

° First Glances at New Books

Additional Reviews
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Geology

GEOMORPHOLOGY, An Introduction to the Study of Landscapes—A. K. Lobeck—*McGraw-Hill*, 731 p., \$4.50. Geomorphology might be defined as the study of the forces of geology at work on the land. That is the approach of this book, which works out the story in great detail, illustrating main points with beautifully clear diagrams of developmental stages and superb photographs of landscape types. It can be read with profit not only by students of geology but by the layman who wants to know how his own home landscape "got that way."

Science News Letter, October 14, 1939

Medicine

PNEUMONIA, WITH SPECIAL REFERENCE TO PNEUMOCOCCUS LOBAR PNEUMONIA—Roderick Heffron—*Commonwealth Fund*, 1086 p., \$4.50. See p. 254.

Science News Letter, October 14, 1939

Physics

SEMI-CONDUCTORS AND METALS—A. H. Wilson—*Cambridge (Macmillan)*, 120 p., \$2. The modern theory of metals and their properties which have changed greatly in the last ten years. Positive "holes," energy states of the atoms, and Brillouin zones are some of the new concepts considered in this little volume which is kept to small size because the swift research advance does not, at the present time, warrant a full-sized book that might try to "freeze" material still in a state of flux.

Science News Letter, October 14, 1939

Education

VOCATIONS FOR GIRLS—Mary Rebecca Lingenfelter and Harry Dexter Kitson—*Harcourt, Brace*, 358 p., \$2.50. A book written so that the girls themselves might want to read it. The vocations considered include those for "Ladies First," "Free for All," and "For Men Only—Unless."

Science News Letter, October 14, 1939

Hygiene

HEALTH EDUCATION BY ISOTYPE—Otto Neurath and H. E. Kleinschmidt—*American Public Health Assoc.*, 31 p., 25c.

Science News Letter, October 14, 1939

Biology

FUNDAMENTALS OF BIOLOGY, Animal and Plant—William C. Beaver—*Mosby*, 896 p., \$4.50. A great, big, thick book, crammed with all facts of general biology that any teacher could imaginably want his class to get acquainted with—certainly a lot more ground than the

average freshman class can get over in a year. This should permit the teacher considerable latitude in selection, and give the more interested student plenty of unrequired reading if he wants it.

Science News Letter, October 14, 1939

General Science

SCIENCE TODAY AND TOMORROW—Waldemar Kaempffert—*Viking*, 275 p., \$2.50. The science editor of the *New York Times* covers the wide range of science from exploding stars to democracy's relationship to the machine. Says Mr. Kaempffert in his preface: "The task of a vulgarizer of science is no longer confined to mere elementary exposition of principles and procedures. He must indicate, as best he can, what effects new discoveries and inventions are likely to have on individual and community life."

Science News Letter, October 14, 1939

Geography

LABORATORY EXERCISES IN PHYSIOGRAPHY—Gustav L. Fletcher—*Heath*, 162 p., 68 c.

Science News Letter, October 14, 1939

Zoology

THE MEXICAN AND CENTRAL AMERICAN LIZARDS OF THE GENUS *SCELOPORUS*—Hobart M. Smith—*Field Museum of Natural History*, 397 p., 31 pl. \$3.50.

Science News Letter, October 14, 1939

History

YALE CLASSICAL STUDIES, Vol. VI—Austin M. Harmon, Alfred R. Bellinger and Henry T. Rowell, eds.—*Yale Univ. Press*, 167 p., \$2. Critical and analytic discussion of half a dozen classical topics, including characters in Athenian drama and sources of the treatise *De Mundo* which was once attributed to Aristotle.

Science News Letter, October 14, 1939

Ethnology

NOTES ON HILLERS' PHOTOGRAPHS OF THE PAIUTE AND UTE INDIANS TAKEN ON THE POWELL EXPEDITION OF 1873—Julian H. Steward—*Smithsonian Institution*, 23 p., 31 pl., 60c. (Smithsonian Miscellaneous Collections, Vol. 98, No. 18)

Science News Letter, October 14, 1939

Sociology—Economics

MODERN MAN IN THE MAKING—Otto Neurath—*Knopf*, 159 p., \$2.95. Dr. Neurath gives an intelligent explanation of the modern world and its problems, using pictorial diagrams or isotypes as part of the text, rather than as a supplement.

Science News Letter, October 14, 1939

Botany

THE EARTH'S GREEN MANTLE—Sydney Mangham—*Macmillan*, 322 p., \$3.50. An easily moving, brightly written, popular book about plants, by an English professor of botany, complete and well-arranged enough to serve as a textbook, but also so interestingly presented that it can be read "for fun."

Science News Letter, October 14, 1939

Chemistry

INDEX TO THE LITERATURE OF FOOD INVESTIGATION; Vol. X, No. 4—Agnes Elisabeth Glennie, Gwen Davies and Catherine Robson, compilers—*British Library of Information*, 107 p., \$1.35. This volume covers literature received between Sept. 1 and Dec. 31, 1938.

Science News Letter, October 14, 1939

Physics

INTRODUCTION TO ATOMIC PHYSICS—Henry Semat—*Farrar & Rinehart*, 360 p., \$3.50. A college textbook designed for science students who have had a general college physics course and, in addition, a course in calculus. Numerous problems at the end of each chapter make the text a valuable one, and the use of the material over the past ten years in mimeographed form has given ample proof of the value and arrangement of the material.

Science News Letter, October 14, 1939

Chemistry

CHEMICAL PIONEERS—Williams Haynes—*Van Nostrand*, 288 p., \$2.50. Here are the biographies of the great names in American industrial chemistry. Out of their small beginnings have come the great chemical age which the nation is now entering.

Science News Letter, October 14, 1939

Agriculture—Engineering

RURAL WATER SUPPLY AND SANITATION—Forrest B. Wright—*Wiley*, 288 p., \$2.50. Clearly written and illustrated with diagrams and photographs, this textbook will be equally useful in the classroom and in the rural home or farm.

Science News Letter, October 14, 1939

Chemistry

THE CHEMISTRY OF ORGANIC COMPOUNDS (Rev. ed.)—James Bryant Conant; Rev. with the assistance of Max Tishler—*Macmillan*, 658 p., \$4. The popular and well-known text of Harvard's president has been revised and extensively reworked to bring it up to present-day usefulness.

Science News Letter, October 14, 1939

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Population

PEOPLE, The Quantity and Quality of Population—Henry Pratt Fairchild—*Holt*, 315 p., \$3. "If the birth rate of the United States should continue to decline as it has during most of the present century by about the year 1975 there would be no babies born at all" says the author, New York University professor of sociology. But don't jump at the conclusion that obstetricians will be completely out of date. Prof. Fairchild finds that the decline in our birthrate has stopped: "A closer examination of the figures shows that for the past five years our natality has held its own. What does this mean? Have the great forces that have caused the diminution in the past played themselves out? Is innate American vigor reasserting itself? May we even anticipate an upturn in the birth curve? Or is this just a temporary reversal, a mere fortuitous dent in an implacable trend? Nobody knows the answer, but everybody ought to know the tremendous implications involved in these fluctuations of population."

Science News Letter, October 14, 1939

Zoology

THE AMPHIBIA AND REPTILIA OF OREGON—Kenneth Gordon—*Oregon State College*, 82 p., 50c. A state fauna, well worked out and excellently illustrated, that should prove highly useful in the region for which it is intended.

Science News Letter, October 14, 1939

Biology

LIVING THINGS, How to Know Them—H. E. Jaques—*Published by Author*, 709 North Main Street, Mt. Pleasant, Iowa—164 p., spiral binding, \$1; cloth binding, \$1.80. Keys to the more important orders of plants and animals, illustrated with clean-cut little sketches. This small book has value far beyond its unpretentious size, for it is evidently based on a thorough-going practical knowledge of laboratory and field requirements.

Science News Letter, October 14, 1939

Economics

REVIEW OF WORLD TRADE, 1938—League of Nations—*Columbia Univ. Press*, 85 p., 60c.

Science News Letter, October 14, 1939

Botany

WILD FLOWERS OF THE NORTHERN STATES AND CANADA—Arthur Craig Quick—*Donohue*, 518 p., \$4. A popular book describing and figuring about 600

of the commoner wild flowers of the northeastern United States and adjacent parts of Canada. Descriptions are arranged phenologically, from early spring to late autumn. Suggestions for cultivation of some of the species in wildflower gardens are also given.

Science News Letter, October 14, 1939

Geology

GEOLOGY AND ALLIED SCIENCES, A Thesaurus and a Coordination of English and German Specific and General Terms. Part I, German-English—Walter Huebner—*Veritas Press*, 405 p., \$7.50. Something geologists and others interested in the earth sciences have long been waiting for: a German-English dictionary of the technical as well as the common terms used in their science and not found in either general or previously existing special dictionaries.

Science News Letter, October 14, 1939

Zoology

QUANTITATIVE ZOOLOGY—George Gaylord Simpson and Anne Roe—*McGraw-Hill*, 414 p., \$4. The old definition of a biologist as "a person of scientific aspiration but insufficient mathematical preparation" has had to go by the board long ago, in such fields as genetics and physiology, and will presently have to go in ecology, too. This book should prove highly useful in training biologists of the future, who will need to use mathematics as a daily tool of their trade.

Science News Letter, October 14, 1939

Photography

FINDING NEW SUBJECTS FOR YOUR CAMERA—Jacob Deschin—*Whittlesey*, 239 p., \$2.50. A book of interest to the man who has bought a camera and is looking around for something good to turn the lens on.

Science News Letter, October 14, 1939

Bacteriology

BRUCELLOSIS IN MAN AND ANIMALS—I. Forest Huddleson—*Commonwealth Fund*, 339 p., \$3.50. A technical book for physicians, veterinarians and public health workers.

Science News Letter, October 14, 1939

Anatomy

AN INTRODUCTION TO HUMAN ANATOMY (2d. ed.)—Clyde Marshall—*Saunders*, 388 p., \$2.50. A text which endeavors to give the student a picture of anatomical structures as living, functioning structures.

Science News Letter, October 14, 1939

General Science

MODERN SCIENCE, A Study of Physical Science in the World Today—Hyman Levy—*Knopf*, 736 p., \$5. Science in the frame of our social, physical and mental life, interpreted by a leading British scientist, professor of mathematics of the Imperial College of Science and Technology, London, who sees science as a method as well as a tool. The flow of the book is: first the energy of man expressing itself partially in science, then the machine and its effect on the human mind, followed by the struggle for mental freedom and for clear expression in mathematical form, next man's adjustment to a new outlook on time and space, brought to a focus in their application to one modern problem, illumination, and finally a diagnosis, science in travail.

Science News Letter, October 14, 1939

Biography

DEMOCRACY'S NORRIS—Alfred Lief—*Stackpole*, 546 p., \$3.50. Biography of a great liberal, Senator George W. Norris of Nebraska.

Science News Letter, October 14, 1939

Chemistry

INORGANIC QUANTITATIVE ANALYSIS (new ed.)—Harold A. Fales and Frederic Kenny—*Appleton-Century*, 713 p., \$4.

Science News Letter, October 14, 1939

Chemistry

DISCOVERY OF THE ELEMENTS (4th ed.)—Mary Elvira Weeks—*Journal of Chemical Education*, 470 p., \$3.

Science News Letter, October 14, 1939

Chemistry

FUNDAMENTALS OF CHEMISTRY AND APPLICATIONS—Charlotte A. Francis and Edna C. Morse—*Macmillan*, 542 p., \$3.

Science News Letter, October 14, 1939

Technology

IRON BREW, A Century of American Ore and Steel—Stewart H. Holbrook—*Macmillan*, 352 p., \$2.50. The steel industry and its history, a book that makes splendid background reading on this industrial field.

Science News Letter, October 14, 1939

General Science

MODERN MIRACLE MEN—J. D. Ratcliff—*Dodd, Mead*, 311 p., \$3. Recent developments in medicine are told with dramatic emphasis in the first 14 chapters while advances in agriculture are told in eight chapters. You may have read some of these in recent general magazines.

Science News Letter, October 14, 1939