

•First Glances at New Books

Additional Reviews
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ORNITHOLOGY

THE BIRDS OF AMERICA—John James Audubon — *Macmillan*, colored illus., \$4.95. When the first printing of this volume appeared, four years ago, it was a matter for congratulation that it sold for only \$12.50. Now, a reduction to less than half that price puts this splendid set of reproductions of the "elephant folio" plates within the reach of additional thousands of bird lovers and book lovers. For a person in either of those two large groups, a better Christmas gift can hardly be imagined.

Science News Letter, November 29, 1941

BIOLOGY

MANUAL OF BIOLOGY (6th ed.)—George Alfred Baitsell—*Macmillan*, 448 p., \$2.75. New edition of a successful textbook.

Science News Letter, November 29, 1941

CHEMISTRY

QUALITATIVE ANALYSIS (3d ed.)—H. V. Anderson and T. H. Hazlehurst—*Prentice-Hall*, 266 p., \$3.70 trade; \$2.75 school. In this edition, more attention is paid to acid-base reactions and to oxidation-reduction reactions. Semi-micro techniques are treated along with macro techniques. New exercises have been added and the tables brought to date.

Science News Letter, November 29, 1941

CHEMISTRY

PRINCIPLES OF GENERAL CHEMISTRY (3d ed.)—Stuart R. Brinkley—*Macmillan*, 703 p., illus., \$4. This edition, like the preceding editions is intended as a second college course for students who have had some preparation. A chapter has been added dealing with the nucleus of the atom, artificial radioactivity, transmutation and nuclear fission.

Science News Letter, November 29, 1941

ECONOMICS

THE DEVELOPMENT OF AMERICAN INDUSTRIES, Their Economic Significance (rev. ed.)—John George Glover and William Bouck Cornell, eds.—*Prentice-Hall*, 1005 p., \$5.50 trade; \$4.50 school. How things are made and were made in 39 major industries in this country, is told in this book. In this revised edition, statistics are brought up to date, changes in methods of production are discussed and new products are described.

Science News Letter, November 29, 1941

CHEMISTRY

TEXTBOOK OF QUANTITATIVE ANALYSIS (3d ed.) — William Thomas Hall—*Wiley*, 364 p., illus., \$3. This new edition

of a standard text incorporates changes suggested by the author's ten years experience with it in the class-room. New material has been added on steel analysis, the glass electrode, acidimetry and gravimetric analysis.

Science News Letter, November 29, 1941

TECHNOLOGY

RUBBER RED BOOK, Directory of the Rubber Industry, 1941—*Rubber Age*, 511 p. \$5.

Science News Letter, November 29, 1941

CHEMISTRY

A BRIEF COURSE IN ORGANIC CHEMISTRY, A Combined Textbook and Laboratory Manual—Reynold C. Fuson, Ralph Connor, Charles C. Price and H. R. Snyder—*Wiley*, 248 p., \$2.50. This text aims to acquaint students of agriculture, home economics and medicine as quickly as possible with the chemistry of those materials that will later concern them in their professions.

Science News Letter, November 29, 1941

ETHNOLOGY

PEACHTREE MOUND AND VILLAGE SITE, CHEROKEE COUNTY, NORTH CAROLINA—Frank M. Setzler, Jesse D. Jennings and T. D. Stewart—*Govt. Print. Off.*, 103 p., illus., 40c. Describes excavations at a site which may well be the Indian town Guasili visited by De Soto. The inhabitants from prehistoric times on had a blended Woodland and Mississippi culture and were probably all Cherokee.

Science News Letter, November 29, 1941

MECHANICAL ENGINEERING

TOOL DESIGN, Fundamental Principles of Design as Applied to Tooling for Production — Charles Bradford Cole—*American Technical Soc.*, 498 p., \$4.50. This treatise is a companion piece to the more popular book "Tool Making" by the same author. It covers the same ground, but stresses the design rather than the making of tools. The style is simple and direct. The beginner will find useful information and the expert will find suggestions that will help him in many problems.

Science News Letter, November 29, 1941

ENGINEERING

THE ST. LAWRENCE SURVEY, Part III, Potential Traffic on the St. Lawrence Seaway—N. R. Danielian—*Govt. Print. Off.*, 342 p., 40c.

Science News Letter, November 29, 1941

MEDICINE

THE ADVANCING FRONT OF MEDICINE—George W. Gray—*Whittlesey House*, 425 p., \$3.00. Here is an exceptionally well written book which brings the layman up-to-date on the aspects of medicine of most interest to him—sleep, pain, cancer, drink, anxiety, allergy, the sulfa drugs, etc. There is a valuable closing chapter on aging—a field of medicine just beginning to receive special scientific attention.

Science News Letter, November 29, 1941

MECHANICAL ENGINEERING

HOW TO TRAIN SHOP WORKERS—C. A. Prosser in collaboration with Philip S. Van Wyck—*American Technical Soc.*, 126 p., \$1.25. A manual for use by foremen and instructors in training men in shop work, particularly in efficient habits of work and of workmanship. It is written in a simple "how-to-do-it" style and should be useful both to instructors and learners.

Science News Letter, November 29, 1941

PHOTOGRAPHY

THE AMERICAN ANNUAL OF PHOTOGRAPHY, 1942 (Vol. 56)—Frank R. Fraprie and Franklin I. Jordan, eds.—*American Photographic Pub. Co.*, 280 p., illus., \$2.25 cloth; \$1.50 paper. A beautiful volume of photographs and articles about photography, containing also the "Who's Who in Pictorial Photography."

Science News Letter, November 29, 1941

CHEMISTRY

QUANTITATIVE ANALYSIS (Rev. ed.)—Eugene W. Kanning—*Prentice-Hall*, 471 p., Trade, \$3.70; Schools, \$3. While preserving the method of presentation of the first edition, a large part of the text has been rewritten and enlarged in the manner that class use indicated as desirable. A brief description of polarography and of the modern theories of electrolytic dissociation has been added.

Science News Letter, November 29, 1941

CHEMISTRY

FUNDAMENTALS OF CHEMISTRY (5th ed.) L. Jean Bogert—*Saunders*, 528 p., illus., \$3.

LABORATORY MANUAL OF CHEMISTRY (4th ed.)—L. Jean Bogart—*Saunders*, 165 p., 75c. Chemistry from the biological angle is the viewpoint of the new as well as of the old editions of these two books. Only so much of inorganic chemistry is given as is necessary to understand the uses of chemistry in biology, medicine and nursing.

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MEDICINE—GENETICS

MEDICAL GENETICS—Laurence H. Snyder—*Duke Univ. Press*, 130 p., illus., \$1.50. An excellent little handbook on modern genetic knowledge, not too technical for laymen. It contains much practical advice on marriage under circumstances of inheritable diseases, including cancer-tendency inheritance. The book should help clear up considerable misunderstanding about just what is known and what must be learned about genetics.

Science News Letter, November 29, 1941

MATHEMATICS

THE PENGUIN PROBLEMS BOOK—W. T. Williams and G. H. Savage—*Penguin*, 156 p., 25c. A collection of curious mathematical and word problems with solutions in the back of the book.

Science News Letter, November 29, 1941

CHEMISTRY

THE GLASS ELECTRODE: Methods, Applications, and Theory—Malcolm Dole—*Wiley*, 332 p., illus., \$4.50. All pertinent material concerning pH (hydrogen ion or acidity) measurements with the glass electrode is presented in this monograph. A brief review of other methods of pH measurement and of the history of the glass electrode, its difficulties and limitations, is included.

Science News Letter, November 29, 1941

PHYSICS

INTRODUCTION TO PHYSICAL STATISTICS—Robert Bruce Lindsay—*Wiley*, 306 p., \$3.75. A thorough but not too lengthy introduction to the method of statistical physics for students with a background of theoretical physics. The use of statistical reasoning in physics is surveyed from early classical applications to modern quantum mechanics.

Science News Letter, November 29, 1941

ANTHROPOLOGY

DISEASES OF AND ARTIFACTS ON SKULLS AND BONES FROM KODIAK ISLAND—Ales Hrdlicka—*Smithsonian Institution*, 14 p., 11 pl., 20c. (Miscellaneous Collections, Vol. 101, No. 4). See SNL Oct. 25, p. 264

Science News Letter, November 29, 1941

ICHTHYOLOGY

SYSTEMATIC CATALOGUE OF THE FISHES OF TORTUGAS, FLORIDA, With Observations on Color, Habits, and Local Distribution—William H. Longley and Samuel F. Hildebrand—*Carnegie Institution of Washington*, 331 p., 34 pl., \$2.50 paper; \$3.50 cloth. Ichthyologists,

and zoologists generally, have been waiting for a long time for the completion of this work, which the late Prof. Longley started a quarter of a century ago. Happily now it has been brought to publication by a colleague, so that it may take its rightful place on the reference shelves of working libraries.

Science News Letter, November 29, 1941

MEDICINE

MAN, MICROBE AND MALADY—John Drew—*Penguin*, 218 p., illus. 25c. A clear but accurate account for the general reader of the more common bacteria and what they do to—and for, men. Especially interesting is the final chapter which concludes that use of bacteria as weapons in wartime is virtually impossible.

Science News Letter, November 29, 1941

TECHNOLOGY

PLASTICS—V. E. Yarsley and E. G. Couzens—*Penguin*, 16 p., 25c. Despite its diminutive size, this little book contains about everything the layman would like to know about plastics, their history, chemistry, properties, sources, manufacture and uses.

Science News Letter, November 29, 1941

GEOLOGY

OUTLINES OF GEOLOGY, A Combination of OUTLINES OF PHYSICAL GEOLOGY by Chester R. Longwell, Adolph Knopf and Richard F. Flint and **OUTLINES OF HISTORICAL GEOLOGY** by Charles Schuchert and Carl O. Dunbar (2d ed.)—*Wiley*, 672 p., \$4. Revised edition of a combination text that has proved its worth in the four years that have elapsed since its first appearance.

Science News Letter, November 29, 1941

PUBLIC HEALTH

ORIENTATION IN SCHOOL HEALTH—Clair V. Langton—*Harper*, 680 p., illus., \$3. Designed to give school teachers, principals and superintendents fundamental information on organization and administration of a school health program.

Science News Letter, November 29, 1941

TECHNOLOGY

GLASS: The Miracle Maker, Its History, Technology and Applications—C. J. Phillips—*Pitman*, 424 p., illus., \$4.50. Everything about glass, its history, chemistry, physical and chemical properties, manufacture and application, both useful and decorative. Also a chapter on fiber glass.

Science News Letter, November 29, 1941

MILITARY SCIENCE

BOMBS AND BOMBING—Willy Ley—*Modern Age Books*, 121 p., illus., \$1.25. This is one of the most useful of the rather numerous books on military topics that have been appearing lately. Although brief, it is well packed with definitely established facts; and (what is perhaps of equal importance) it does a lot of beneficial debunking of pre-war "scare stuff" still rather widely accepted.

Science News Letter, November 29, 1941

ENGINEERING

FLUID MECHANICS AND STATISTICAL METHODS IN ENGINEERING—Hugh L. Dryden and others—*Univ. of Pennsylvania Press*, 146 p., illus., \$1.75. The mechanics of fluids as applied to airplanes and projectiles are discussed and illustrated. The contributions of mathematical statistics to science and engineering and to purchasing specifications and their relations to law and legislation are presented.

Science News Letter, November 29, 1941

ASTRONOMY

MAGNITUDES AND COLORS OF STARS NORTH OF + 80°—Frederick H. Seares, Frank E. Ross and Mary C. Joyner—*Carnegie Institution of Washington*, 89 p., \$1.50 paper, \$2 cloth.

Science News Letter, November 29, 1941

NUTRITION

AMERICA'S NUTRITION PRIMER, What to Eat and Why—Eleanora Sense—*Barrows*, 95 p., \$1. A simple, practical guide, with menus and recipes, to good diet for good health. Restaurant eaters are not overlooked, nor are those who want to add to or reduce their weight.

Science News Letter, November 29, 1941

ARCHAEOLOGY

LOST WORLDS, Adventures in Archaeology—Anne Terry White—*Random House*, 316 p., \$2.50. A very attractive introduction to the science of archaeology for young readers. Mrs. White tells the stories of great digging discoveries—the Palace of Minos, Rosetta Stone, Tutankhamen, and many others—and to the telling she adds a good deal of scientific background.

Science News Letter, November 29, 1941

SOCIOLOGY—ECONOMICS

THE AMERICAN JOURNAL OF ECONOMICS AND SOCIOLOGY, Vol. I, No. 1, Oct., 1941—*American Journal of Economics and Sociology, Inc.*, Quarterly, \$3. See page 345.

Science News Letter, November 29, 1941