

• First Glances at New Books

Additional Reviews

On Page 352

EXPLORATION

ON SAFARI—Theodore J. Waldeck—*Viking Press*, 208 p., illus. by Kurt Wiese, \$2.50. Explorers, it would seem, are born, not made—and then have to make themselves. At any rate, the author of this fascinating narrative had the fever for exploration in his blood, and not even the fever which laid him low at his first touch of Africa could drive it out. He survived, persevered through all kinds of blunders and luck, and in the end learned, and became able to tell of the veldt—as he does here, most fascinatingly.

Science News Letter, November 30, 1940

ETHNOLOGY

INDIANS OF YESTERDAY — Marion E. Gridley—*Donohue*, 63 p., illus., \$1. An experienced teller of Indian tales, Miss Gridley here tells very simply the sort of facts that young people would enjoy reading about Indian life. The book has full page color pictures and smaller brown drawings on every page, by the well known Blackfoot Indian artist, Lone Wolf.

Science News Letter, November 30, 1940

PHOTOGRAPHY

DARKROOM HANDBOOK AND FORMULARY—Morris Germain—118 p., PHOTO TRICKS AND EFFECTS—Jacob Deschin—126 p., INDOOR PHOTOGRAPHY—Hillary G. Bailey—94 p., MINIATURE CAMERA TECHNIQUE—Fenwick G. Small—118 p., MANUAL OF ENLARGING—Stephen White—94 p., illus., 50c. each, *Ziff-Davis*. (Little Technical Library) Handy sized books packed with information for the camera enthusiast. They are well illustrated, printed and bound.

Science News Letter, November 30, 1940

GENERAL SCIENCE

THE LAYMAN SCIENTIST IN PHILADELPHIA—W. Stephen Thomas, Ed.—*Comm. on Education and Participation in Science, American Philosophical Society, 104 S. 5th St., Philadelphia, Pa.*, 44 p., illus., 10 c., 15 c. by mail. Obtainable direct only; not through Science Service. (See page 344)

Science News Letter, November 30, 1940

GENERAL SCIENCE

SCIENCE IN THE SERVICE OF MAN—*University of California Press*, 107 p., illus., \$1.00. Within the covers of this booklet is contained a permanent record of the exhibits of the University of Cali-

fornia at the Golden Gate International Exposition. Through the whole range of sciences, photographs and explanatory text tell just what was shown and the significance of each exhibit. This guide book will perpetuate the influence of this extensive exhibit even though the crowds no longer file through it.

Science News Letter, November 30, 1940

GENERAL SCIENCE

SCIENCE FOR THE ELEMENTARY-SCHOOL TEACHER—Gerald S. Craig—*Ginn*, 551 p., illus., \$3. A book for teachers to study in order that they may teach elementary science more effectively. First, Prof. Craig of Horace Mann School and Teachers College, Columbia University, discusses the teacher, the child and the place of science in education. He then provides content in three parts: the earth and the universe, the life of the earth and the energy of the universe. Finally there are listed suggestions as to what and when should be taught in the lower primary, primary and intermediate grades.

Science News Letter, November 30, 1940

ZOOLOGY

THE INDO-CHINESE FOREST OX OR KOUFREY — Harold Jefferson Coolidge, Jr.—*Museum of Comparative Zoology, Harvard College, Cambridge, Mass.*, 531 p., 11 pl., \$6. See *SNL*, Nov. 9.

Science News Letter, November 30, 1940

AERONAUTICS

AEROPLANE INSTRUMENTS (PART I)—E. Molloy and E. W. Knott, eds.—*Chemical Pub. Co.*, 132 p., illus., \$2. This book deals with the operation and maintenance of the Sperry gyropilot, Sperry, and Smith aircraft instruments. It is stated that a later volume will deal with further examples of instruments and automatic control equipment.

LANDING LEGS, WHEELS, AND BRAKES—E. Molloy and E. W. Knott, eds.—*Chemical Pub. Co.*, 132 p., illus., \$2. "Happy landings" of airplanes depend largely on the quality of the landing gear. This book discusses technical features of several makes, with particular reference to British practice.

CARBURETORS (Part I)—E. Molloy and E. W. Knott, eds.—*Chemical Pub. Co.*, 124 p., illus., \$2. A technical discussion of the features of airplane carburetors, prepared in England, as indicated by the spelling of the title word.

Science News Letter, November 30, 1940

CHEMISTRY

CATALYSIS, Inorganic and Organic—Sophia Berkman, Jacque C. Morrell and Gustav Egloff—*Reinhold*, 1130 p., illus., \$18. Catalysts, the chemical "parsons" which, without being altered themselves, make other chemical changes possible, play an extremely important rôle in chemical industry. This authoritative work covers all phases, particularly their use in the petroleum industry, to which a chapter is devoted.

Science News Letter, November 30, 1940

ELECTRICAL ENGINEERING—CHEMISTRY

THINGS A BOY CAN DO WITH ELECTRO-CHEMISTRY—Alfred Morgan—*Appleton-Century*, 198 p., illus., \$2. Electrochemistry is important in many industrial processes: preparation of aluminum, for example. This book will introduce an experimentally inclined boy to its wonders, with things he can do involving simple apparatus and no danger.

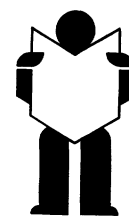
Science News Letter, November 30, 1940

MATHEMATICS—ENGINEERING

TWO-ARC CURVES (2d ed.)—*Deeble Printing Co., Salina, Kansas*, illus., 35c. Instructions for drawing close approximations of the ellipse with circular arcs.

Science News Letter, November 30, 1940

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• First Glances at New Books

Additional Reviews
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BOTANY

SPICE ON THE WIND — Irmengarde Eberle—*Holiday House*, 56 p., illus. by Richard Jones, \$2. Cloves from Zanzibar, nutmeg from Amboina, spices from many lands told about briefly and simply, in a way that will interest readers of all ages. In addition to the colored sketches, there is an illustration in a new "dimension": the pages of the book are steeped in a spicy scent.

Science News Letter, November 30, 1940

BIBLIOGRAPHY

AERONAUTICS TRAINING FOR NATIONAL DEFENSE — Paul Howard — *Amer. Library Assn.*, 8 p., 25c.

ENGINEERING DEFENSE TRAINING, A Booklet—Harrison W. Craver and Harrison A. Von Urf—*Amer. Library Assn.*, 13 p., 25c.

Science News Letter, November 30, 1940

ENGINEERING

RURAL AMERICA LIGHTS UP—Harry Slattery—*National Home Library Foundation* 142 p., 25c. The story of how electricity is being taken to the farms of America, written by the Administrator of the Rural Electrification Administration and head of the rural program that now serves over a million American farms. In the past five years more American farms have been electrified than during the previous 50 years.

Science News Letter, November 30, 1940

AERONAUTICS

YOUNG AMERICA'S AVIATION ANNUAL 1940-1941 — Frederick P. Graham and Reginald M. Cleveland, eds.—*McBride*, 262 p., illus., \$2. Despite the title, it is probable that America of all ages will enjoy this profusely illustrated book telling all about aviation.

Science News Letter, November 30, 1940

CHEMISTRY

FUNDAMENTAL CHEMISTRY—Horace G. Deming—*Wiley*, 764 p., illus., \$3.50. This college text, the author states, endeavors "to present chemistry as a manner of thinking, rather than as a collection of facts, however systematized, or as an array of unsupported assumptions, to be taken on faith. . . . It introduces no important theory until the student has begun to feel the need for it."

Science News Letter, November 30, 1940

METALLURGY—HISTORY

THE SONS OF VULCAN—Thomas Hibben—*Lippincott*, 259 p., illus., \$2. This interesting account of the history of

metal working starts with prehistoric man and his tools, and shows the development of modern metallurgy.

Science News Letter, November 30, 1940

INVENTION—CHEMISTRY

HANDBOOK FOR CHEMICAL PATENTS—Edward Thomas—*Chemical Pub. Co.*, 270 p., \$4. This is intended both as a handbook for the general reader interested in the subject, and also as a supplement to the author's more complete book, published in 1937, which it brings up to date with the citation of later cases.

Science News Letter, November 30, 1940

ETHNOLOGY—FICTION

HAWK OVER WHIRLPOOLS — Ruth M. Underhill—*Augustin*, 255 p., \$2.50. A readable story of Indian characters fighting against intrusion of the white man's strange ways, in the Southwest. The author, well known for her writings on Indians of this region, says that the tale represents the now historic era of 25 or more years ago, before today's program of Indian self-government and humanized education.

Science News Letter, November 30, 1940

ETHNOLOGY—FICTION

YAMINO-KWITI, Boy Runner of Siba—Donna Preble—*Caxton*, 236 p., illus. by author, \$2.50. An historical novel, based on Indian life in California at the time of arrival of white men. It is intended, apparently, for readers of the teen ages. The hero is an Indian boy with ambition to become message bearer for his tribe, and his adventures abound in ethnological details.

Science News Letter, November 30, 1940

PHYSICS

APPLIED X-RAYS (3rd ed.)—George L. Clark—*McGraw-Hill*, 674 p., illus., \$6. Though medical uses of X-rays are the only ones with which most people come into contact, they have many other scientific and industrial applications, covered in this book. New developments, made since the previous edition in 1932, are described.

Science News Letter, November 30, 1940

CHEMISTRY—BIOGRAPHY

THE LIFE OF IRA REMSEN—Frederick H. Getman—*Journal of Chemical Education*, 172 p., De Luxe Edition, \$3.50; Regular Edition, \$2.50. An interesting and sympathetic account of the career of one of the greatest figures in American chemistry.

Science News Letter, November 30, 1940

NUTRITION

VITAMINS, What They Are and How They Can Benefit You—Henry Borsook—*Viking Press*, 193 p., \$2. This "Cook's tour of the vitamins," by the professor of biochemistry at California Institute of Technology, is simple, practical and easy to read. The sample menus for home or restaurant ordering of food on different-sized budgets are particularly useful, as are the tables which give vitamin values in household measures of foods, such as one-fourth of a head of cauliflower or one-half a cup of cooked peas.

Science News Letter, November 30, 1940

BIOGRAPHY—HISTORY

FROM PANAMA TO VERDUN—Philippe Bunau-Varilla—*Dorrance*, 277 p., illus., \$2.50. The autobiography of the man who started the Panama Canal for the French, and who induced the United States to finish it. He also planned the cross-Channel tunnel, solved the Dreyfus case, lost a leg at Verdun and died at the age of 82 in Paris just before the Nazis entered this year.

Science News Letter, November 30, 1940

GENERAL SCIENCE

EAST IS EAST AND WEST IS WEST—Carlos Emmons Cummings—*Buffalo Museum of Science*, 382 p., illus., \$3.50. An analysis of the exhibition methods of the two great world's fairs of 1939, conducted under Rockefeller Foundation auspices by the Buffalo Museum's director and a group of museum specialists from other museums. The report takes the form of a beautifully-printed book, which is pleasingly readable and which should have great influence on exhibits of the future.

Science News Letter, November 30, 1940

PHILOSOPHY—GENERAL SCIENCE

A PHILOSOPHY OF SCIENCE—W. H. Werkmeister—*Harper*, 551 p., \$4. A history of science and scientific method from a philosophical viewpoint done into a college text by the University of Nebraska's associate professor of philosophy. The contention throughout the book is that all knowledge is grounded in first person experience.

Science News Letter, November 30, 1940

TECHNOLOGY

SCIENCE IN INDUSTRY—A. M. Low—*Oxford Univ. Press*, 160 p., illus., \$1.75. A British professor discusses the industrial revolutions caused by science.

Science News Letter, November 30, 1940