

• First Glances at New Books

Additional Reviews

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GEOGRAPHY—ECONOMICS

THE GEOGRAPHIC BASIS OF AMERICAN ECONOMIC LIFE—Harold Hull McCarty—*Harper*, 702 p., \$3.75. The where, what, and particularly the why of the United States' economic development is covered in this college text, which should also prove interesting to many readers concerned with business or trade. For study, the country is divided into ten economic and geographic regions, and the analysis advances from the most easily understood situations to the most complex.

Science News Letter, July 27, 1940

HISTORY

THE ATLANTIC MIGRATION, 1607-1860, A History of the Continuing Settlement of the United States—Marcus Lee Hansen—*Harvard Univ. Press*, 391 p., \$3.50. Taking his viewpoint from Europe's shores, rather than in America, Prof. Hansen shows why Europeans left their homes to people the United States. There is a dramatic, deeply moving epic in the hopes and fears of these millions, and the historian has re-captured the spirit as well as the significant forces of successive eras.

Science News Letter, July 27, 1940

HISTORY

TURKEY AT THE STRAITS, A Short History—James T. Shotwell and Francis Deák—*Macmillan*, 196 p., \$2. Especially timely is this account of the Straits of the Dardanelles and Bosphorus, highly strategic waterways linking the Black Sea and the Mediterranean. Rapidly covering earlier events, the major part of the book deals with diplomacy and treaties of the present century.

Science News Letter, July 27, 1940

ARCHAEOLOGY

THE ANCIENT STONES CRY OUT—Peyton Hervey Enniss—*Biblical Treasures*, 124 p., \$1. A popular account of archaeological evidence which clarifies and upholds Bible narrative. The author weakens his argument by including some doubtful authorities and reaching some sweeping conclusions.

Science News Letter, July 27, 1940

GENERAL SCIENCE

SCIENCE SINCE 1500—H. T. Pledge—*British Library of Information*, 357 p., \$2.15. From the Science Museum in London comes this short history of mathematics, physics, chemistry and biology, with interesting compilations and com-

parisons not found elsewhere. Charts show the connection between teachers and pupils and maps show the birth places of scientists, principally in Europe.

Science News Letter, July 27, 1940

GENERAL SCIENCE

THE PHILOSOPHY OF POWER, First Principles—Donald Murray—*Williams and Norgate, Great Russell Street, London, England*, 336 p., 12s. 6d. This is the first of what is intended to be a six-volume survey of power in the widest possible sense—human as well as mechanical power. As such, this book devotes itself in considerable part to an outline and declaration of what the entire work is to be. A considerable mass of data accumulated but never worked up by the late Dr. E. E. Slosson will constitute a part of one of the later volumes.

Science News Letter, July 27, 1940

ECONOMICS

THE MODERN RAILWAY—Julius H. Parmelee—*Longmans, Green*, 730 p., \$4. An authoritative and definitive treatment of one of America's greatest industries, written by the director of the Bureau of Railway Economics of the Association of American Railroads.

Science News Letter, July 27, 1940

PHYSICS

ELEMENTS OF ELECTRO-MAGNETIC THEORY—A. Wilmer Duff and Samuel J. Plimpton—*Blakiston*, 175 p., \$2.75. Here is an excellent textbook for an intermediate course in physics which contains the major essentials of the fundamental electro-magnetic theory.

Science News Letter, July 27, 1940

PHOTOGRAPHY

PHOTOGRAPHIC FACTS AND FORMULAS—E. J. Wall; revised and largely rewritten by Franklin I. Jordan—*American Photographic Pub. Co.*, 384 p., \$2.50. An excellent reference book for the dark-room shelf of either the amateur or the professional photographer.

Science News Letter, July 27, 1940

ZOOLOGY

AMPHIBIANS AND REPTILES IN NEVADA—Jean M. Linsdale—*American Academy of Arts and Sciences*, 60 p., maps, \$1.85. (Proceedings of the American Academy of Arts and Sciences, Vol. 73, No. 8, May, 1940)

Science News Letter, July 27, 1940

EVOLUTION

THE MATERIAL BASIS OF EVOLUTION—Richard Goldschmidt—*Yale Univ. Press*, 436 p., illus., \$5. A new approach to the old, yet ever fresh problem of evolution. As might be expected from the author's own professional training and background, the approach is primarily genetical. He holds that the neo-Darwinian theory applies only within the species and is no longer tenable as a general theory of evolution. To account for larger changes, he offers a theory based on mutational changes in the hereditary materials controlling reaction velocities in development.

Science News Letter, July 27, 1940

BOTANY

FLORAL MORPHOLOGY, A New Outlook with Special Reference to the Interpretation of the Gynaecium, Vol. II—E. R. Saunders—*Chemical Pub. Co.*, 473 p., \$4.25. This second volume completes a work (Vol. I published in 1937) which will be of considerable interest to professional botanists, especially in the fields of morphology, taxonomy and phylogeny.

Science News Letter, July 27, 1940

BOTANY—EXPLORATION

TRAVELS OF RUIZ, PAVÓN, AND DOMBEY IN PERU AND CHILE (1777-1788)—Hipólito Ruiz—*Field Museum of Natural History*, 372 p., 2 maps, \$3.50. (Botanical Series, Vol. 21, Publication 467). Botanists, especially plant geographers, will find great interest in this full publication, in good English translation, of the travel diaries of three pioneer Spanish botanists of the eighteenth century.

Science News Letter, July 27, 1940

PALEONTOLOGY

A CHECK-LIST OF THE FOSSIL BIRDS OF NORTH AMERICA—Alexander Wetmore—*Smithsonian Inst.*, 81 p., 30c. (Smithsonian Misc. Coll., Vol. 99, No. 4) See page 55.

Science News Letter, July 27, 1940

GEOLOGY

METAMORPHISM IN THE SOUTHERN SIERRA NEVADA NORTHEAST OF VISALIA, CALIFORNIA—Cordell Durrell—*Univ. of Calif.*, 117 p., illus., \$1.25.

Science News Letter, July 27, 1940

BIOLOGY—CHEMISTRY

AN INTRODUCTION TO BIOCHEMISTRY (2d. ed.)—William Robert Fearon—*Mosby*, 475 p., \$3.75.

Science News Letter, July 27, 1940

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MEDICINE

UNTO THE FOURTH GENERATION, GONORRHEA AND SYPHILIS, What the Layman Should Know—Irving Simons—*Dutton*, 243 p., illus., \$2.50. This book, with its clear and forceful style and its frequent repetition of important points, should do much to help the fight against venereal diseases by giving the layman both necessary knowledge and impetus for taking part in the fight. Drawings and a glossary of medical terms help to make the subject clear.

Science News Letter, July 27, 1940

HYGIENE

THE FUNDAMENTALS OF PERSONAL HYGIENE, Including Their Practical Application to Healthful Living (3rd. ed., rev.)—Walter W. Krueger—*Saunders*, 304 p., illus., \$1.75. Text for high school students which should appeal to them because of its grown-up style.

Science News Letter, July 27, 1940

MEDICINE

CARDIOVASCULAR-RENAL DISEASE—Lawrence W. Smith, Edward Weiss, Walter I. Lillie, Frank W. Knozelmann and Edwin S. Gault—*Appleton-Century*, 227 p., illus., \$4.50.

Science News Letter, July 27, 1940

ANATOMY

FUNCTIONAL HUMAN ANATOMY — Cleveland Pendleton Hickman—*Prentice-Hall*, 501 p., illus., \$3.75. Text book for medical students.

Science News Letter, July 27, 1940

MEDICINE

A SYMPOSIUM ON THE BLOOD AND BLOOD-FORMING ORGANS — E. Meulengracht and others—*University of Wisconsin Press*, 264 p., \$3.50.

Science News Letter, July 27, 1940

MEDICINE

SHOCK, Blood Studies as a Guide to Therapy — John Scudder — *Lippincott*, 323 p., illus., \$5.50. For physicians and medical scientists.

Science News Letter, July 27, 1940

MEDICINE

THE MARCH OF MEDICINE—Edited by the Committee on Lectures to the Laity of the New York Academy of Medicine—*Columbia Univ. Press*, 168 p., \$2. Those laymen who did not have the opportunity of hearing these interesting lectures on medical progress will enjoy

reading the book—and possibly many who heard the lectures will want the book for further study.

Science News Letter, July 27, 1940

MEDICINE

THE 1939 YEAR BOOK OF DERMATOLOGY AND SYPHILIOLOGY—Fred Wise and Marion B. Sulzberger, eds.—*Year Book Publishers*, 740 p., \$3.

Science News Letter, July 27, 1940

MEDICINE

JEWISH CONTRIBUTIONS TO MEDICINE IN AMERICA FROM COLONIAL TIMES TO THE PRESENT (2d. ed)—Solomon R. Kagan—*Boston Med. Pub. Co.*, 792 p., illus., \$3.50. Medical biographies, well arranged and indexed.

Science News Letter, July 27, 1940

MATHEMATICS

METRIC DIFFERENTIAL GEOMETRY OF CURVES AND SURFACES — Ernest Preston Lane—*Univ. of Chicago Press*, 216 p., \$3. "This book is designed as a text for first-year graduate students of metric differential geometry and for independent reading. Plane analytic geometry, three dimensional analytic geometry, and calculus are prerequisite for understanding the developments, but vectors are not used."

Science News Letter, July 27, 1940

RADIO

GETTING ACQUAINTED WITH RADIO—Alfred Morgan—*Appleton-Century*, 285 p., illus., \$2.50. In the first parts of this book the fundamentals of radio are given, while the second part is more concerned with information for radio amateurs, including suggestions and instructions on how to obtain a transmitting license.

Science News Letter, July 27, 1940

PHYSICS—CHEMISTRY

THE PHYSICAL SCIENCES — Emmett James Cable, Robert Ward Getchell and William Henry Kadesch—*Prentice-Hall*, 754 p., illus., trade, \$5; school, \$3.75. This book should be useful as a text for a college survey course, or for the general reader who wishes to cover the field. Reading references, and questions for each chapter, are contained in appendices.

Science News Letter, July 27, 1940

MEDICINE

IMMUNE-BLOOD THERAPY OF TUBERCULOSIS — Joseph Hollós — Bruce Humphries, 197 p., \$2.50.

Science News Letter, July 27, 1940

HOME ECONOMICS—CHEMISTRY

THE CHEMICAL COMPOSITION OF FOODS —R. A. McCance and E. M. Widdowson—*British Library of Information*, 150 p., \$1.20. (Medical Research Council, Special Report Series, No. 235) Designed primarily to assist British physicians, nutritionists and others concerned in prescribing diets for sick persons, this book will undoubtedly appeal to those laymen in America and England who are curious about the chemical composition of the foods they eat. If you have a yen to know how much iron, or fat, or sugar, or other chemicals you get out of an apple dumpling, for example, you will find the answer here, together with the recipe for the apple dumplings whose chemical composition was determined. For those whose interest is more serious, the book will prove extremely useful.

Science News Letter, July 27, 1940

ENGINEERING

PUBLIC WORKS ENGINEERS' YEARBOOK, 1940, Including the Proceedings of the 1939 Public Works Congress, Held at Pittsburgh, Pa., Oct. 9-11, 1939—*American Public Works Assoc.*, 338 p., \$3.50. The papers included here cover such subjects as sewage disposal, traffic control, street paving and city planning. There is also a list of the members of the American Public Works Association.

Science News Letter, July 27, 1940

ENGINEERING

FUELS AND THEIR UTILIZATION—A. R. Carr and C. W. Selheimer—*Pitman*, 180 p., illus., \$2. The various fuels used in current practice, methods of their utilization, tests to increase and maintain efficiency in their use, are discussed in this new book.

Science News Letter, July 27, 1940

ELECTRICAL ENGINEERING

INDUCTION MOTORS—S. Gordon Monk—*Chemical Pub. Co.*, 126 p., diagrams, \$2. The fundamental principles of induction motors, as well as their applications, are described in this concise British work.

Science News Letter, July 27, 1940

EXPLORATION

EXPLORATIONS AND FIELD-WORK OF THE SMITHSONIAN INSTITUTION IN 1939 — *Smithsonian Institution*, 96 p., *Free upon direct application to Smithsonian Institution, Washington, D. C.*

Science News Letter, July 27, 1940