

• First Glances at New Books

Additional Reviews
On Page 160

ENGINEERING

MODEL GASOLINE ENGINES, Their Operation and Use—Raymond F. Yates—*Appleton-Century*, 241 p., illus., \$2.50. No longer are builders of model airplanes, boats, etc., limited to spring motors, rubber bands and the like to power their craft, for recent years have seen the introduction of highly reliable and efficient little gasoline engines. This, said to be the first book entirely devoted to the subject, will be of great interest to all model builders, or others wanting information about tiny power plants.

Science News Letter, March 8, 1941

ICHTHYOLOGY—JUVENILE

SALMON—Pennsylvania Work Projects Admin.—*Albert Whitman*, 48 p., illus., 50c. A highly informative little book about a highly important food fish, designed for pupils in the lower grades.

Science News Letter, March 8, 1941

HISTORY

STORY OF CIVILIZATION — Carl L. Becker and Frederic Duncalf — *Silver Burdett*, 881 p., illus., maps, \$2.40. Approximately half of this up-to-date text reviews the ancient and medieval past. The latter half takes up modern civilization, analyzing the political and social revolution which has occurred, and the industrial revolution.

Science News Letter, March 8, 1941

PALEOBOTANY

SOME FOSSIL PLANT TYPES OF ILLINOIS — Raymond E. Janssen — *Illinois State Museum*, 124 p., 28 pl., \$1.25. A monograph of the Lesquereux types in the Illinois State Museum, together with new material from the Mazon Creek deposits. Descriptions are careful and accurate, and the photographic plates are extremely good. This publication initiates a new series by the Illinois State Museum; if subsequent numbers maintain the standard set by this first one, it will be a credit to the sponsoring institution.

Science News Letter, March 8, 1941

BOTANY—MEDICINE

PLANTS USED AS CURATIVES BY CERTAIN SOUTHEASTERN TRIBES — Lyda Averill Taylor—*Botanical Museum of Harvard Univ.*, 88 p., \$2. A study in ethnobotany that will interest the physician and pharmacologist no less than the botanist and ethnologist. The plants are arranged according to botanical families, and with

each listing is given a description of the Indians' preparation and uses of the plant, together with actual medicinal value, if any. The proportion of plants really useful in medicine is surprisingly high.

Science News Letter, March 8, 1941

GENERAL SCIENCE

ANNUAL REPORT OF THE SECRETARY OF THE INTERIOR FOR THE FISCAL YEAR ENDING JUNE 30, 1940—U. S. Dept. of Interior—*Govt. Print. Off.*, 528 p., illus., 75c.

Science News Letter, March 8, 1941

AGRICULTURE—ECONOMICS

DEMOCRACY COMES TO A COTTON KINGDOM, The Story of Mexico's La Laguna—Clarence Senior—*Distributed in U. S. by: League for Industrial Democracy, New York, N. Y.*, 56 p., 15c. Account of a cooperative cotton-farming project in Mexico.

Science News Letter, March 8, 1941

ENGINEERING—CHEMISTRY

THE APPLICATIONS OF CHEMICAL ENGINEERING—Harry McCormack, ed.—*Van Nostrand*, 431 p., \$3.75. A chemical engineer has to put into practice many principles of physics as well as of chemistry. This book, the cooperative effort of twelve chemical engineering professors, is a laboratory manual to train the embryo Ch. E. in these applications. They include measurements of temperature, flow of liquids, distillation, drying, etc.

Science News Letter, March 8, 1941

MATHEMATICS

COLLEGE ALGEBRA—Harold T. Davis—*Prentice-Hall*, 423 p., \$2.50. Dr. Davis has made this new text-book particularly interesting by many references to historical incidents connected with the matters treated, and to their present applications. Of particular value is the chapter on statistics, which constitutes an excellent introduction to this subject. Also of note is the chapter on mathematical recreations, covering such perennially misunderstood things as the trisection of the angle and the squaring of the circle.

Science News Letter, March 8, 1941

BOTANY

LIST OF SHRUBS EXCLUSIVE OF CONIFERS GROWING OUTDOORS IN THE BROOKLYN BOTANIC GARDEN, 1940—Charles F. Doney—*Brooklyn Botanic Garden*, 35 p., illus., 25 c.

Science News Letter, March 8, 1941

MATHEMATICS

RAMANUJAN, Twelve Lectures on Subjects Suggested by His Life and Work—G. H. Hardy—*Cambridge (Macmillan)*, 236 p., \$6. Srinivasa Ramanujan was the Indian genius who, despite a somewhat deficient education, was one of the world's great mathematicians when he died at the age of 33 in 1920. In the first of these essays, Dr. Hardy, who probably knew him best, gives a general account of his career. The others are devoted to various mathematical subjects with which he was connected.

Science News Letter, March 8, 1941

NUTRITION

FOODS AND NUTRITION—Fern Silver—*Appleton-Century*, 522 p., illus., \$1.72. A text for high school students which covers nutrition, cooking, food purchasing, meal serving and planning, and even has a section on camp cookery and on ordering foods in dining cars and restaurants.

Science News Letter, March 8, 1941

CHILD STUDY

AN ADOPTED CHILD LOOKS AT ADOPTION—Carol S. Prentice—*Appleton-Century*, 222 p., \$2. At this time when so many children are temporarily or permanently separated from their parents, this book written sympathetically by one who has been both adopted child and adopted mother, should be very useful.

Science News Letter, March 8, 1941

CRIMINOLOGY

FINGERPRINTING, A MANUAL OF IDENTIFICATION—Charles Edward Chapel—*Coward McCann, Inc.*, 299 p., illus., \$3.75. A book intended for the layman on the details of making and classifying fingerprints. The author is a retired officer of the U. S. Marine Corps.

Science News Letter, March 8, 1941

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HISTORY

NARRATIVES OF THE CORONADO EXPEDITION, 1540-1542—George P. Hammond and Agapito Rey—*Univ. of New Mexico Press*, 413 p., \$3.50. The second of 11 volumes of the Coronado Historical Series authorized by the Coronado Cuarto Centennial Commission, to encourage preservation of our historical literature. Prefaced by a helpful resume of Coronado's career, the 30 original documents in this volume provide a vivid picture of an expedition of that time. Especially interesting are the trial records and other documents relating to the "investigation" of Coronado on charges of mismanagement, presenting new material found in archives of Spain.

Science News Letter, March 8, 1941

BIOLOGY

BIOLOGY — Howard M. Parshley — *Wiley*, 232 p., illus., \$2.25. A compact, well-written text for college survey courses, notable alike for judgment in selection of what to leave out and for brief adequacy in treatment of what is included.

Science News Letter, March 8, 1941

HORTICULTURE

GROWING TREE AND SMALL FRUITS (2d ed.)—H. B. Knapp and E. C. Auchter—*Wiley*, 615 p., \$2.75. New edition of a highly practical text for courses in vocational agriculture.

Science News Letter, March 8, 1941

BOTANY

STUDIES OF THE VEGETATION OF MISSOURI—I, Natural Plant Associations and Succession in the Ozarks of Missouri—Julian A. Steyermark—*Field Museum of Natural History*, 124 p., illus., \$1.

Science News Letter, March 8, 1941

ENTOMOLOGY

A REVISION OF THE NEARCTIC HEMEROBIIDAE, BEROETHIDAE, SISYRIDAE, POLYSTOECHOTIDAE AND DILARIDAE (NEUROPTERA)—F. M. Carpenter—*American Academy of Arts and Sciences*, 87 p., illus., \$2.25.

Science News Letter, March 8, 1941

TECHNOLOGY

ELEMENTS OF THE PETROLEUM INDUSTRY—E. DeGolyer, ed.—*American Institute of Mining and Metallurgical Engineers*, 519 p., \$5. Each of the twenty-one chapters is written by an expert in his field. The names of the authors of

this book, and the auspices under which it is issued fully attest its authority. It is a complete and elementary compendium of the industry in all its phases. Not only are the engineering points covered, but also there are chapters devoted to land tenure and leasing, the economics of the petroleum industry and an introduction to the literature of oil and gas.

Science News Letter, March 8, 1941

ASTRONOMY

PRIMER OF CELESTIAL NAVIGATION — John Favill—*Cornell Maritime Press*, 223 p., illus., \$2.50. This is a practical manual, intended, as the author explains, for "those who enjoy understanding why things are done and what they mean, and who like to have all important steps included."

Science News Letter, March 8, 1941

TRAVEL

LAND OF THE EYE—Hassoldt Davis—*Holt*, 415 p., illus., \$3. Adventures of the motion-picture expedition, led by Armand Denis and Leila Roosevelt Denis, told by a member of the party who writes with dramatic insight and a zest for vigorous story telling. The route is from Rangoon over the Burma road into China, and back, then to the main goal, Nepal, little-known Indian kingdom near the Tibet border.

Science News Letter, March 8, 1941

GENERAL SCIENCE

CATHOLICISM AND THE PROGRESS OF SCIENCE—William M. Agar—*Macmillan*, 109 p., \$1. A brief exposition by one of the lay leaders of present-day Catholic popular apologetics. It should do much toward clearing up long-standing misconceptions, some of which are accepted even by Catholics themselves.

Science News Letter, March 8, 1941

ECONOMICS

I BELIEVE IN AMERICA: AN AMERICAN MANIFESTO—Ray W. Sherman—*Oskar Piest*, 180 p., \$1.50. The son of a country blacksmith and a "self-made man" expresses his creed and the belief that "America is going to see prosperity such as no country in the world has ever known."

Science News Letter, March 8, 1941

ZOOLOGY

NOTES ON MEXICAN SNAKES OF THE GENUS GEOPHIS—Hobart M. Smith—*Smithsonian Inst.*, 6 p., 10c.

Science News Letter, March 8, 1941

PSYCHOLOGY—BIOGRAPHY

FROM THIRTY YEARS WITH FREUD—Theodor Reik; Trans. by Richard Winston—*Farrar & Rinehart*, 241 p., \$2.50. This biography of a great scientist is something more than that. It seems to turn the keen light of Freud's mind onto the tremendous world problems that have survived him. In increasing understanding of the character of the famous psychoanalyst, the book aids in producing an understanding of the world in which he lived and died.

Science News Letter, March 8, 1941

CONSERVATION

MY COUNTRY 'TIS OF THEE, The Use and Abuse of Natural Resources—Lucy Sprague Mitchell, Eleanor Bowman and Mary Phelps—*Macmillan*, 335 p., illus., \$3.50. Strikingly phrased text, supported by vividly executed diagrams and equally striking photographic illustrations, give this book a decided bite. It isn't a mere dispassionate presentation of conservation facts; the authors have an evangel, and they don't hesitate to invoke a certain amount of emotion in driving it home. Should be required reading for Pippas of all ages and social positions.

Science News Letter, March 8, 1941

ARCHAEOLOGY

YALE CLASSICAL STUDIES, Vol. 7—Austin M. Harmon, Alfred R. Bellinger, Henry T. Rowell and Robert O. Fink, eds.—*Yale Univ.*, 317 p., \$3. Analyzes an important fragmentary papyrus found at Dura in archives of the Roman garrison. The document, an official list of military festivals, was used within the period 224-235 A.D. and is the only surviving official religious document of Rome in calendar form within three centuries.

Science News Letter, March 8, 1941

EDUCATION

MATERIAL FACILITIES NEEDED IN THE TRAINING OF INTERMEDIATE GRADE TEACHERS IN SCIENCE—Harry Allen Cunningham—*Teachers College, Columbia Univ.*, 162 p., illus., \$2.

Science News Letter, March 8, 1941

PHYSICS

PHYSICAL SCIENCE IN ART AND INDUSTRY—E. G. Richardson—*Macmillan*, 293 p., \$3.50. A useful book from England which gives physicists and others some idea of what physics has been doing in recent years for industry and the fine arts.

Science News Letter, March 8, 1941