

•First Glances at New Books

Additional Reviews
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PSYCHOLOGY

SYMPOSIUM ON RECENT ADVANCES IN PSYCHOLOGY; Papers Read Before The American Philosophical Society, Annual General Meeting, April 25, 1941—*American Philosophical Society*, 102 p., 75c. Of interest to layman and scientist alike is this group of papers by Drs. Karl S. Lashley, Arnold Gesell, Wolfgang Köhler, Edward L. Thorndike, Carney Landis, Robert M. Yerkes and Edward C. Tolman. The contributions of Dr. Yerkes and Dr. Tolman have a special significance in connection with present world conditions.

Science News Letter, August 30, 1941

ANTHROPOLOGY

AZTECS OF MEXICO, Origin, Rise and Fall of the Aztec Nation—George C. Vaillant—*Doubleday, Doran*, 340 p., illus., \$4. See page 134.

MEDICINE

PAPERS OF WADE HAMPTON FROST, M.D., A Contribution to Epidemiological Method — Kenneth F. Maxcy, ed. — *Commonwealth Fund*, 628 p., \$3.

Science News Letter, August 30, 1941

ENGINEERING

HIGHWAY RESEARCH BOARD, Proceedings of the Twentieth Annual Meeting Held at Washington, D. C., December 3-6, 1940—Roy W. Crum, ed. — *Natl. Research Council*, 883 p., illus., \$3.25.

Science News Letter, August 30, 1941

CHEMISTRY

EMULSIONS AND FOAMS—Sophia Berkman and Gustav Egloff—*Reinhold*, 591 p., illus., \$8.50. Emulsified oils useful in medicine, chemistry and industry, such hydrocarbon emulsions as asphalt, bitumen and lubricating-oil emulsions, and foams used industrially are covered theoretically and practically. Preventive measures are also covered in this very complete work.

Science News Letter, August 30, 1941

PHYSICS

FUNDAMENTALS OF PHYSICAL SCIENCE, An Introduction to the Physical Sciences—Konrad Bates Krauskopf—*McGraw-Hill*, 660 p., \$3.50. Starting with a section on the solar system, then to such topics as "matter and energy", "fundamental processes", to end with "stars and galaxies", this book is intended to summarize man's knowledge about the world in which he lives. Refreshing is the admission of some uncertainties —

the statement, for example, that "the earth's origin remains cloaked in mystery."

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PHYSIOLOGY

SO TO SPEAK, A Practical Course to Develop Poise and Personality Through Effective Speech—Elisabeth Ferguson von Hesse—*Stokes*, 498 p., \$3. See p. 141.

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CHEMISTRY

TEXTBOOK OF CHEMISTRY — Albert L. Elder—*Harper*, 751 p., illus., \$3.75. This excellent new text for a beginning course in college chemistry, approaches the subject by way of physical chemistry, devoting the opening chapters to atomic structure, including nuclear transformations.

LABORATORY MANUAL FOR GENERAL CHEMISTRY—Albert L. Elder—*Harper*, 259 p., \$2. A manual designed for use with the same author's "Textbook of Chemistry."

Science News Letter, August 30, 1941

PHYSIOGRAPHY

THE EARTH AND ITS RESOURCES, A Modern Physical Geography—Vernor C. Finch, Glenn T. Trewartha and M. H. Shearer—*McGraw-Hill*, 634 p., illus., \$2.40. A textbook in physical geography, for high school use.

Science News Letter, August 30, 1941

CHEMISTRY

AN INTRODUCTION TO QUANTITATIVE CHEMICAL ANALYSIS—Warren C. Vosburgh—*Holt*, 356 p., \$2.75. A new text designed for a one semester course "in which theory and practice are given about equal weight."

Science News Letter, August 30, 1941

FORESTRY—AGRICULTURE

FORESTRY IN FARM MANAGEMENT—R. H. Westveld and Ralph H. Peck—*Wiley*, 339 p., illus., \$3. A thoroughly practical book that should form the foundation of a required course for every student in agricultural colleges—and be carried home for frequent reference after graduation.

Science News Letter, August 30, 1941

BIOLOGY

GENERAL BIOLOGY (Rev. ed.)—James Watt Mavor—*Macmillan*, 897 p., illus., \$4. New edition of a well-received textbook for college use.

Science News Letter, August 30, 1941

GEOGRAPHY

OUR LATIN AMERICAN NEIGHBORS — Philip Leonard Green—*Hastings House*, 182 p., \$2. A pleasantly written book on that popular subject, what the Latin Americans are like, their psychology, historic and cultural background, their great men and their place in Western Hemisphere affairs.

Science News Letter, August 30, 1941

PHYSICS

PHYSICS FOR SECONDARY SCHOOLS (rev. ed.)—Oscar M. Stewart and Burton L. Cushing—*Ginn*, 760 p., illus., \$1.80. This revised edition incorporates changes suggested by the experience of teachers who have used it as a text.

Science News Letter, August 30, 1941

ZOOLOGY

MAMMALS OF THE LAVA FIELDS AND ADJOINING AREAS IN VALENCIA COUNTY, NEW MEXICO—Emmet T. Hooper — *Univ. of Mich. Press*, 47 p., 3 pl., 50c.

Science News Letter, August 30, 1941

PUBLIC HEALTH

THE UNIVERSITY AND PUBLIC HEALTH STATESMANSHIP—Arthur P. Hitchens and others—*Univ. of Penn. Press*, 33 p., 50c. Addresses from the University of Pennsylvania Bicentennial Conference.

Science News Letter, August 30, 1941

LIBRARY SCIENCE

LIBRARY OF CONGRESS RULES FOR FILING CARDS IN A CARD CATALOG, A Tentative Interpretation—Laurence E. Tomlinson, comp.—*Published by author, Baylor University Library, Waco, Texas*, 39 p., \$1. An extremely useful booklet for use in libraries. It will save much time and confusion to have one or two of these available for use by assistants filing cards, as well as library patrons.

Science News Letter, August 30, 1941

MEDICINE

THE MEDICAL CLINICS OF NORTH AMERICA—Saunders, bimonthly, paper, \$12 per clinic year; cloth, \$16 per clinic year. May 1941, Vol. 25, No. 3, New York Number, 266 p.

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BIBLIOGRAPHY

BIBLIOGRAPHY, A Beginner's Guide to the Making, Evaluation and Use of Bibliographies—Marion Villiers Higgins—*Wilson*, 42 p., 60c. A brief, well-arranged text for first year library school students.

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PHYSICS

NEW ELEMENTARY PHYSICS—Robert Andrews Millikan, Henry Gordon Gale and James P. Coyle—*Ginn.*, 637 p., illus., \$1.80. This is the latest revision of a work originally published in 1906 and in which, in a long succession of editions, under varying titles, many a physicist had his first introduction to his subject. Such up-to-date topics as air conditioning, television, cosmic rays, transmutation of elements, etc. are included. For the first time, a new name appears on the title page as collaborator, that of James P. Coyle, head of the department of physics of Lane Technical High School, Chicago.

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ENGINEERING

A YARDSTICK FOR THE EVALUATION OF A FORCED WARM AIR HEATING SYSTEM—*National Warm Air Heating and Air Conditioning Assn.*, 23 p., illus., 25c.

Science News Letter, August 30, 1941

ASTRONOMY

SPEAKING OF EARTH—Gertrude Gouvy—*Bruce Humphries*, 64 p., illus., \$1. A little book on astronomy for children illustrated with numerous diagrams prepared in an amusing cartoon fashion.

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MATHEMATICS

GUIDE TO TABLES IN THE THEORY OF NUMBERS—Derrick Henry Lehmer—*National Research Council*, 177 p., \$2.50. (Bulletin No. 105.) A guide to the many tables concerning the theory of numbers that are scattered throughout the literature, and an extensive bibliography, by the author of the *Factor Tables and the List of Prime Numbers* of the Carnegie Institution. An extremely valuable feature of the present work is a list of all known errata in all the tables surveyed, which until now were still more scattered and unavailable than the tables.

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TECHNOLOGY

PLASTICS IN INDUSTRY—"Plastes"—*Chemical Pub. Co.*, 241 p., \$5. In this book plastics are described from celluloid (1875) down to synthetic rubber and nylon of the present day. The author does not go deeply into the chemistry of the subject, but gives the ingredients from which the various plastics are made, and describes the machinery for moulding them. Applications are discussed to the electrical, automobile, aircraft, tex-

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tile, building, and furniture industries, as well as innumerable miscellaneous uses down to false teeth.

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ENGINEERING

CROSBY-FISKE-FORSTER HANDBOOK OF FIRE PROTECTION (9th ed.)—Robert S. Moulton, ed.—*National Fire Protection Assn.*, 1308 p., \$4.50. This is a complete revision of the 8th edition published in 1936, with detailed treatment of the numerous new developments in fire protection during the past five years and revision of all data that have become obsolete.

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PHOTOGRAPHY

THE SCIENTIFIC PHOTOGRAPHER—A. S. C. Lawrence—*Cambridge (Macmillan)*, 180 p., illus., \$3.75. This carefully written and authoritative work will fill a need, for there has been no recent book, dealing with the important uses of photography in science.

Science News Letter, August 30, 1941

GENERAL SCIENCE

BOYS' BOOK OF SCIENCE AND CONSTRUCTION (rev. ed.)—Alfred P. Morgan—*Lothrop, Lee & Shepard*, 448 p., illus., \$2.50. For boys who want to experiment there are presented many of the fundamental principles and demonstrations of simple physical science.

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HISTORY

THE UNTAMED BALKANS—Frederic W. L. Kovacs—*Modern Age Books*, 248 p., \$2. A news correspondent, a native of Southeastern Europe, gives us his commentator's account of the Balkan pattern, Balkan relationships to Hitler and the Soviets, and the "shape of things to come."

Science News Letter, August 30, 1941

ARCHAEOLOGY

ARCHAEOLOGICAL INVESTIGATIONS AT BUENA VISTA LAKE, KERN COUNTY, CALIFORNIA—Waldo R. Wedel and T. D. Stewart—*Govt. Print. Off.*, 194 p., 57 pl., 55c. Bureau of American Ethnology Bulletin 130.

Science News Letter, August 30, 1941

ZOOLOGY

CHECK-LIST OF THE TERRESTRIAL AND FRESH-WATER ISOPODA OF OCEANIA—Harold Gordon Jackson—*Smithsonian Institution*, 35 p., 15c. (Smithsonian Misc. Coll. Vol. 99, No. 8.)

Science News Letter, August 30, 1941

ENGINEERING—BIOGRAPHY

SPEED, The Authentic Life of Sir Malcolm Campbell—J. Wentworth Day—*McKay*, 288 p., illus. Published several years ago in England, this interesting book has just appeared in the United States. It tells the romantic story of Sir Malcolm, culminating in his setting a speed record of 246 miles per hour in 1931, a speed which seems slow compared to the present one, by John R. Cobb, of 369.7 mph.

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BOTANY

FUNDAMENTALS OF PLANT SCIENCE—M. Ellen O'Hanlon—*Crofts*, 488 p., illus., \$4.25. Botanists know Sister Mary Ellen as a rigorous researcher and a thorough teacher. It is only to be expected therefore that her book will be an accurate and complete presentation of its subject. There is a great deal more in it than an average first-year student can be expected to absorb in a single course; this has been done deliberately, the author explains, so that teachers may make their own selections, and arrange their courses to suit themselves. All of the line illustrations are new and original.

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MEDICINE

NATIVE AFRICAN MEDICINE—George Way Harley—*Harvard Univ. Press*, 294 p., \$3.50. Doctors as well as anthropologists will find much of interest in this book written by a physician with over 20 years' experience as a medical missionary in West Africa.

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BIBLIOGRAPHY

AUDIO-VISUAL MATERIALS FOR JUNIOR AND SENIOR HIGH SCHOOL READING—Katherine E. Wheeling and Jane Anderson Hilson—*Wilson*, 98 p., \$1.25. Under the names of about eighty prominent literary persons are listed sources of pictures, film strips, records, bibliographic material and books, and other supplementary help.

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TECHNOLOGY

TEXTILE FIBERS AND THEIR USE (3d ed., rev.)—Katharine Paddock Hess—*Lippincott*, 530 p., illus., \$3. Since the second edition of this authoritative work, intended as a college text, such important advances in the field as the introduction of nylon and vinyon have been made. This revised edition includes these new developments.

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