

•First Glances at New Books

Additional Reviews
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EVOLUTION

MAN AND THE VERTEBRATES—Alfred Sherwood Romer—*Univ. of Chicago Press*, 405 p., illus., \$4.75. A new approach, from all possible scientific angles, to the old problem of "What Is Man?" The student is carried through the evolution of the vertebrates, shown the fascinating but still fragmentary array of early human remains (which seem to become only more puzzling as new additions are made), given a rapid but adequate view of comparative modern anthropology and of the development, structures and functions of his own body. Illustrations are lavish and of high quality.

Science News Letter, February 21, 1942

LIBRARY SCIENCE

FILING RULES OF THE LIBRARY OF CONGRESS—L. E. Tomlinson—Pub. by Author, Baylor Univ., Waco, Texas, 37 p., \$1.

Science News Letter, February 21, 1942

PSYCHOLOGY

ABOUT TOM—Irma Weill—*Island Workshop Press*, 96 p., illus., \$1.75. A charming little book for all parents who want to better understand their children, written by a psychological social worker.

Science News Letter, February 21, 1942

PHYSICS

IMPACT RESISTANCE AND TENSILE PROPERTIES OF METALS AT SUBATMOSPHERIC TEMPERATURES—H. W. Gillett—*American Society for Testing Materials*, 112 p., \$2.50.

Science News Letter, February 21, 1942

BOTANY—HUMOR

WHAT KINDA CACTUS IZZAT?—Reg Manning—*Augustin*, 108 p., Cartoon illustrations by author, \$1.25. For those who have been to the Southwest, for those who expect to go to the cactus belt, or for those who have a ten-cent potted cactus, this book is a joy. It is also recommended for those who intensely dislike cactus.

Science News Letter, February 21, 1942

ZOOLOGY

A STUDY OF OXYMONAS MINOR ZELIFF FROM THE TERMITE KALOTERMES MINOR HAGEN—Joy Barnes Cross—*Univ. of Calif. Press*, 24 p., illus., 25c.

Science News Letter, February 21, 1942

EDUCATION

SCHOOL COURSES AND RELATED CAREERS, A Vocational Survey Plan—Otto

R. Bacher and George J. Berkowitz—*Science Research Associates*, 96 p., 90c. The first part of this book presents 18 lesson units for use by teachers in classroom study of occupations. The second part takes in turn 11 main school subjects and lists the specific occupations in which knowledge of this subject is accounted useful.

Science News Letter, February 21, 1942

HORTICULTURE

YOUR GARDEN IN THE CITY—Natalie Gomez—*Oxford Univ. Press*, 247 p., illus., \$3. Something unique in garden books. Most of the literature assumes plenty of space, and the favorable growing conditions of suburban or semi-rural areas. This book tells crowded-in town dwellers how to make the most of what they have.

Science News Letter, February 21, 1942

NATURAL HISTORY

SIERRA OUTPOST—Lila Lofberg and David Malcolmson—*Duell, Sloan and Pearce*, 253 p., \$2.50. The fascinating story of a human couple in an isolated mountain station, who made familiar friends of animals usually too persecuted by human beings to be so closely and confidently approached. There's a heart-breaking little story, though, about a lonesome pup who couldn't be permitted to fraternize with coyotes.

Science News Letter, February 21, 1942

ARCHAEOLOGY

CONTRIBUTIONS TO THE ARCHAEOLOGY OF THE ILLINOIS RIVER VALLEY—Frank C. Baker, James B. Griffin and others—*American Philosophical Soc.*, 209 p., 68 plates, \$3. Describes finds at a number of mound sites within recent years. Preparation of this report was undertaken by the late Dr. W. K. Moorehead in 1936, but when failing health interfered, he handed on the editorial task.

Science News Letter, February 21, 1942

ENGINEERING

PRACTICAL MARINE DIESEL ENGINEERING (3d ed.)—Louis R. Ford—*Simmons-Boardman*, 590 p., illus., \$5. "The third edition is limited to American Diesels and to the makes of engines most widely used in the types of vessels now being built. . . . Construction, operation and maintenance of marine Diesels is explained from the standpoint of the operating engineer. . . . The chapter on how to obtain a motor-ship license has been brought up to date."

Science News Letter, February 21, 1942

MILITARY SCIENCE

ARMIES ON WHEELS—S. L. A. Marshall—*Morrow*, 251 p., illus., \$2.50. A review of the campaigns of 1941, down to about the beginning of the winter, followed by discussion of general strategic and tactical principles involved. Although a strong believer in flying and mechanized forces, the author declines to follow either Mitchell or de Gaulle in belief in the omnipotence of any one arm; he stands for a well-balanced, thoroughly-coordinated force of all arms, with plenty of modernized infantry for holding missions.

Science News Letter, February 21, 1942

MINERALOGY—ENGINEERING

THE DEVELOPMENT OF MINERAL INDUSTRY EDUCATION IN THE UNITED STATES—Thomas Thornton Read—*American Institute of Mining and Metallurgical Engineers*, 298 p., \$2. A historical treatise that will have great interest for all students of mining, mineralogy and related subjects, as well as for specialists in education.

Science News Letter, February 21, 1942

HORTICULTURE

THE GARDENER'S THIRD YEAR, Trees, Vines and Shrubs—Alfred Bates—*Longmans, Green*, 310 p., \$2.50. There are plenty of books telling how to start a garden. Here is one telling how to keep it going, at that interesting period when gardens, like children, begin to be considerable of an extra care—and correspondingly more interesting.

Science News Letter, February 21, 1942

PHILOSOPHY

INTELLIGENCE, POWER AND PERSONALITY—George Crile; Grace Crile, ed.—*Whittlesey House*, 347 p., illus., \$3. The biological philosophizing of an eminent surgeon.

Science News Letter, February 21, 1942

PHILOSOPHY

THE DICTIONARY OF PHILOSOPHY—Dagobert D. Runes, ed.—*Philosophical Library, New York*, 339 p., \$6.

Science News Letter, February 21, 1942

RADIO

THE OBSERVER'S BOOK ON RADIO NAVIGATION—W. J. D. Allan—*Chemical Pub. Co.*, 106 p., diagrams, \$1.50. One of an excellent series of British handbooks on navigation, this text presupposes no previous knowledge of radio and presents the elements of the subject clearly.

Science News Letter, February 21, 1942

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PHOTOGRAPHY

PHOTOGRAPHY AND THE AMERICAN SCENE, A Social History, 1839-1889—Robert Taft—*Macmillan*, 546 p., illus., \$3.49. Suitably, this book begins with a portrait of that famous photographic pioneer, L. J. M. Daguerre. The development of photography in the United States, and the part that photography has played in American history and its effect on American social, artistic, literary and even political life, are traced. Illustrations, from old originals, are extremely interesting.

Science News Letter, February 21, 1942

PHOTOGRAPHY—ART

A MANUAL OF AIRBRUSH TECHNIQUE—J. Carroll Tobias—*American Photographic Pub. Co.*, 164 p., illus., \$3. Technique and uses of a tool useful in photographic retouching and coloring and in commercial art.

Science News Letter, February 21, 1942

PSYCHOLOGY

MODERN PSYCHOLOGY—Charles S. Myers, Frank N. Freeman, and Morris S. Viteles—*Univ. of Penn. Press*, 48 p., 50c. Three papers by well-known psychologists from the University of Pennsylvania Bicentennial Conference.

Science News Letter, February 21, 1942

EDUCATION

VISUAL AND TEACHING AIDS FOR HEALTH EDUCATION—Ethel M. Booth, comp., 14 mimeographed p., 25c; MUSIC, AUDIO-VISUAL AND TEACHING AIDS FOR USE IN THE JUNIOR AND SENIOR HIGH SCHOOL—Edward Frederick Burckart and Irene Louise Schuckle, comps., 10 mimeographed p., 25c.—*New Jersey State Teachers College*.

Science News Letter, February 21, 1942

HYDROBIOLOGY

A SYMPOSIUM ON HYDROBIOLOGY—James G. Needham and others—*Univ. of Wisconsin Press*, 405 p., illus., \$3.50. Papers presented at an important meeting held at the University of Wisconsin. A wide variety of research workers approach the subject from as wide a variety of viewpoints. Biologists and hydrographers alike should find much good meat between this volume's covers.

Science News Letter, February 21, 1942

MICROSCOPY

WORKING WITH THE MICROSCOPE—Julian D. Corrington—*Whittlesey House*, 418 p., illus., \$3.50. A well-planned reference book in microscopy and micro-

techniques, particularly as related to biology. It can be used to advantage in college laboratories, and is also well adapted to the requirements of the serious student who desires to develop his own skill.

Science News Letter, February 21, 1942

FICTION

RENDEZVOUS—Alec Hudson—*Macmillan*, 94 p., \$1.50. Three stirring stories of submarine warfare, by a writer who knows his subject.

Science News Letter, February 21, 1942

HYGIENE

COMMUNITY HYGIENE (3d ed.)—Dean Franklin Smiley and Adrian Gordon Gould—*Macmillan*, 448 p., illus., \$2.50. The authors have included in this edition of their text for college students new material on such topics as air-borne infection and its control, military hygiene and medical problems relating to civilian defense, the sulfa drugs, food deficiencies and "the expanding function of government in the health field."

Science News Letter, February 21, 1942

ENGINEERING

IT WORKS LIKE THIS—Burr Leyson—*Dutton*, 224 p., illus., \$2.50. Fourteen chapters, beginning with *The Automobile Engine*, proceeding through blast furnaces, radio, television, mechanical refrigeration etc. to the thermostat. Interesting reading for science club members—or their fathers.

Science News Letter, February 21, 1942

CHEMISTRY

GENERAL CHEMISTRY PROBLEMS—Edwin C. Markham and Sherman Smith—*Reynal & Hitchcock*, 240 p., \$1.25. A workbook designed to solve, in the form of assignments outside of class, the most troublesome problem connected with the general chemistry course in colleges; the teaching of chemical arithmetic. Loose-leaf, with ring binders.

Science News Letter, February 21, 1942

TECHNOLOGY

SHIPBUILDING TERMS, Especially Prepared for Shipbuilding Workers—Fred C. Williamson—*American Technical Society*, 64 p., diagrams, 50c. A practical handbook; besides definitions of terms, abbreviations of general ship terms and ship diagrams, a brief series of tests are given in the back of the book.

Science News Letter, February 21, 1942

POLITICAL SCIENCE

TOTAL ESPIONAGE—Curt Riess—*Putnam*, 318 p., \$2.75. A detailed account of the activities and organization of the German espionage system before and during the present war, written by an American newspaper correspondent. Interesting reading.

Science News Letter, February 21, 1942

ENGINEERING

REFUSE COLLECTION PRACTICE—Committee on Refuse Collection and Disposal—*American Public Works Assn.*, 659 p., illus., \$5. Invaluable for public works engineers, particularly in view of the rapid expansion of some of our towns and cities in the present emergency. Much of the research, over a period of several years, was made possible by grants from the Spelman Fund. Eight of the sixteen chapters of this work were issued individually in bulletin form and given wide distribution.

Science News Letter, February 21, 1942

PHYSICS

OPTICS AND SERVICE INSTRUMENTS—*Chemical Publishing Co.*, 218 p., illus., \$1.75. Reprinted from official British sources, this book explains in a very concise manner, the elementary principles of the science of optics. The human eye, instruments using prisms, and lenses of all kinds are described.

Science News Letter, February 21, 1942

RADIO

RADIO TROUBLESHOOTER'S HANDBOOK (Rev. and enl.)—Alfred A. Ghirardi—*Radio & Technical Publishing Co.*, 710 p., \$3.50. Companion volume to *Modern Radio Servicing*, and intended for use by radio service men in their daily work, in servicing all types of radio equipment.

Science News Letter, February 21, 1942

MATHEMATICS

ALGEBRAIC SOLID GEOMETRY, An Introduction—S. L. Green—*Cambridge (Macmillan)*, 132 p., \$1.75. A little text written by the senior lecturer in applied mathematics at Queen Mary College, University of London.

Science News Letter, February 21, 1942

GENERAL SCIENCE

REPORT ON THE PROGRESS AND CONDITION OF THE UNITED STATES NATIONAL MUSEUM FOR THE YEAR ENDED JUNE 30, 1941—Smithsonian Institution, U. S. National Museum—*Govt. Print. Off.*, 118 p., 20c.

Science News Letter, February 21, 1942