

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.

ACOUSTICS—Leo L. Beranek—*McGraw-Hill*, 481 p., illus., \$9.00. A text for college seniors and first-year graduate students. The author is an associate professor at Massachusetts Institute of Technology.

BACK OF HISTORY: The Story of Our Own Origins—William Howells—*Doubleday*, 384 p., illus., \$5.00. The story of man's beginning starts way back before man was, some 75,000,000 years ago. The story is here unfolded in readable fashion.

BIOLOGICAL APPLICATIONS OF FREEZING AND DRYING—R. J. C. Harris, Ed.—*Academic*, 415 p., illus., \$10.00. Since development during the war of the technique of freeze-drying as a method of preserving blood plasma and penicillin, it has been found useful for keeping a wide variety of biological products.

A BRIEF TEXT IN ASTRONOMY—William T. Skilling and Robert S. Richardson—*Holt*, 327 p., illus., \$4.00. For the student who has time for only a one-semester course in this engrossing subject.

THE CAUSES AND TREATMENT OF BACKWARDNESS—Sir Cyril Burt—*Philosophical Library*, 128 p., \$3.75. Chief aim of this practical book, directed to teachers, is to show that the treatment of the retarded child must be not only sympathetic but also scientific.

CIVIL AIR REGULATIONS FOR PILOTS—Associated Aeronautical Staff—*Aero Publishers*, 14th ed., 88 p., paper, \$1.75. A reference guide. Contains a reprinting of Civil Aeronautics Bulletin No. 32 on Fundamentals of Elementary Flight Maneuvers.

COLLEGE BOTANY—Harry J. Fuller and Oswald Tippo—*Holt*, rev. ed., 993 p., illus., \$6.90. A general introduction to botany at the college level, with considerable material on the economic uses of plants and information useful to the student of applied plant sciences.

COLLEGE TEXTBOOK OF PHYSICS—Arthur L. Kimball, revised by Alan T. Waterman—*Holt*, 6th ed., 942 p., illus., \$7.95. A college text which first appeared 40 years ago.

THE COMPARATIVE MYOLOGY OF THE MAMMALIAN GENERA SIGMODON, ORYZOMYS, NEOTOMA, AND PEROMYSCUS (CRICETINAE), WITH REMARKS ON THEIR INTERGENERIC RELATIONSHIPS—George C. Rinker—*University of Michigan Press*, Miscellaneous Publications Museum of Zoology, University of Michigan, No. 83, 124 p., illus., paper, \$1.25.

REFRESHER COURSE IN MATHEMATICS

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CURRENT THERAPY 1954: Latest Approved Methods of Treatment for the Practicing Physician—Howard F. Conn, Ed.—*Saunders*, 898 p., \$11.00. Intended to bring to the busy practicing physician news of current methods of treatment in a form that is authoritative and easy to make use of. A roster of drugs and useful tables are included.

ECONOMIC PROGRESS AND ECONOMIC CHANGE—Solomon Fabricant—*National Bureau of Economic Research*, 34th Annual Report, 97 p., paper, free upon request direct to publisher, 261 Madison Ave., New York 16, N. Y.

FERROMAGNETIC DOMAINS—K. H. Stewart—*Cambridge University Press*, 176 p., illus., \$4.75. One of the Cambridge Monographs on Physics that are intended to present the results of recent research.

FIFTY YEARS OF MEDICINE—Lord Horder—*Philosophical Library*, 70 p., \$2.50. Reminiscences of his own years in the medical profession.

FUNDAMENTAL PRINCIPLES OF BACTERIOLOGY—A. J. Salle—*McGraw-Hill*, 4th ed., 782 p., illus., \$8.50. Intended to provide the beginner with a solid foundation for more advanced work. This edition has been completely revised.

GENERAL CHEMISTRY—P. W. Selwood—*Holt*, rev. ed., 657 p., illus., \$6.00. For the student whose major interest may or may not be in chemistry.

GENERAL COLLEGE CHEMISTRY—Andrew J. Scarlett and Jose Gomez-Ibanez—*Holt*, 645 p., illus., \$6.00. A first-year college text.

GEORGE DAVIDSON: Pioneer West Coast Scientist—Oscar Lewis—*University of California Press*, 146 p., illus., \$3.50. Biography of one who played a preeminent part in the advancement of our knowledge of the geography of the Pacific Coast. He also built and equipped the first astronomical observatory on the Pacific Coast.

GREEKA: Eagle of the Hebrides—Joseph E. Chipperfield—*Longmans, Green*, 236 p., illus., \$3.00. A romantic and poetically written story of an eagle who was captured and carted off to a zoo, but at last escaped and made his way back to his faithful mate. Incidentally, the story of the rugged landscape of the Hebrides.

HEALTH FOR EFFECTIVE LIVING: A Basic Health Education Text for College Students—Edward B. Johns, Wilfred C. Sutton, and Lloyd E. Webster, adviser and consultant Walter H. Brown with foreword by Bernice Moss—*McGraw-Hill*, 473 p., illus., \$4.75. A college text, especially for students in freshman or sophomore required courses.

INDEX TO THE LITERATURE ON SPECTROCHEMICAL ANALYSIS: Part III, 1946-1950—Bourdon F. Scribner and William F. Meggers—*American Society for Testing Materials*, 226 p., paper, \$4.50, all three parts, \$7.50. This part brings the total of references up to 1,264. Listed chronologically and alphabetically by first author's name.

INSECT FACT AND FOLKLORE—Lucy W. Clausen—*Macmillan*, 194 p., illus., \$3.50. An entomologist of the American Museum of Natural History here tells true and romantic tales of the insects that interest, entertain and enchant us, as well as those that plague us.

INTRODUCTION TO PSYCHIATRY—O. Spurgeon

English and Stuart M. Finch—*Norton*, 621 p., \$7.00. A textbook oriented along psychoanalytic lines.

INTRODUCTION TO STATISTICAL THERMODYNAMICS—Malcolm Dole—*Prentice-Hall*, 250 p., illus., \$6.25. A text on a subject that, the author says, bridges the gap between thermodynamics and kinetics on the one hand and between chemistry and physics on the other.

A LINE-FORMULA CHEMICAL NOTATION—William J. Wiswesser—*Crowell*, 149 p., \$2.00. Describing a new method by which even complicated chemical structures may be expressed concisely and without ambiguity in a single line of letters, numbers and punctuation marks.

MAKING BETTER USE OF THE HUMAN FACTOR IN SELLING—M. J. Dooher, Ed.—*American Management Association*, Marketing Series Number 93, 32 p., paper, \$1.25.

MANUAL OF THE ICAO STANDARD ATMOSPHERE: Calculations by the NACA—International Civil Aviation Organization, Montreal, Canada, and Langley Aeronautical Laboratory—*National Advisory Committee for Aeronautics*, Technical Note 3182, 132 p., paper, limited number of copies free upon request direct to publisher, Washington 25, D. C.

METHODS OF CROP FORECASTING—Fred H. Sanderson—*Harvard University Press*, 259 p., \$5.00. The author, who was formerly economist and statistician for the Crop Reporting Service, here evaluates recent developments in the field.

MICROBIOLOGY OF MEATS—Lloyd B. Jensen—*Garrard*, 3d ed., 422 p., \$6.00. Much new technological material has recently become available. Obsolete material has been deleted.

MOUNTAINS IN THE DESERT—Louis Carl and Joseph Petit—*Doubleday*, 318 p., illus., \$3.95. Describing a trip by camel across the Sahara taken by two young French archaeologists in search of some beautiful prehistoric drawings.

THE NATURE OF SCIENCE AND OTHER LECTURES—Edwin Hubble—*Huntington Library*, 83 p., illus., \$2.00. A noted astronomer expresses his philosophy and tells what he thinks must be done to prevent "the war that must not happen."

A NEW FLYCATCHER FROM VENEZUELA, WITH REMARKS ON THE MOCQUERYS COLLECTION AND THE PICULET, PICUMNUS SQUAMULATUS—John T. Zimmer and William H. Phelps—*American Museum of Natural History*, Novitates No. 1657, 7 p., illus., paper, 25 cents.

NEW HANDBOOK OF THE HEAVENS—Hubert J. Bernhard, Dorothy A. Bennett and Hugh S. Rice—*New American Library*, 272 p., illus., paper, 50 cents. Pocket edition of a book originally published by *McGraw-Hill*. Written for home astronomers, both beginners and more advanced students.

A NEW HARVEST MOUSE OF THE GENUS REITHRODONTOMYS FROM TAMAULIPAS, MEXICO—George G. Goodwin—*American Museum of Natural History*, Novitates, No. 1660 3 p., paper, 25 cents.

NUTRITIONAL FACTORS AND LIVER DISEASES—Klaus Schwarz, Chairman—*New York Academy of Sciences*, 348 p., illus., paper, \$4.50. Bringing together a variety of contributions to the field so as to integrate present knowledge.

ORGANIC CHEMISTRY: A One-Semester Course—Lawrence H. Amundsen—*Holt*, 368 p., illus., \$4.75. For the student who does not intend to prepare for chemistry as a profession.

THE PACIFIC NORTHWEST: An Overall Appreciation—Otis W. Freeman and Howard H. Martin, Eds.—*Wiley*, 2d ed., 540 p., illus., \$8.50. Seven of the original contributors of this work are now dead and others have moved away from the area. Replacing them are 13

new authors. The book has been completely revised.

QUALITATIVE ANALYSIS AND CHEMICAL EQUILIBRIUM—T. R. Hogness and Warren C. Johnson—*Holt*, 4th ed., 621 p., illus., \$5.00. This edition is intended as a first step toward the integration of qualitative analysis with general chemistry.

RACES OF THE AFRICAN FINFOOT (AVIS, HELIORNITHIDAE)—James P. Chapin—*American Museum of Natural History*, Novitates, No. 1659, 10 p., illus., paper, 25 cents.

THE REPRODUCTION OF COCKROACHES—Louis M. Roth and Edwin R. Willis—*Smithsonian*, 49 p., illus., paper, 80 cents. Cockroaches and how they multiply are important not only because they rob our pantries, but because they may also spread disease among us.

SCIENTIFIC RESEARCHES OF MELLON INSTITUTE 1953-1954—Edward R. Weidlein, President—*Mellon Institute*, 56 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. The annual report of accomplishments.

SHIPS, MACHINERY AND MOSSBACKS: The Autobiography of a Naval Engineer—Vice Admiral Harold G. Bowen—*Princeton University Press*, 397 p., \$6.00. The Navy led in steam, the author explains, and many other phases of engineering, pioneered in electronics and, for a long time, was the only and always the staunchest supporter in the Government of basic and applied research.

THE SIX SCHIZOPHRENIAS: Reaction Patterns in Children and Adults—Samuel J. Beck with clinical introduction by Roy R. Grinker and a chapter concerning Q Methodology by William Stephenson—*American Orthopsychiatric Association*, Research Monographs No. 6, 238 p., \$5.00. Report of research conducted at the Michael Reese Hospital, Chicago, by three scientific disciplines.

SMITHSONIAN PHYSICAL TABLES—William Elmer Forsythe—*Smithsonian*, 9th ed., Miscellaneous Collections, Volume 120, 827 p., paper \$9.00, cloth \$10.00. For the reference shelf of scientists and engineers.

STRATIGRAPHY AND HISTORY OF THE MOENKOPI FORMATION OF TRIASSIC AGE—Edwin D. McKee—*Geological Society of America*, Memoir 61, 133 p., illus., \$3.00. Describing a series of deposits that form a wedge thinning eastward from a maximum of about 2,000 feet in western Utah and southern Nevada to a vanishing point in western Colorado, northeastern Arizona and western New Mexico.

SYMPOSIUM ON FLUORESCENT X-RAY SPECTROGRAPHIC ANALYSIS—E. B. Ashcraft and others—*American Society for Testing Materials*, 68 p., illus., paper, \$1.75. In recent years, improvements in the generation of high intensity X-ray beams and in means for measuring them made the X-ray method feasible for quantitative analysis.

A SYNOPSIS OF CHILDREN'S DISEASES—John Rendle-Short—*John Wright & Sons (Williams and Wilkins)*, 608 p., \$7.00. Providing in outline form tables showing normal development and details of various diseases and abnormalities in children.

SYSTEMATIC NOTES ON PALEARCTIC BIRDS: No. 4, The Choughs (Pyrrhocorax)—Charles Vaurie—*American Museum of Natural History*, Novitates, No. 1658, 7 p., paper, 25 cents.

THEMES IN FRENCH CULTURE: A Preface to a Study of French Community—Rhoda Metraux and Margaret Mead—*Stanford University Press*, Hoover Institute Studies, Series D: Communities, No. 1, 120 p., paper, \$1.50. To understand the French people and their attitudes toward public questions, it is necessary to know

something of how they feel toward their homes, family and circle of intimate associates.

THIRTY-EIGHTH ANNUAL REPORT OF THE NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS 1952: Including Technical Reports Nos. 1059 to 1110—Jerome C. Hunsaker, Chairman—*Govt. Printing Office*, 1191 p., illus., \$8.75. This report tells the story of practical supersonic flight becoming a reality.

THREE NEW SUBSPECIES OF BIRDS FROM AFRICA—Dean Amadon—*American Museum of Natural History*, Novitates, No. 1656, 4 p., paper, 25 cents.

TIME COUNTS: The Story of the Calendar—Harold Watkins with a foreword by Lord Merthyr—*Philosophical Library*, 274 p., illus., \$4.75. An account of the various movements for calendar reform together with the history of man's attempt to count his days.

A TREATISE ON CONIC SECTIONS CONTAINING AN ACCOUNT OF SOME OF THE MOST IMPORTANT MODERN ALGEBRAIC AND GEOMETRIC METHODS—George Salmon—*Chelsea*, 6th ed., 399 p., paper \$1.94, cloth \$3.25.

TREATMENT OF WITHDRAWAL SYMPTOMS OF PERSONS ADDICTED TO NARCOTIC DRUGS—Hubert S. Howe and Lynn Stratton Morris—*Welfare and Health Council of New York City*, 24 p., paper, \$1.00.

URBAN TRAFFIC CONGESTION: Presented at the Thirty-third Annual Meeting, January 12-15, 1954—John W. Gibbons and others—*Highway Research Board*, Bulletin 86, 39 p., illus., paper, 60 cents. Presenting a scientific method for tackling the irksome problem of traffic congestion.

V-2—Walter Dornberger, translated by James Cleugh and Geoffrey Halliday with introduction by Willy Ley—*Viking*, 281 p., illus., \$5.00. Here is the story of the Peenemünde research institute, the great experimental rocket station in Germany where the V-2 was developed, written by General Dornberger who was in charge of that station. It tells much of the struggle of German scientists attempting to work under a totalitarian regime.

THE VOTER DECIDES—Angus Campbell, Gerald Gurin and Warren E. Miller with the assistance of others—*Row, Peterson*, 242 p., \$4.75. Reporting a study of the 1952 election by the Survey Research Center of the University of Michigan. It was the influence of "Ike" himself rather than any new popularity of the Republican party that carried the day. And it was Eisenhower's competence in the field of foreign affairs that gave people confidence in him.

Science News Letter, July 3, 1954

TECHNOLOGY

Endless Belt for Coal and Iron Ore

➤ AN ENDLESS belt linking Lake Erie with the Ohio River 100 miles away has been designed to shuttle iron ore and coal from river barge to lake carriers or storage bins.

Legislation will be introduced in the Ohio Legislature in 1955, to give the belt conveyor the status of a common carrier, the Goodyear Tire and Rubber Company, Akron, has announced.

A model of the Riverlake Belt Conveyor Lines System has been built for display throughout Ohio. It contains 6,776 working parts and carries "make-believe" iron ore and miniature coal.

Science News Letter, July 3, 1954

ARCHAEOLOGY

Ancient Stone Idols Discovered in Georgia

➤ TWO STONE idols, one male and one female, have been found near a stone grave in the important ancient Indian Etowah mound near Cartersville, Ga.

The figures are seated and are about two feet high. The bodies are carved in remarkable detail and are painted. They are also decorated with copper plates and wear headdresses.

Apparently none of the early European explorers visited Etowah during its occupation. It is strictly prehistoric.

The stone idols, or images, were found by an expedition sponsored by the Georgia Historical Commission in cooperation with State Park Service. Archaeologist in charge is Dr. Lewis H. Larson Jr., who is working under the direction of Dr. Arthur R. Kelley of the University of Georgia.

The figures are like others which were found in the Etowah mounds in the 1920's by the late Dr. Warren K. Moorehead, then of Phillips Academy, Andover, Mass.

The newly found figures, like those discovered previously, suggest strongly a link between the Etowan people who made them and the Aztecs of far-away Mexico and Yucatan. Certain prevailing concepts are apparent in both the Etowan and Aztec art, notably the posture of the seated figure. Yet the Etowah art has been pronounced inferior to that of the Aztecs.

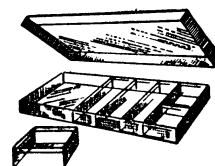
If the Aztec concepts of art were introduced in Georgia by migration from Mexico, it must have been at a very early date, archaeologists speculate. Possibly, travelers coming from Mexico may have described the art they saw there or even brought with them some objects which were then copied by the Etowan people.

Another theory has been proposed by Dr. Moorehead, and that is that the Muskogean culture of the Etowan people might have developed in our Southland and the migration might have been westward to Mexico instead of in the reverse direction.

Little evidence is available one way or the other, but archaeologists feel that when it has been possible to find the exact origin of Indian corn and trace the pathways of its distribution, much more will be known about how this continent was originally peopled.

Science News Letter, July 3, 1954

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