•First Glances at New Books

Additional Reviews On Page 64

Anthropology

PLEISTOCENE MAN IN MINNESOTA, A FOSSIL HOMO SAPIENS—Albert Ernest Jenks—*Univ. of Minnesota,* 197 p., illus., $7.50. That America was inhabited by man in the late glacial period, about 20,000 years ago, is the high historic significance which Prof. Jenks assigns to the skeleton of Minnesota Man. In support of this verdict, he presents in this report an impressive background of evidence, including the circumstances of discovery, geology of the region, and a detailed study of skeletal features.

Science News Letter, January 23, 1937

Physics

THE THEORY OF THE PROPERTIES OF METALS AND ALLOYS—N. F. Mott and H. Jones—*Oxford,* 326 p., $8. An advanced and highly technical book which gives as complete an account as is now possible of the electron theory of metals and of its successes in accounting for the observed properties of metals and alloys.

Science News Letter, January 23, 1937

Mathematics

LES CONDITIONS DE MONOGÉNÉITE —D. Menchoff—*Hermann & Cie, Paris,* 53 p., 15fr.

Science News Letter, January 23, 1937

Mathematics

PROPRIÉTÉS GENERALES DE L'ÉQUATION D'EULER ET DE GAUSS—Édouard Goursat—*Hermann & Cie, Paris,* 93 p., 20fr.

Science News Letter, January 23, 1937

Geometry

ANALYTIC GEOMETRY—Palmer H. Graham, F. Wallace John and Hollis R. Cooley—*Prentice-Hall, Inc.,* 294 p., $2.35. A text used at Washington Square College of New York University. No special claims for novelty are offered by the authors, except that the material is presented so that it may be grasped by the average student and at the same time give the instructor a highly flexible text to fit into his own course.

Science News Letter, January 23, 1937

Animal Husbandry

THE MORTGAGE LIFTER — *Hog Breeder, Inc.,* 255 p., $2.25. Nobody with a Midwestern background will need to be told what kind of a mechanism a mortgage lifter is, or how efficiently it functioned in days when America still had an export market. In these days of closer margins between production costs and selling prices, when no hog raiser can afford to have any four-hoofed prodigal sons (or daughters) in the feed lot, this compact practical book, taking up hog breeding and hog raising from all angles, will be found valuable.

Science News Letter, January 23, 1937

Aeronautics

AIRCRAFT AND THE AIR—Compiled and edited by Eric Sargent—*Appleton-Century,* 682 p., illus., $3. Line drawings and specifications of aircraft, past and present, of all nations are compactly provided by this interesting book for ready reference.

Science News Letter, January 23, 1937

Mathematics

FIRST YEAR COLLEGE MATHEMATICS —M. A. Hill and J. Burton Linker—*Holt,* 436 p., 155 p. of tables, $2.60. A University of North Carolina text which breaks down into three broad topics: (1) Algebra and trigonometry, (2) Analytic geometry and (3) Mathematics of finance. There are 155 pages of mathematical tables to help in the solution of problems and as a reference tool.

Science News Letter, January 23, 1937

Electricity

LESSONS AND PROBLEMS IN ELECTRICITY—Newell C. Page—*Macmillan,* 356 p., $2.75. A Massachusetts Institute of Technology text which assumes freshman calculus and mechanics. The electron theory is stressed throughout the book which, as might be suspected, is designed for engineering students. Many teachers will value it for its collection of problems although the title is misleading in that much more is offered than the usual "problem" book.

Science News Letter, January 23, 1937

Chemistry

CHEMICAL BUYER'S GUIDE-BOOK, 1936—Staff of "Chemical Industries"—*Haynes Publications,* 919 p., $1.

Science News Letter, January 23, 1937

Physics

ELECTRON TUBES IN INDUSTRY (2nd ed.)—Keith Henney — *McGraw-Hill,* 539 p., $5. With the help of 28 experts in the field, Mr. Henney, who is editor of the well-known magazine *Electronics,* here brings his popular reference book up to date.

Science News Letter, January 23, 1937

History of Mathematics

THE STUDY OF THE HISTORY OF MATHEMATICS — George Sarton—*Harvard Univ. Press,* 113 p., $1.50. The inaugural address by Prof. Sarton in his course on the subject of this book, at Harvard University, February 4, 1936.

Science News Letter, January 23, 1937

Geology

AN ISLAND IS BORN—Norah D. Stearns—*Honolulu Star Bulletin, distributed through Harold T. Stearns, Spreckelsville, Maui, T.H.,* 115 p., illus., $1. A popular geologic account of the evolution of the Island of Oahu, on which Honolulu is situated. The vivid impressionistic style should prove attractive to trans-Pacific travelers. Lots of illustrations and diagrams fill the book.

Science News Letter, January 23, 1937

Aeronautics—Meteorology

THE NATIONAL GEOGRAPHIC SOCIETY-U. S. ARMY STRATOSPHERE FLIGHT OF 1935 IN THE BALLOON "EXPLORER II"—*Nat. Geographic Soc.,* 277 p., illus., $1.50. Complete scientific findings of the 1935 stratosphere flight in both technical and non-technical language. Many original photographs and diagrams lend interest.

Science News Letter, January 23, 1937

Physical Chemistry

ELEMENTARY PRINCIPLES IN PHYSICAL CHEMISTRY—T. J. Webb—*Appleton-Century,* 344 p., $4. A Princeton University text for juniors and seniors in college. The content of the book revolves, states the author, around those two fundamental problems of theoretical chemistry—the state of equilibrium in a chemical reaction and the rate at which the state of equilibrium is attained.

Science News Letter, January 23, 1937

•First Glances at New Books

Additional Reviews On Page 63

Ichthyology

MARINE FISHES OF SOUTHERN CALIFORNIA—Percy Spencer Barnhart—*Univ. of California,* 209 p., illus., $4. Pages 1 to 95 are descriptive text, concise, accurate, provided with necessary "keys"; pages 99 to 186 show forth 290 cleanly made line illustrations of species described in the text; the rest is glossary, bibliography, and index. Altogether this is a book that will be extremely useful for the region it covers, and one which other authors might well take as a model for similar treatment of the fauna of other regions. Mr. Barnhart, a veteran member of the Scripps Institution staff, has spent many years in accumulating the data which he here makes available in an admirable combination of comprehensiveness and condensation.

Science News Letter, January 23, 1937

Physics

RELATIVITY THEORY OF PROTONS AND ELECTRONS— Sir Arthur Eddington—*Cambridge (Macmillan)*, 329 p., $5.50. See page 53.

Science News Letter, January 23, 1937

General Science

SCIENCE IN DAILY LIFE—Gilbert H. Trafton and Victor C. Smith—*Lippincott,* 689 p., $1.68. A high school text in general science with above-the-average illustrations.

Science News Letter, January 23, 1937

Electricity and Magnetism

PRINCIPLES OF ELECTRIC AND MAGNETIC MEASUREMENTS—P. Vigoureux and C. E. Webb—*Prentice-Hall,* 392 p., $5. From the National Physical Laboratories of Great Britain come these two authors to acquaint students of physics or electrical engineering with the principles and practice underlying electricity and magnetism.

Science News Letter, January 23, 1937

Parasitology

CONTROL OF ANIMAL PARASITES, GENERAL PRINCIPLES AND THEIR APPLICATION—Maurice C. Hall—*North American Veterinarian,* 162 p., $2. Probably no man living knows animal parasitology more thoroughly from a scientific standpoint than does Dr. Hall, who has served his country with distinction in both the Department of Agriculture and the Public Health Service; nor has he many peers in the combination of imagination and practicality necessary for successful effort against parasite-induced diseases. In this book he follows throughout a most stimulating analogy of military action: effort against any given parasite species is seen as war, campaigns are planned, heavy and light artillery posted, mop-up troops sent in at the right moment. It all serves to vivify what must seem at times, especially to younger sanitarians, a rather dirty and dreary job—not unlike real war in that respect, either. But quite unlike war in being wholly beneficial in results.

Science News Letter, January 23, 1937

Physics

AN ELEMENTARY SURVEY OF MODERN PHYSICS—Gordon Ferrie Hull—*Macmillan,* 457 p., $4.50. A second-year text for colleges following the first course in general physics. Emphasis is less on the technical side of the field of modern theories of the atom than on the development of the atom idea, methods of estimating the dimensions and properties of atoms and tentative proposals on the possible structure of the atom.

Science News Letter, January 23, 1937

Engineering

DIESEL ELECTRIC PLANTS—Edgar J. Kates—*American Technical Society,* 181 p., $2. Another of the ever increasing number of handbooks and survey books on diesel engines, their characteristics and operation.

Science News Letter, January 23, 1937

Mathematical Physics

GEOMETRY OF TIME AND SPACE—Alfred A. Robb—*Cambridge (Macmillan)*, 408 p., $7.50. The author attempts to give mathematical form to a conception of time-space relations not based on assumptions as to the simultaneity of events at different places. It is the second edition of a book published in 1914 under the title, *A Theory of Time and Space.*

Science News Letter, January 23, 1937

Mathematics

PROGRESSIVE PLANE AND SOLID GEOMETRY—Walter W. Hart—*Heath,* 581 p., $1.60. A complete text on the subject with a wealth of problems. The low cost permits few of the modern-type book "dress-ups" to be used, so that the husky volume looks like all work and no play for the oncoming generation of students.

Science News Letter, January 23, 1937

Botany—Meteorology

CYCLES IN TREE-RING WIDTHS—C. G. Abbot—*Smithsonian Institution,* 5 p., 5c. Pursuing further the studies which showed him a 23-year cycle in tree-ring widths, Dr. Abbot now finds multiples of that basic number in cycles of 46 and 92 years respectively.

Science News Letter, January 23, 1937

Mathematics

THE ASYMPTOTIC DEVELOPMENTS OF FUNCTIONS DEFINED BY MACLAURIN SERIES—Walter B. Ford—*University of Michigan Press,* 143 p., $2. Volume eleven in the University of Michigan series of scientific studies. A very advanced monograph on a specialized type of series expansion.

Science News Letter, January 23, 1937

Calendar Reform

CALENDAR REFORM, WHAT DOES IT MEAN?—Alvin W. Johnson—*Broadview Press,* 173 p., $1.50. A discussion that holds that a new calendar satisfactory to business must also be satisfactory to religion. Opposition is expressed to any attempt that makes use of a blank day or fails to preserve the weekly cycle.

Science News Letter, January 23, 1937

Physics

BEYOND EINSTEIN, A RE-INTERPRETATION OF NEWTONIAN DYNAMICS—Theodore Stalzer—*Dorrance,* 170 p., $2.50. Critical discussion of relativity theory and a re-interpretation of Newtonian principles.

Science News Letter, January 23, 1937

Physics

A SURVEY COURSE IN PHYSICS—Carl F. Eyring—*Prentice-Hall,* 378 p., illus., $3. Text for an orientation course in physics for non-science students. The author, dean of sciences at Brigham Young University, warns that the book is in no way intended to replace the general texts on the subject.

Science News Letter, January 23, 1937

Electricity

GENERAL ELECTRICAL WORK; AN ELEMENTARY COURSE, PROBLEMS, PROCESSES, RELATED INFORMATION—George A. Willoughby—*Manual Arts Press,* 95 p., 56c. A practical, compact book which will enable the novice—or even Mrs. Novice—to fix many of those electrical gadgets around the house.

Science News Letter, January 23, 1937