell Rural School Leaflet Volume 50, Number 3, 31 p., illus., paper, 20 cents. Introducing young people to electricity with a series of simple experiments that teach as they provide fun.

FACTORS INFLUENCING GROUND FREEZING—T. William Lambe and others—*Highway Research Board*, Bulletin 135, 165 p., illus., paper, \$3.40. Discussing the fundamental processes of freezing and thawing as well as means for solving practical problems associated with frost action in soil.

FIBRES, PLASTICS, AND RUBBERS: A Handbook of Common Polymers—W. J. Roff—*Academic*, 400 p., \$10.00. Containing chemical, physical and general information on common high polymers for ready reference by those engaged in industrial research.

HEAT AND THERMODYNAMICS: An Intermediate Textbook for Students of Physics, Chemistry, and Engineering—Mark W. Zemansky—*McGraw-Hill*, 4th ed., 484 p., illus., \$7.50. Only prerequisites are a course in general college physics and one in calculus.

INDUSTRIAL PERSONNEL SECURITY REVIEW PROGRAM FIRST ANNUAL REPORT—Jerome D. Fenton, director—*Govt. Printing Office*, Office Personnel Security Policy, 193 p., paper, 60 cents. Detailed case studies give an idea of problems faced by Government officials in trying to protect the national security.

INTELLIGENCE IN THE UNITED STATES: A Survey with Conclusions for Manpower Utilization in Education and Employment—John B. Miner—*Springer*, 180 p., \$4.25. Some method of getting the children of slum districts into good schools by the age of three or four is recommended so that the schools can provide some of the motivation to learn that is lacking in poor homes.

THE MANY USES OF THE ATOM—Waldemar Kaempffert—*Foreign Policy Association*, Headline Series, Number 117, 62 p., illus., paper, 35 cents. The late Mr. Kaempffert was for many years science editor of the *New York Times*.

THE NATIONAL RESEARCH COUNCIL REVIEW 1956—E. W. R. Steacie, president—*National Research Council, Canada*, 284 p., illus., paper, 75 cents. Describing research of the Canadian Council during 1955. Chiefly of interest to researchers.

NOTES ON ATOMIC ENERGY FOR MEDICAL OFFICERS: An Introduction to the Subject for Service and Other Medical Officers Who May Be Concerned With Defence Against Atomic Bombs and Similar Problems—Royal Naval Medical School—*Philosophical Library*, 169 p., illus., \$4.75. A pocket-size book providing basic information about short- and long-term effects of radiation and the physics needed to understand it.

SCIENCE IN THE MAKING—Joel H. Hildebrand—*Columbia University Press*, 116 p., illus., \$3.00. In these lectures, the author, an outstanding chemist, indicates that the scientist needs no special "method." What he needs is

ingenuity, determination and experimentation.

SCIENTIFIC INFERENCE—Sir Harold Jeffreys—*Cambridge University Press*, 2d ed., 236 p., \$4.75. Written from the standpoint that scientific method can be understood only if a theory of epistemological probability is provided. The theory is developed here more fully than in the first edition.

A SCIENTIFIC SAMPLER—Raymond Stevens, Howard F. Hamacher and Alan A. Smith—*Van Nostrand*, 413 p., illus., \$6.00. A selection of reports, predictions and reflections chosen from the 30-year file of the *Industrial Bulletin*.

SEA TREASURE: A Guide to Shell Collecting—Kathleen Yerger Johnstone—*Houghton Mifflin*, 242 p., illus. by Rudolf Freund and Rene Martin, \$4.00. An introduction by a shell enthusiast to the interesting hobby of shell collecting.

THE SEVEN CAVES: Archaeological Explorations in the Middle East—Carleton S. Coon—*Knopf*, 354 p., illus., \$5.75. Cave-digging is important, the author tells us, because caves were principally occupied during that critical period when modern European men first appeared on the scene. This account, written by the scientist who dug the caves, is intended for the layman and technical language is avoided. (See p. 136.)

SOCIAL SCIENCE RESEARCH COUNCIL ANNUAL REPORT—Pendleton Herring, president—*SSRC*, 102 p., paper, free upon request direct to publisher, 230 Park Ave., New York 17, N. Y. Reporting major activities of the organization in advancing research in the social sciences.

STATISTICS OF STATE SCHOOL SYSTEMS: Organization, Staff, Pupils, and Finances 1953-54—Samuel Schloss and Carol Joy Hobson—*Govt. Printing Office*, Office of Education Biennial Survey of Education in the United States, 1952-54, Chapter 2, 141 p., paper, 55 cents. The material in this report represents the cooperative efforts of an estimated 1,350,000 persons.

THE UNDERWATER WORLD: A Complete Guide to Diving, Spearfishing, and Other Underwater Secrets—John Tassos—*Prentice-Hall*, 242 p., illus., \$4.95. A how-to-do-it book introducing an exciting new hobby.

WORK AND LIFE ON RAROIA: An Acculturation Study From the Tuamotu Group French Oceania—Bengt Danielsson—*Macmillan*, 244 p., illus., \$5.75. Contributing to a better knowledge of a little-known Polynesian group and to the understanding of what caused the changes that occurred after contact with Europeans.

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