

• First Glances at New Books

Additional Reviews
On Page 404

Entomology

GENERAL ENTOMOLOGY—Robert A. Wardle—*Blakiston's*, 311 p., \$2.25. Prof. Wardle, unlike many specialists, has mercy on the hopeful student who is interested in his Professor's specialty, but after all does not intend to make it his own. The result is a compact, digestible textbook, which will fit into a varied program of biological instruction without making a lopsided bulge. The ruthless pruning of non-essentials only leaves the main facts standing out the more clearly and easily grasped—and by the same token, the more likely to be remembered.

Science News Letter, June 20, 1936

Physics

CHART OF ELECTROMAGNETIC SPECTRUM—*McGraw-Hill*, 25c. The new and revised edition of the wavelength spectrum chart has been issued by the magazine *Electronics*. A limited number of these valuable teaching aids are available. They come uncreased in a mailing tube. In full color, they have been prepared from new plates.

Science News Letter, June 20, 1936

Paleontology

SECOND CONTRIBUTION TO NOMENCLATURE OF CAMBRIAN TRILOBITES—Charles Elmer Resser—*Smithsonian Institution*, 29 p., 10c.

Science News Letter, June 20, 1936

Biology

COMPARAISON ENTRA LA RYTHMICITÉ DES COURANTS D'ACTION CELLULAIRES CHEZ LES VÉGÉTAUX & CHEZ LES ANIMAUX—Daniel Auger—*Hermann & Cie., Paris*, 98 p., 20fr.

Science News Letter, June 20, 1936

Physiology

EXPOSÉS DE PHYSIOLOGIE: VI, La Secreton de l'Adrenaline—B. Minz, 47 p., 12fr.; VII, Les Parentés Chimiques des Êtres Vivants—Paule Lelu, 47 p., 10fr.; VIII, A la Recherche du Temps Vécu—R. S. Lacape, 55 p., 12fr.—*Hermann & Cie., Paris*.

Science News Letter, June 20, 1936

Forestry

FOREST TREES AND FOREST REGIONS OF THE UNITED STATES—Wilbur R. Mattoon—*Govt. Print. Off.*, 55 p., 15c. This bulletin contains an astonishing amount of dendrological, ecological and forestry information in small space.

Especially useful is the tabulated list of trees, giving common and botanical names, range, and critical identification characters.

Science News Letter, June 20, 1936

General Science

HUTCHINSON'S TECHNICAL AND SCIENTIFIC ENCYCLOPAEDIA—Ed. by C. F. Tweney and I. P. Shirshov—*Macmillan*, 4 vol., 2468 p., \$25. A veritable "Britannica" of science and engineering, with brief but informative articles on everything from A to Zymurgy. All the sciences and technologies receive treatment, but the articles on electrical, mechanical and chemical topics are especially complete, and practically all the numerous illustrations and diagrams are in these sections. The copious use of structural formulae in the chemical articles is especially to be recommended.

Science News Letter, June 20, 1936

Zoology

PROTOZOAIRES—M. Prenant—*Hermann & Cie., Paris*. Infusoires Ciliés, 77 p., 15fr.; Flagellés, 56 p., 12fr.

Science News Letter, June 20, 1936

Biology

LETHAL EFFECT OF SHORT WAVE LENGTHS OF THE ULTRAVIOLET ON THE ALGA CHLORELLA VULGARIS—Florence E. Meier—*Smithsonian Institution*, 19 p., 2 pl., 15c.

Science News Letter, June 20, 1936

Entomology

THE GOLD-BANDED SKIPPER (RHABDOIDES CELLUS)—Austin H. Clark—*Smithsonian Institution*, 50 p., 8 pl., 30c. An account of a rather rare and very interesting butterfly.

Science News Letter, June 20, 1936

Botany

PROCEEDINGS, Volume I—Sixth International Botanical Congress, Amsterdam, Sept. 2-7, 1935—*E. J. Brill, Leiden*. The papers presented at the recent Sixth International Botanical Congress necessarily represent the very latest news in botany, in cross-section. Botanists who were so fortunate as to be present at the Congress will of course want to ruminate at greater leisure the mass of material that had to be ingested in haste during that crowded week; the rest of us will desire at least a chance to read what we were not privileged to hear.

Science News Letter, June 20, 1936

Biology

VÉRIFICATIONS EXPÉRIMENTALES DE LA THÉORIE MATHÉMATIQUE DE LA LUTTE POUR LA VIE—G. F. Gause—*Hermann & Cie., Paris*, 61 p., 18fr.

Science News Letter, June 20, 1936

Biology

DÉTERMINISME ET RÉALISATION DANS LE DEVENIR DU SEXE—Véra Dantchkoff—*Hermann & Cie., Paris*, 74 p., 18fr.

Science News Letter, June 20, 1936

Geology

ÉVOLUTION DE L'ATMOSPHÈRE: Circulation Organique, Époques Glaciaires—V. A. Kostitzin—*Hermann & Cie., Paris*, 45 p., 12fr.

Science News Letter, June 20, 1936

Endocrinology

LES PARATHYROÏDES—Harald Okkels—*Hermann & Cie., Paris*, 26 p., 10fr. The structure, function and diseases of the parathyroid glands are set forth in this monograph by a professor in the Faculty of Medicine of Copenhagen.

Science News Letter, June 20, 1936

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Additional Reviews
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Biography

JAMES WATT, CRAFTSMAN AND ENGINEER—H. W. Dickinson—*Cambridge (Macmillan)*, 206 p., \$4. The year 1936 is the two hundredth anniversary of the birth of James Watt who, through his harnessing of steam for power, brought about a peaceful revolution in the progress of the world which has had more importance than any war ever fought. The above book is (without being stressed as such) a bicentennial biography from the engineering viewpoint. Through the complete cooperation of English sources, who own the original material concerning Watt and his work, Mr. Dickinson has been able to fashion a splendid book.

Science News Letter, June 20, 1936

Biology

ELEMENTS OF GENERAL BIOLOGY—Henry R. Barrows—*Farrar and Rinehart*, 435 p., \$2.60. A textbook consciously planned to fit a one-semester course, without sacrificing any of the essentials. The material is presented rapidly and concisely; the illustrations, mostly line cuts, are clean, well-chosen, and pertinent.

Science News Letter, June 20, 1936

Biology

MOLLUSCAN INTERMEDIATE HOSTS OF THE ASIATIC BLOOD FLUKE, SCHISTOSOMA JAPONICUM, AND SPECIES CONFUSED WITH THEM—Paul Bartsch—*Smithsonian Institution*, 59 p., 8 pl., 40c. (See SNL, May 30, p. 346.)

Science News Letter, June 20, 1936

Biography

THOMAS WALTER, BOTANIST—William R. Maxon—*Smithsonian Institution*, 6 p., 5c. A brief biographical note.

Science News Letter, June 20, 1936

Geology

NEW SPECIES OF AMERICAN EDRIO-ASTEROIDEA—R. S. Bassler—*Smithsonian Institution*, 33 p., 7 pl., 30c. A study of a number of fossil echinoderms.

Science News Letter, June 20, 1936

Rocket Flight

ROCKETS THROUGH SPACE—P. E. Cleator—*Simon and Schuster*, 227 p., \$2.50. Popularly-written books on rockets and rocket flight continue apace. Mr. Cleator's volume is written from the British point of view. It is a much better book for being less enthusiastic than some comparable works recently written. American research on rockets

is adequately covered in so far as the American Rocket Society program is concerned, but Prof. Robert H. Goddard's latest Roswell research is but briefly mentioned. The past secrecy surrounding the latter work, however, is an understandable excuse for the lack of a fuller discussion.

Science News Letter, June 20, 1936

Biology

LES MOUVEMENTS MORPHOGÉNÉTIQUES DANS LE DÉVELOPPEMENT DES VERTÉBRÉS—Pierre Hatt—*Hermann & Cie., Paris*, 57 p., 12fr.

Science News Letter, June 20, 1936

Geography

ELEMENTS OF GEOGRAPHY—Vernor C. Finch and Glenn T. Trewartha—*McGraw-Hill*, 782 p., \$4. Of the making of good geography books there should be no end for a long time to come, for there has been a grievous shortage in this field of scientific literature. The present book first lays out the field, then proceeds to discuss in order the natural elements of landscape (weather, climate, landforms, earth resources), cultural elements of landscape, and the geographic realms. Illustrations, while adequate, could be improved to the advantage of the rest of the book.

Science News Letter, June 20, 1936

Zoology

COLLEGE ZOOLOGY—R. W. Hegner—*Macmillan*, 742 p., \$3.50. Fourth edition of one of the most successful and widely known zoology texts.

Science News Letter, June 20, 1936

Botany

MORPHOLOGY OF VASCULAR PLANTS, LOWER GROUPS—Arthur J. Eames—*McGraw-Hill*, 433 p., \$4. A carefully worked out, excellently illustrated treatise on the morphology of the ferns and their allies, both living and fossil. The summary tables will be found especially useful, and the occasional phylogenetic diagrams (which carefully shun dogmatic commitments) should be helpful in furthering discussion of a number of much-vexed questions.

Science News Letter, June 20, 1936

Meteorology

THE DEPENDENCE OF TERRESTRIAL TEMPERATURES ON THE VARIATIONS OF THE SUN'S RADIATION—C. G. Abbot—*Smithsonian Institution*, 15 p., 10c. Dr. Abbot summarizes in condensed form the results of his studies of correlations between solar-radiation variations and changes in terrestrial weather. There are many plotted curves.

Science News Letter, June 20, 1936

Biology

BIOLOGICAL EFFECTS OF RADIATION—Ed. by Benjamin M. Duggar—*McGraw-Hill*, 2 vol., 1342 p., \$12 per set. This work justifies the use of that somewhat over-used word, monumental. The work of a notable group of researchers in many phases of radiophysiology, it goes thoroughly into all aspects of the question: visible, ultra-violet, infra-red, X-rays, mitogenetic rays, photoperiodism, effects of various kinds of radiation on all kinds of organisms in all stages of developments. Literature search has been exhaustive, and citation lists are remarkably complete. The work was done as a project of the Division of Biology and Agriculture, National Research Council.

Science News Letter, June 20, 1936

Dendrology

THE REDWOODS OF COAST AND SIERRA—James Clifford Shirley—*Univ. of California Press*, 74 p., 22 pl., cloth, \$1.25, paper, 50c. A condensed but comprehensive popular account of Big Tree and Coast Redwood, by a ranger-naturalist of the National Park Service. Botany, paleobotany, history, uses—it is really astonishing how much readable information has been packed into so few pages.

Science News Letter, June 20, 1936

Biology

COLLEGE BIOLOGY—Walter H. Wellhouse and George O. Hendrickson—*F. S. Crofts*, 381 p., \$3. A very promising-looking textbook of general biology, which however gives animal organisms a great deal more extended treatment than is accorded to plants.

Science News Letter, June 20, 1936

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