

• First Glances at New Books

Additional Reviews
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Evolution

MAN AND THE VERTEBRATES—Alfred S. Romer—*Univ. of Chicago Press*, 427 p., \$3. The author displays a most enviable mastery of all three of the major disciplines concerned in a correct understanding of evolution: phylogeny, ontogeny and comparative morphology; in this book he weaves them into a single coherent fabric with a skill that has been equalled very seldom (if indeed at all). He also takes advantage of the newest data, particularly the recent finds in human paleontology and the equally important recent revaluations of earlier discoveries. Add to that a wealth of well-chosen illustrations, and you have a book admirably fitted either for a university course on evolution or for the leisurely digestion of the solitary student.

Science News Letter, November 4, 1933

Biology

EVERYDAY PROBLEMS IN BIOLOGY—C. J. Pieper, W. L. Beauchamp and O. D. Frank—*Scott, Foresman*, xxxiii+686 p., \$1.60. A textbook for ninth- and tenth-grade pupils, approaching general biological principles through the medium of everyday events.

TEACHER'S GUIDEBOOK FOR EVERYDAY PROBLEMS IN BIOLOGY—C. J. Pieper, W. L. Beauchamp and O. D. Frank—*Scott, Foresman*, 46 p., free. Preprint of part 1 only available. To accompany the foregoing.

Science News Letter, November 4, 1933

Entomology

INSECTS AND DISEASE OF MAN—Carroll Fox—*Blakiston*, 349 p., \$4. A technical discussion which will not interest the layman but will be of great aid to physicians and health officers dealing with the diseases transmitted by insects.

Science News Letter, November 4, 1933

Mathematics

MATHEMATICAL FACTS AND PROCESSES PREREQUISITE TO THE STUDY OF THE CALCULUS—William Henry Fagrestrom—*Teachers College, Columbia University*, 68 p., \$1.50.

Science News Letter, November 4, 1933

Psychology-Education

FOURTH CONFERENCE ON RESEARCH IN CHILD DEVELOPMENT—Committee on Child Development—*National Research Council*, free. The report includes full papers of a group of experts

on child development as they were presented at the conference, and also the thought-provoking discussion which followed. The effects of modern conditions of the personality of young people were given special consideration.

Science News Letter, November 4, 1933

Archaeology

ARCHAEOLOGY AND THE BIBLE—George A. Barton—*American Sunday-School Union*, 598 p., 135 pl., \$3.50. Prof. Barton's thick book on archaeology of Bible lands is now entering its sixth edition, and is revised to include recent discoveries. Written to aid Bible students and teachers, the Biblical connection of archaeological material is stressed by numerous reference to verses and events. The second half of the volume is devoted to "translations of ancient documents which confirm or illuminate the Bible." The book is excellently arranged as a reference work, and covers the subject from every angle on which the student is likely to want information.

Science News Letter, November 4, 1933

Anthropology

THE GOLD TRIBE, "FISHSKIN TARTARS" OF THE LOWER SUNGARI—Owen Lattimore—*American Anthropological Association*, 77 p., 80c. The tribe described in this memoir of the American Anthropological Association belongs to North Manchuria and adjoining Siberia. Not many more than a hundred families exist today, and they are being rapidly and thoroughly obliterated, Mr. Lattimore tells us, by the advance of Chinese colonization.

Science News Letter, November 4, 1933

Aviation

COMPLETE MODEL AIRCRAFT MANUAL—Edwin T. Hamilton—*Harcourt, Brace*, 578 p., \$3.50. One of the most complete and elaborate books on its subject in existence; every detail of construction and finish is carefully described and illustrated.

Science News Letter, November 4, 1933

Religion

SOME FUNDAMENTALS OF A SCIENTIFIC SOCIAL ORDER—Prescott C. White—*International Press*, 31 p., 50c. The author contends that the advent of science is in reality the "Second Coming of the Christ."

Science News Letter, November 4, 1933

Social Psychology

INSTITUTIONAL BEHAVIOR—Floyd Henry Allport—*Univ. of North Carolina Press*, 526 p., \$3.50. In which the author condemns the practice, ancient and modern, of setting up institutions and then personifying them—attributing to them qualities that are human, if not divine. Although we are amused today by the old fiction that when twelve men meet for joint action, there is actually a thirteenth (the group mind) present, we may be equally confused today in personifying Capital, and Labor, and Government. In the foreword, the author says, "Although this book is not science, it is the view of one who tries to understand and share the task of scientists. It should be mentioned further that these essays are a by-product of a program of research upon which I have been steadily working."

Science News Letter, November 4, 1933

Highway Engineering

PROCEEDINGS OF THE TWELFTH ANNUAL MEETING OF THE HIGHWAY RESEARCH BOARD—Edited by Roy W. Crum—*National Research Council*, Part I, 412 p., Part II, 55 p., \$2.00. Part I contains the reports of research committees and the papers delivered at the 1932 meeting, while Part II is the report of the investigation by Fred Burggraf of the use of calcium chloride as a dust palliative.

Science News Letter, November 4, 1933

Radio

APPLICATIONS OF THE CATHODE RAY OSCILLOGRAPH IN RADIO RESEARCH—R. A. Watson Watt, J. F. Herd and L. H. Bainbridge-Bell—*His Majesty's Stationery Office*, 290 p., 10s. The authors, who are on the staff of Britain's Radio Research Station at Slough, are pioneers in the application of the cathode ray oscillograph to radio research. This volume explains in detail the technique underlying its use at the Radio Research Station.

Science News Letter, November 4, 1933

Biology

MEDICAL BIOLOGY—W. B. Sharp—*Author, Galveston*, 443 p., \$4.50. A workbook, with condensed text discussions, covering laboratory study in bacteriology, mycology, immunology and parasitology. Adequately illustrated.

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General Science

ANNUAL REPORT OF THE BOARD OF REGENTS OF THE SMITHSONIAN INSTITUTION 1932—*Govt. Print. Off.*, 497 p., 70c. Because of its general appendix, in which are published or reprinted more than a score of valuable summaries of current scientific progress, this annual report has provided an interesting and useful record of science year after year in addition to administrative reports. Despite its paper cover, evidently made necessary by economy, the present report maintains the standards of past years. Unfortunately, further economies in federal government allotment of funds promise to make impossible the publication of the Smithsonian Institution annual report next year, and there may be a break in this record of science which began before the Civil War.

Science News Letter, November 4, 1933

Engineering

PROCEDURE HANDBOOK OF ARC WELDING DESIGN AND PRACTICE—*Lincoln Electric Co.*, 434 p., \$1.50. Improvements in electric arc welding during the past few years have increased the rate of world production and allowed arc welding to give greater economies than ever before. This handbook presents basic information of use to the designing engineer.

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Forestry

EASTERN FOREST TREE DISEASES IN RELATION TO STAND IMPROVEMENT—George H. Hepting—*Govt. Print. Off.*, 28 p. Forestry Publication No. 2 of the new series designed for the present emergency conservation work. It tells briefly but clearly about the worst and commonest tree diseases and what to do about them. There are a number of good photographic illustrations.

Science News Letter, November 4, 1933

Standards

A. S. T. M. STANDARDS ON PETROLEUM PRODUCTS AND LUBRICANTS—*American Society for Testing Materials*, 292 p., \$1.25.

Science News Letter, November 4, 1933

Botany

LIVERWORTS OF NORTH AND CENTRAL FLORIDA—Herman Kurz and Thomas M. Little—*Florida State College for Women, Tallahassee*, 41 p., free. An excellently done regional

guide to a generally neglected subphylum of plants. The "keying out" is most carefully done, and is supported by scores of fine, clear line illustrations. This little brochure may well serve as an inspiration and a model to bryologists and hepatologists everywhere.

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Mathematics

SOME INFLUENCES OF THE REQUIREMENTS AND EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD ON MATHEMATICS IN SECONDARY SCHOOLS OF THE U. S.—Leslie Harper Whitcraft—*Teachers College, Columbia Univ.*, 115 p., \$1.50. This study considers the nature and extent of the influence of the requirements and annual examinations of the College Entrance Examination Board upon the mathematics of the secondary schools of the United States. The textbook, the course of study, the curriculum, the student, the administrator, the teacher and the examination each receive consideration.

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Sociology

INTRODUCTION TO THE VITAL STATISTICS OF THE UNITED STATES, 1900 TO 1930—Walter F. Willcox—*Govt. Print. Off.*, 138 p., 10c. Invaluable to anyone who is concerned in any way with the growth of America's population, this pamphlet summarizes by tables, graphs and text the essential U. S. vital statistics since the turn of the century.

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Mathematics

CONTINUOUS GROUPS OF TRANSFORMATIONS—Luther Pfahler Eisenhart—*Princeton Univ. Press*, 301 p., \$4. The Dod Professor of Mathematics in Princeton University sets forth the general theory of continuous groups of transformations, inaugurated by Lie and developed by his contemporaries. There is also included the results of recent investigations with the aid of the methods of the tensor calculus and concepts of the new differential geometry.

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Industrial Medicine

MEDICAL RELATIONS UNDER WORKMEN'S COMPENSATION—Bureau of Medical Economics, *American Medical Association*, 157 p., 75c. This report deals with the question of "the medical profession as a profession" in relation to the vexed subject of compensation. While it will be of interest to employers, employees, insurance companies and physicians, its chief message is for the physicians, especially the members of the local medical societies who are held to be primarily responsible for seeing that industrial medicine is practiced in accordance with the highest scientific and professional standards.

Science News Letter, November 4, 1933

Archaeology

EVIDENCE OF INDIAN OCCUPANCY IN ALBEMARLE COUNTY, VIRGINIA—David I. Bushnell—*Smithsonian Inst.*, 24 p., 11 pl. A resume of what is known of Indian history in one of Virginia's beautiful valleys, just east of the Blue Ridge. An archaeological survey of characteristic sites has been made, and the information on local Indian life and customs gained thereby is presented in the report. The plates show a large number of the artifacts and the characteristic landscape.

Science News Letter, November 4, 1933

Archaeology

PUEBLO MILLING STONES OF THE FLAGSTAFF REGION AND THEIR RELATION TO OTHERS IN THE SOUTHWEST—Katharine Bartlett—*Northern Arizona Society of Science and Art, Flagstaff*, 32 p., 60c. This "study in progressive efficiency," describes prehistoric and modern milling stones and shows the changes in this most important machine used in Pueblo households.

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Bibliography

BIBLIOGRAPHY OF TIME STUDY ENGINEERING OR TIME STUDY, MOTION STUDY, WAGE INCENTIVES AND FATIGUE IN INDUSTRY—Society of Industrial Engineers—*H. W. Wilson Co.*, 63 p., \$1.50.

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