

• First Glances at New Books

Additional Reviews
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GEOPHYSICS

STRENGTH AND STRUCTURE OF THE EARTH—Reginald Aldworth Daly—*Prentice-Hall*, 434 p., charts, \$3.50. Here is the earth as a whole, looked at as an engineer might look at it, with definite data for strength and mass of materials, formulae for calculating performance under given circumstances, descriptions of measuring instruments and methods, etc. Better understanding of the principles and facts set forth here should help geology, especially structural geology, to make a closer approach to being an exact science.

Science News Letter, January 18, 1941

POLITICAL SCIENCE

POLITICAL PROPAGANDA—F. C. Bartlett—*Cambridge (Macmillan)*, 158 p., \$1.25. See page 39.

Science News Letter, January 18, 1941

AERONAUTICS

OUR AIRLINERS—Irving Crump and Norman Maul—*Dodd, Mead*, 249 p., illus., \$2. This book for older boys contains detailed descriptions of commercial airlines, the ships they fly, their operation and the training of their personnel, all fully illustrated.

Science News Letter, January 18, 1941

ENGINEERING

WORKING STRESSES—Joseph Marin—*Rutgers Univ. Press.*, 41 p., \$1. Since the selection of the correct working stress values for the design of a structure is an important consideration in obtaining a safe and economical construction, this subject is a most important one to engineers. Data contained in this little book will help in their determination.

Science News Letter, January 18, 1941

CHEMISTRY

PRINCIPLES OF INORGANIC AND ANALYTICAL CHEMISTRY—Ernest J. Baldwin—*Van Nostrand*, 506 p., illus., \$3.25. Divided into two parts, "Properties of Atoms and Molecules" and "Theory of Reactions," this book, it is stated, presents "in unified form the material needed for classroom study during the entire second year of chemistry."

Science News Letter, January 18, 1941

PHYSICS—CHEMISTRY

PHYSICAL CHEMISTRY, A Brief Course, With Laboratory Experiments—Louis J. Bircher—*Prentice-Hall*, 429 p., illus., \$3. This text is intended for a brief college course in the subject, to give the student

a background for advanced work in chemistry, or in those other sciences in which it plays an important part.

Science News Letter, January 18, 1941

HORTICULTURE

BETTER LAWNS FOR HOMES AND PARKS—Howard B. Sprague—*Whittlesey House*, 205 p., illus., \$2. Lawns may be planted in autumn or spring, but it is in winter that the planning and preparation necessary for their full success must be done. This book, in a series of highly practical chapters beginning with the foundation of a lawn, the soil, and proceeding to care of the established lawn and the combating of its enemies, will enable the home owner to make the most of opportunities, and the least of handicaps, presented by his home grounds.

Science News Letter, January 18, 1941

BOTANY

THE STORY OF FOOD PLANTS—B. E. Dahlgren—*Field Museum of Natural History*, 32 p., illus., 25c. A brief but instructive pamphlet, built around the notable series of murals recently completed for the Field Museum by Julius Moessel, reproductions of which form the illustrations.

Science News Letter, January 18, 1941

ANTHROPOLOGY

WHY MEN BEHAVE LIKE APES AND VICE VERSA—Earnest Albert Hooton—*Princeton Univ. Press*, 234 p., illus., \$3. See page 45.

Science News Letter, January 18, 1941

GEOPHYSICS

TRANSACTIONS OF THE AMERICAN GEOPHYSICAL UNION, 1940—*National Research Council*, Pt. 1 (Stanford University regional meetings, hydrology), 144 p., \$1.25; Pt. 2 (Washington annual meetings, all sections), 643 p., \$3.75; Pt. 3 (Richmond symposium and Seattle regional meetings, hydrology), 280 p., \$1.75; Pt. 4 (Columbus symposia: Applications of mathematics in the earth-sciences and Hydrologic problems in the Ohio and Michigan basins), 100 p., \$1.

Science News Letter, January 18, 1941

ETHNOLOGY

HOPÍ INDIANS OF ARIZONA—Alexander MacGregor Stephen—*Southwest Museum, Los Angeles, Calif.*, 47 p., illus., 30 c. (Southwest Museum Leaflets, Number 14.)

Science News Letter, January 18, 1941

MEDICINE

L. EMMETT HOLT, Pioneer of a Children's Century—R. L. Duffus and L. Emmett Holt, Jr.—*Appleton-Century*, 295 p., illus., \$3. The generation of children raised on Dr. Holt's famous baby book, *The Care and Feeding of Children*, many of whom by now have reared children of their own, will be interested in this biography of the man who served as their medical godfather. So also will the large army of physicians and others professionally devoted to the advancement of child health in which Dr. Holt pioneered.

Science News Letter, January 18, 1941

CHEMISTRY

LABORATORY OUTLINES AND NOTEBOOK FOR ORGANIC CHEMISTRY (Rev. ed.)—Cecil E. Boord, Wallace R. Brode and Roy G. Bossert—*Wiley*, 241 p., \$1.75. Since this manual represents a development over a period of twenty years, with more than ten revisions in form and content, it is not surprising that the authors have produced an excellent and practical laboratory guide.

Science News Letter, January 18, 1941

CHEMISTRY

GENERAL COLLEGE CHEMISTRY (Rev. ed.)—Joseph A. Babor and Alexander Lehrman—*Crowell*, 659 p., illus., \$3.75. Because of the advances in chemical science since the first edition of this book appeared in 1929, the authors have had to make nearly a complete rewriting for this, the second edition. As before, it covers extensively current views of atomic structure. The prerequisite of a high school course in chemistry is suggested for its use.

Science News Letter, January 18, 1941

CHEMISTRY

EXPERIMENTAL GENERAL CHEMISTRY—J. W. Neckers, T. W. Abbott and K. A. Van Lente—*Crowell*, 282 p., illus., \$1.75. Though intended mainly to accompany Babor & Lehrman's "General College Chemistry," this laboratory manual can also be used with other texts. A table in the appendix shows the correlation with them.

Science News Letter, January 18, 1941

AGRICULTURE—ECONOMICS

FARMERS IN A CHANGING WORLD—U. S. Dept. of Agriculture—*Govt. Print. Off.*, 1215 p., illus., \$1.50. See page 46.

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BIOGRAPHY—EDUCATION—MEDICINE

I REMEMBER, The Autobiography of Abraham Flexner—*Simon and Schuster*, 414 p., \$3.75. Both those who know well and those who have only the vaguest idea of the role Abraham Flexner has played in bringing education, both general and medical, to its present high level in the United States will find both interesting and stimulating this, his own account of his lifework and his philosophy.

Science News Letter, January 18, 1941

PHOTOGRAPHY

OUTDOOR PHOTOGRAPHY — Samuel Grierson, 99 p.; FLASH PHOTOGRAPHY—Rus Arnold, 110 p.; PHOTOGRAPHING ACTION—Victor De Palma, 110 p.; PHOTOGRAPHIC LENSES AND SHUTTERS—Richard W. St. Clair, 158 p.; SELLING YOUR PICTURES—Kurt S. Safranski, 94 p. illus., 50c. each—*Ziff-Davis*. (Little Technical Library) More of these attractive well-illustrated little handbooks. See also *SNL*, Nov. 30, 1940.

Science News Letter, January 18, 1941

BIOGRAPHY

JOHN ALFRED BRASHEAR, Scientist and Humanitarian, 1840-1920 — Harriet A. Gaul and Ruby Eiseman — *Univ. of Penna. Press*, 220 p., \$2.25. Even before his death twenty years ago "Uncle John" Brashear, the mill worker who became a famous maker of optical instruments, was a legend in Pittsburgh. This interesting account of his romantic life is the third volume in the University of Pennsylvania Press' series of "Pennsylvania Lives."

Science News Letter, January 18, 1941

GEOLOGY

PETROLOGY AND GENESIS OF THE THIRD BRADFORD SAND—Paul D. Krynine—*Pennsylvania State College*, 134 p., illus., 50c.

Science News Letter, January 18, 1941

BOTANY

A KEY TO WOODY PLANTS, Based Upon the Flora of Itasca Park, Minnesota—Murray F. Buell and Robert L. Cain—*Burgess*, mimeographed, 30 p., \$1.

Science News Letter, January 18, 1941

HISTORY

PORTUGUESE VOYAGES TO AMERICA IN THE FIFTEENTH CENTURY—Samuel Eliot Morison—*Harvard Univ. Press*, 151 p., illus., \$2. Analyzing claims that Portu-

guese reached North and South America prior to Columbus' voyages, Prof. Morison concludes on the basis of existing evidence, that Columbus was the first European (after the early Northmen) to reach the New World.

Science News Letter, January 18, 1941

MATHEMATICS

PRACTICAL MATHEMATICS (Rev. ed.)—Glenn M. Hobbs, James McKinney; rev. by J. Ralph Dalzell—*Amer. Technical Soc.*, 597 p., \$2.50. A useful summary of arithmetic, mensuration, logarithms, etc., either for the beginner, or one who wishes to refresh his memory. No higher mathematics is included.

Science News Letter, January 18, 1941

AGRICULTURE

MODERN AGRICULTURE (Rev. ed.) — Waldo Ernest Grimes and Edwin Lee Holton—*Ginn*, 646 p., illus., \$1.72. A new edition of a successful text for beginning students in agriculture.

Science News Letter, January 18, 1941

MATHEMATICS

VAN TUYL'S MATHEMATICS OF BUSINESS—George H. Van Tuyl—*American Book Co.*, 502 p., illus., \$1.52. This high school text includes such up-to-date matters as Federal Social Security.

Science News Letter, January 18, 1941

PHYSICS

EXTERIOR BALLISTICS, A Reprint of Chapter X, Exterior Ballistics, and Chapter XII, Bombing from Airplanes, from "ELEMENTS OF ORDNANCE"—Prepared under the Direction of Lt. Col. Thomas J. Hayes—*Wiley*, 98 p., \$1. The essentials of exterior ballistics, for projectiles and airplane bombs, expressed in formulae which students with no more knowledge of mathematics than college first-year courses afford can readily master. Should be particularly useful in R.O.T.C. classes nowadays.

Science News Letter, January 18, 1941

ORNITHOLOGY

BIRDS OF THE GREY WIND—Edward A. Armstrong—*Oxford Univ. Press*, 228 p., illus., \$3.50. Birds of the wild cliffs of northern Ireland, described by a man who loves them and the seas and shores which they frequent. Glimpses of the country, scraps of history and tradition, bits of poetry quoted here and there, blend with the story of the birds themselves to make truly enjoyable reading.

Science News Letter, January 18, 1941

MEDICINE

STRANGE MALADY, The Story of Allergy — Warren T. Vaughan — *Doubleday, Doran*, 268 p., illus., \$3. Allergy has become almost a household word these days, but few people who glibly use the word understand very much about it. This book tells what it is, what can be done for it, what is yet unknown about it, and gives its entire history from the earliest records of cases to the latest medical discoveries. Dr. Vaughan has written about this very complicated subject a book as easy to read and understand as a primer, and as interesting as a novel.

Science News Letter, January 18, 1941

BIOLOGY

ORGANISERS AND GENES—C. H. Waddington—*Cambridge (Macmillan)*, 160 p., illus., \$3. The concept of genes carried the potentiality of being one of the most useful general ideas ever introduced into biology. But it was left more or less up in the air. Here were the chromosomes, carrying their loads of genes, each able to produce some profound effect in the growing body. But how were these chemical miracle-workers to make their effects felt, in the great world outside the nucleus? Means of implementation seemed lacking. Comes now another class of vital compounds, the organizers, whose presence in growing organisms seems fairly well demonstrated. How they bridge the hitherto yawning gap, and how they function, is well set forth in this compact book by a leading British biologist.

Science News Letter, January 18, 1941

GENERAL SCIENCE

A STUDY-BOOK FOR EVERYDAY PROBLEMS IN SCIENCE—Wilbur L. Beauchamp, John C. Mayfield and Joe Young West—*Scott, Foresman*, 346 p., 84c. A workbook to accompany the author's textbook "Everyday Problems In Science".

Science News Letter, January 18, 1941

PHYSICS—ASTRONOMY

TIME AND ITS RECKONING—R. Barnard Way and Noël D. Green—*Chemical Pub. Co.*, 137 p., illus., \$2. What time is, according to the philosophers, what it is to the astronomers and how it is measured by man-made instruments are some of the items covered in this English publication. The presentation is clear and understandable.

Science News Letter, January 18, 1941