

• First Glances at New Books

Botany

PLANTS: WHAT THEY ARE AND WHAT THEY DO—A. C. Seward—*Macmillan*, 141 p., \$1.50. Herein Prof. Seward again demonstrates the ability of the well-rounded English man of science to present a scientific subject in brief compass so that the layman can understand it, and what is even more important, so that the layman will be interested in it and eager to read about it. This little book is a worthy continuation of a tradition that runs back to Stephen Hales.

Science News Letter, May 28, 1932

Physics

THE PHYSICAL SIGNIFICANCE OF THE QUANTUM THEORY—F. A. Lindemann—*Oxford*, 148 p., \$2.50. Physicists and those attempting to follow the new physics will welcome this book, the intention of which is "epistemological rather than critical. No shadow of doubt is cast upon the validity of the standard equations and formulae. Its purpose is rather to clear up the mystery surrounding their origin and to expose the true physical significance of the Quantum Theory. It represents an endeavor to prove the thesis maintained since 1924, that the quantum difficulties are the expression of the fact that space and time are as mental concepts incomplete, that they are inadequate indefinables in which to describe reality."

Science News Letter, May 28, 1932

Ichthyology

JAPANESE AQUATIC PLANTS AND ANIMALS—Fisheries Society of Japan—*Stanford University Press*. 2 vols., \$50. Volume I, on fishes, is now out; volume II, plants, is announced for the near future. The illustrations are such as one might expect from the best of Japanese scientific artists; the English text descriptions are concise and exact.

Science News Letter, May 28, 1932

Archaeology—Ethnology

SELECTED MANUSCRIPTS OF GENERAL JOHN S. CLARK RELATING TO THE ABORIGINAL HISTORY OF THE SUSQUEHANNA—Ed. by Louise Welles Murray—*Soc. for Pennsylvania Archaeology*, 150 p., cloth \$2.50, paper \$2. The first volume in a series on aboriginal Pennsylvania to be issued under auspices of the Society for Pennsylvania Archaeology. General Clark, who died in 1912, made a prolonged study of the Indians of Pennsylvania, acquiring rare manu-

scripts and maps, having other originals copied, gathering information from Indians and fellow antiquarians. From the mass of his correspondence and manuscripts, which have remained unpublished, Miss Murray selected some on three subjects: The Andastes, Indian names, and The Carantouan sites of Champlain's voyages.

Science News Letter, May 28, 1932

Archaeology

ANATOLIA THROUGH THE AGES—Erich F. Schmidt—*Univ. of Chicago Press*, 165 p., \$2. A remarkable sequence of cultures has been traced by Dr. Schmidt at the Alishar mound, in his excavations for the Oriental Institute. Beginning with Stone Age people of unknown antiquity, there follow mysterious alien newcomers, then Hittite culture, Phrygian, Medo-Persian, Greek, Roman, and Byzantine, and lately Turkish Moslems. Dr. Schmidt's "purely scientific report" will appear later. In this more informal account, he tells the story of the expedition and reconstructs a 55-century history of an "awe-inspiring human ant hill."

Science News Letter, May 28, 1932

Chemistry

COLLOID CHEMISTRY—Ed. by Jerome Alexander—*Chem. Cat. Co.*, 734 p., \$11.50. As the fourth and concluding volume of an ambitious and successful treatment of colloid chemistry in two hundred and two papers prepared by chemists from practically all the leading countries in the world, this book is an event in literature upon colloidal chemistry. This volume four is the second series of papers on technical applications which cover a large group of chemical processes that enter into the making of things that we use every day.

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General Science

The following concludes the booklists of the American Association for the Advancement of Science, compiled by Joseph L. Wheeler, chairman of the Association's booklist committee. Previous installments of this list have appeared in the SCIENCE NEWS LETTER for March 12, April 2, April 23 and May 14. The lists as printed here have been changed slightly from their original form to include important new publications. The full

set of twenty-seven annotated lists can be obtained by sending thirty cents in stamps to the American Association for the Advancement of Science, Smithsonian Institution, Washington, D. C.

Millikan, R. A. and Gale, H. G. **Elements of physics**; being a revision of the author's "Practical physics," done in collaboration with W. R. Pyle 509p. 1927 Ginn \$1.64.

Millikan, R. A. and others **A first course in physics for colleges** 676p. 4th ed. 1928 Ginn \$4.00.

Kimball, A. L. **College physics** 692p. 3d. ed. rev. 1923 Holt \$3.75.

Brownell, Herbert **Physical science** 313p. 1931 McGraw-Hill \$2.50.

Wind and the Weather

Brooks, C. F. **Why the weather?** 310p. 1924 Harcourt \$2.00.

Luckiesh, Matthew **The book of the sky** 236p. 1922 Dutton \$3.50.

Talman, C. F. **The realm of the air** 318p. 1931 Bobbs-Merrill \$4.00.

Humphreys, W. J. **Rain making and other vagaries** 157p. 1926 Williams & Wilkins \$2.50.

Humphreys, W. J. **Fogs and clouds** 104p. 1926 Williams & Wilkins \$4.00.

Laughton, L. C. C. and Heddon V. **Great storms** 259p. 1931 Payson \$1.25.

Boy Scouts of America **Weather** 73p. 1929 Merit Badge Service Boy Scouts of America \$.20.

Huntington, Ellsworth **Civilization and climate** 453p. 3d ed. 1924 Yale Univ. Press \$5.00.

Ward, R. DeC. **Climate, considered especially in relation to man** 380p. 2nd ed. rev. 1918 Putnam \$2.50.

Ward, R. DeC. **The climates of the United States** 518p. 1925 Ginn \$4.00.

Gregg, W. R. **Aeronautical meteorology** 405p. 2d. ed. rev. & enl. 1930 Ronald \$4.50.

Brunt, David **Meteorology** 112p. 1928 Oxford Univ. Press \$1.00.

Geddes, A. E. M. **Meteorology** 390p. 1921 Van Nostrand \$6.00.

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Science News Letter will secure for its subscribers any book or magazine published in the United States. Send check or money order to cover regular retail price (\$5 if price is unknown, change to be remitted) and we will pay postage in the U. S. Address: Library, Science Service, 21st and Constitution Avenue, Washington, D. C.

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Standardization

STANDARDS YEARBOOK, 1932—Bureau of Standards—*Govt. Print. Off.*, 394 p., \$1. The Standards Yearbook now in its sixth issue is taking its place along with the annual Smithsonian Report and other serial publications which perform a useful and important service in summarizing the state of present knowledge. A vast amount of important information is packed in this Yearbook. In addition to reports from international standardizing agencies, national standardizing laboratories in industrial bodies of a similar nature and the American federal and other governmental agencies, including the Bureau of Standards, there is an interesting symposium on standardization in communication.

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Horticulture

THE BACKYARD GARDEN—E. I. Farington—*Stratford*, 191 p., \$1.50. With a nation turning (however reluctantly) toward the virtue of thrift, the backyard vegetable garden may be expected to come into its own again. Those who have forgotten how to take care of one, or who never learned, will find in this little book many useful suggestions.

Science News Letter, May 28, 1932

Horticulture

ANNUALS IN THE GARDEN—H. Stuart Ortloff—*Macmillan*, 88 p., \$1.25. A worthy addition to the large Macmillan family of garden books, giving diagrams of simple garden-bed layouts and telling what to put in them and how to take care of them.

Science News Letter, May 28, 1932

Biography

THE BOYHOOD OF AN INVENTOR—C. Francis Jenkins—*Author*, 273 p. The inventor of television is a person with a delightful sense of humor and an insatiable curiosity about life. In his laboratory in Washington Mr. Jenkins is working to make television a practical thing for home and theatrical entertainment, but the diversity of his other interests constantly surprises his friends.

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Archaeology

AN ARCHEOLOGICAL SURVEY OF THE TWENTY-NINE PALMS REGION—Elizabeth W. Crozier Campbell—*Southwest Museum*, 93 p., 48 pl., 75c. A concise account of outstanding features of the archaeology in one region of Southern

California's desert area. Mr. and Mrs. Campbell have located more than 300 sites about the desert springs and water-holes, and have recovered a notable collection of pottery, basketry, textiles, ornaments, and objects of bone, wood, and stone.

Science News Letter, May 28, 1932

Geography

GUIDE TO PATHS IN THE BLUE RIDGE—*Potomac Appalachian Trail Club* (Washington), 305 p., \$2.50. An editorial committee under the direction of Harold Allen has produced a classic among guidebooks. It contains a detailed description of 506 miles of the Appalachian trail along the crest of the Blue Ridge in Virginia and Pennsylvania, abundant maps, articles on the geology, wild flowers and trees of the region by eminent authorities, and information for use in case of accident, illness and snake-bites. Small size, thin, tough paper and a flexible binding that fastens the volume closed make it into a handbook convenient to carry on the trail.

Science News Letter, May 28, 1932

Archaeology

ABORIGINAL INDIAN POTTERY OF THE DOMINICAN REPUBLIC—Herbert W. Krieger—*Govt. Print. Off.*, 165 p., 56 pl. 75c. Pottery objects made by natives of Santo Domingo were distinctive from wares made on the neighboring islands of Cuba and Jamaica, and even to some extent different from Porto Rico pottery. Besides describing type objects, and analyzing form and design of Santo Domingan pottery, the author gives considerable background information regarding archaeology of the West Indies.

Science News Letter, May 28, 1932

General

THE NEW INTERNATIONAL YEAR BOOK, 1931—*Funk & Wagnalls*, 856 p., \$6.75 The thirtieth issue of the New International Year Book adds to the shelf of these valuable annual summaries of world progress in all fields.

Science News Letter, May 28, 1932

Ethnology

THE ISNEG—Morice Vanoverbergh—*Catholic Anthropological Conference, Washington, D. C.*, 80 p., \$1.25. An account of a Filipino tribe hitherto not adequately reported.

Science News Letter, May 28, 1932

Biography

LUSTY SCRIPPS—Gilson Gardner—*Vanguard*, 274 p., \$3.50. Although not the official biography of E. W. Scripps, the founder of the Scripps-Howard Newspapers and Science Service, this book gives a vivid picture of his striking personality and mind. Men of science will be peculiarly interested in the life of E. W. Scripps because of his confidence in the scientific method and his establishment of Science Service, the Scripps Institution of Oceanography, and the Scripps Foundation for Research in Population Problems at Miami University. In the newspaper world he is one of the great historical figures.

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Chemistry

INTRODUCTORY GENERAL CHEMISTRY—Stuart R. Brinkley—*Macmillan*, 565 p., \$3. A new college text written by the associate professor of chemistry at Yale University.

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Chemistry

PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON BITUMINOUS COAL—*Carnegie Institute of Technology*, Vol. I, 965 p., Vol. II, 1034 p., \$15. Here are presented reports of scientists and engineers from eleven countries on the newest developments in the uses of coal, with discussions from the Conference in Pittsburgh last fall. Economics of the industry is also considered at length.

Science News Letter, May 28, 1932

Engineering

PRACTICAL ICE MAKING—A. J. Aulthrieth and E. A. Brandt—*Nickerson & Collins*, 202 p., \$3.50. The reader of wide interests will find worthwhile this description of ice plants and their operation, which was written especially for those who work with machinery. It is profusely supplied with photographs drawings, charts and tables.

Science News Letter, May 28, 1932

Standardization

NATIONAL DIRECTORY OF COMMODITY SPECIFICATIONS, 1932—Bureau of Standards—*Govt. Print. Off.*, 548 p., \$1.75. This should be rated as the bible of purchasing agents and those who must set specifications for everything from cattle to sign boards. This directory prepared by the Bureau of Standards is a splendid example of the real service offered by federal government agencies.

Science News Letter, May 28, 1932