

•First Glances at New Books

Physics

COSMIC RAYS THUS FAR—Harvey Brace Lemon—*Norton*, 128 p., \$2. Prof. Lemon traces the historical development of cosmic radiation from its beginnings to March, 1936. Written in his characteristically pleasing style, the book has added merit in the clever cartoon-like illustrations. The author pulls no punches in describing how the personalities of the various scientists in the field led to considerable controversy as to experimental techniques and interpretations. The book, designed for the intelligent layman rather than the scientist, is naturally without a detailed bibliography.

Science News Letter, April 25, 1936

Chemistry

AMERICAN CHAMBER OF HORRORS—Ruth deForest Lamb—*Farrar & Rinehart*, 418 p., \$2.50. (See p. 271.)

Science News Letter, April 25, 1936

Ichthyology

DEEP SEAS AND LONELY SHORES—W. Lavallin Puxley—*Dutton*, 217 p., \$2.50. An entertainingly written account of wonders of the abysses of the oceans and of the remote lands beyond them. Eels, sea-serpents, whales, nightmare fishes of the great deeps, butterfly fishes of the alluring tropical shallows, pass in ever-changing procession.

Science News Letter, April 25, 1936

Engineering

ELEMENTS OF DIESEL ENGINEERING, WITH QUESTIONS AND ANSWERS—Orville Adams—*Henley*, 478 p., \$4. Basing his thesis on the assumption that thousands of men and young men will soon turn to the field of Diesel engine maintenance, the author presents the basic facts about this field of engineering. Every piece of Diesel literature, it is claimed, was examined in the course of

writing the book, but unfortunately these literature references are not given, so that the more advanced student has to accept the volume as a secondary source of information.

Science News Letter, April 25, 1936

Biography

J. ARTHUR HARRIS, BOTANIST AND BIOMETRICIAN—Ed. by C. Otto Rosen-dahl, Ross Aiken Gortner, and George O. Burr—*Univ. of Minnesota*, 209 p., \$2.50. The life story of a noted botanist told by three of his former associates at the University of Minnesota. Whether in the field on researches in his chosen subject of the sap of plants as influenced by ecological conditions, or as administrator of a leading research laboratory and later of the department of botany at the University of Minnesota, Dr. Harris left his mark so firmly imprinted that time will not be easily able to erase it.

Science News Letter, April 25, 1936

Botany

RAMIE—G. L. Carter and Paul M. Horton—*Louisiana State Univ.*, 100 p., \$1.50. A brief but well-packed treatise on a fiber plant that is regarded as having great promise in the American field. An especially useful feature, for those interested in more detailed exploration of the subject, is a bibliography of 257 titles.

Science News Letter, April 25, 1936

Chemistry

PHYSICAL ASPECTS OF ORGANIC CHEMISTRY—William A. Waters—*Van Nostrand*, 501 p., \$9.50. Elaborate and advanced textbook treating organic chemistry from the point of view of the physical approach. An extensive index and vast bibliography add to the book's merits as a reference volume.

Science News Letter, April 25, 1936

Astronomy

THROUGH MY TELESCOPE—W. T. Hay—*Dutton*, 128 p., \$1.50. Mr. Hay, fellow of the Royal Astronomical Society, tells in simple language some of the fascinating facts about astronomy. An amateur astronomer by avocation, Mr. Hay's real profession is that of a vaudeville actor. His characterization of a mirth-provoking schoolmaster is well-known in England. But do not let that comment scare off the prospective reader for Mr. Hay is the man who discovered, in 1933, the remarkable white spot on the planet Saturn which professional astronomers had not yet observed.

Science News Letter, April 25, 1936

Botany

HANDBOOK OF NORTHWEST FLOWERING PLANTS—Helen M. Gilkey—*Metropolitan*, 407 p., \$2.50. Teaching and field botanists in the Pacific Northwest will welcome this new flora, which puts into convenient, "Gray's-manual" form the well keyed-out descriptions of plants needed for effectual work in systematic botany. Line drawings, obviously made from either living material or from well-preserved herbarium specimens, help with many of the more difficult forms.

Science News Letter, April 25, 1936

Standardization

REPORT OF THE TWENTY-FIFTH NATIONAL CONFERENCE ON WEIGHTS AND MEASURES—*Govt. Print. Off.*, 145 p., 20c. National Bureau of Standards, Misc. Pub. M156.

Science News Letter, April 25, 1936

Political Science

NEUTRALITY, ITS HISTORY, ECONOMICS AND LAW. IV: TODAY AND TOMORROW—Philip C. Jessup—*Columbia Univ. Press*, 237 p., \$2.75. The fourth and concluding volume of a series that goes into the vexed question of neutrality and makes a strong and scholarly effort to find out what is this much-desired but elusive haven of peace-minded nations in a war-bent world, and how it may be attained and kept despite the storm.

Science News Letter, April 25, 1936

Morphology

MORPHOLOGY OF THE COLEOPTEROUS FAMILY STAPHYLINIDAE—Richard E. Blackwelder—*Smithsonian Institution*, 102 p., 30 figures, 40c. Correction of price, incorrectly quoted in *SCIENCE NEWS LETTER* of March 28, 1936.

Science News Letter, April 25, 1936

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April 28, 2:15 p.m., E.S.T.

FARM ANIMALS—IMPROVED MODELS—Dr. John R. Mohler, Chief of the Bureau of Animal Industry, U. S. Department of Agriculture.

May 5, 2:15 p.m., E.S.T.

TESTING FABRICS WE BUY—Warren E. Emley, of the National Bureau of Standards.

In the Science Service series of radio discussions led by Watson Davis, Director, over the Columbia Broadcasting System.

Meteorology

STUDIES OF RELATIONS OF RAINFALL AND RUN-OFF IN THE UNITED STATES—W. G. Hoyt and others—*Govt. Print. Off.*, 301 p., 25c. Geological Sur. Water-Supply Paper 772. A very timely reference work, which will have wide use in soil conservation, forestry, flood protection and prevention engineering, and many allied applications. Besides thorough general discussion there are detailed accounts of typical special cases in all parts of the country.

Science News Letter, April 25, 1936

Ornithology

A KEY TO SPECIES OF AMERICAN OWLS—Leon Kelso—publ. by author, 101 p., 7 pl., \$2. Special students of this interesting and important group of birds, and indeed ornithologists generally, find this a complete analytical treatment of the group, the first covering its field since Ridgeway's work, published in 1914 and now out of print.

Science News Letter, April 25, 1936

Metalcraft

METALCRAFT FOR AMATEURS—Peter Manzoni—*Beacon Press*, 136 p., \$1. Well-written shop notes for those who wish to do metal working as a handicraft.

Science News Letter, April 25, 1936

Forestry

DECAY FOLLOWING FIRE IN YOUNG MISSISSIPPI DELTA HARDWOODS—George W. Hepting—*Govt. Print. Off.*, 32 p., 5c. A brief but pertinent discussion of a major problem in the management of an important type of timber in the South.

Science News Letter, April 25, 1936

Electricity

ELECTRICAL MEASUREMENTS IN PRINCIPLE AND PRACTICE—H. C. Turner and E. H. W. Banner—*Instruments Pub. Co.*, 354 p., \$4.50. A British text designed for use by engineers who are concerned primarily with the applications of electrical measuring apparatus.

Much of the mathematical treatment necessary in books for students and research workers is thus eliminated. The principles of operations as well as the restrictions and limitations of the equipment are given.

Science News Letter, April 25, 1936

Electricity

ELECTRICITY IN THE HOME AND ON THE FARM—Forrest B. Wright—*Wiley*, 320 p., \$2.50. In one-syllable words that anyone can understand Professor Wright gives detailed instruction on how to be your own electrician at home and on the farm. The index runs from alarm systems to making Western Union splices. Any husband, after reading this book, can amaze his wife with his ability as an electrical handy-man.

Science News Letter, April 25, 1936

Mathematics

COMMERCIAL ALGEBRA, COLLEGE COURSE—Bolling H. Crenshaw, Thomas Marshall Simpson, Zareh M. Pirenian—*Prentice-Hall*, 174 p.; tables, 19 p.; answers, vii p., \$2. A textbook which is of a more utilitarian nature than the traditional college course in the subject. Designed for persons who are going into business, the technical expressions of algebra are held to a minimum.

Science News Letter, April 25, 1936

Ichthyology

FLORIDA FISHES—Harold L. Madison—*Cleveland Museum of Natural History*, 31 p., 25c. A handy little booklet-manual in an envelope, margin-punched to fit the Lefax type of notebook; therefore very convenient to take along on a fishing trip—if your good luck takes you to Florida waters. Short descriptions and clean-cut little illustrations will help you identify the strange, and often beautiful, fish that you catch.

Science News Letter, April 25, 1936

Entomology

A MONOGRAPHIC REVISION OF THE GENUS CEUTHOPHILUS—T. H. Hubbell—*Univ. of Florida*, 551 p., 38 pl., \$3.75. A study of a peculiar group of cricket-like insects, often held to be rare but probably merely very elusive, that will be of high interest to systematic entomologists. Prof. Hubbell has made this a model of what monographic treatment of a taxonomic subject should be.

Science News Letter, April 25, 1936

Physics

ATOMIC PHYSICS—Max Born—*Steckert*, 352 p., \$4.75. An English translation of Prof. Born's widely read German text of 1933 which has been brought up to date and contains a new chapter on the recently discovered new atomic particles and a discussion of the properties of the nucleus.

Science News Letter, April 25, 1936

Chemistry-Engineering

AMERICAN PETROLEUM INDUSTRY, A SURVEY OF THE PRESENT POSITION OF THE PETROLEUM INDUSTRY AND ITS OUTLOOK TOWARD THE FUTURE—*American Petroleum Institute*, 229 p., Paper, 50c., Cloth, \$1. Facts and figures on the petroleum industry which brings the last figures (vintage 1925) up to date. A handy reference volume about one of America's greatest industries.

Science News Letter, April 25, 1936

Geology

REPORTS ON THE GEOLOGY OF CAMERON AND VERMILION PARISHES—*Louisiana Geological Survey*, 242 p., \$1.00.

Science News Letter, April 25, 1936

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Science News Letter, April 25, 1936

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