

• First Glances at New Books

Religion

THE RELIGION OF SCIENTISTS—C. L. Drawbridge—*Macmillan*, 160 p., \$1.25. The secretary of the Christian Evidence Society sent to the members of the Royal Society a questionnaire applying the touchstone on six mooted points: spiritual domain, free will, evolution, personality of God, immortality and recent developments in scientific thought. In this book he analyzes the two hundred answers he received. Of the group answering, a very heavy majority are religious: on some of the questions believers outnumber non-believers more than twenty to one.

Science News Letter, June 18, 1932

Evolution

EFFECTIVENESS IN NATURE OF THE SO-CALLED PROTECTIVE ADAPTATIONS IN THE ANIMAL KINGDOM, CHIEFLY AS ILLUSTRATED BY THE FOOD HABITS OF NEARCTIC BIRDS—W. L. McAtee—*Smithsonian Institution*, 201 p., 75c. Evidently a good many of our notions regarding the "survival value" to animals of the so-called protective and warning colorations, mimicry, and even such seemingly solid defenses as spines and armor are in for a revision. The author has made a careful analysis of an unbelievable number of animals eaten by birds, and has learned that they that put their trust in armor find death no less easily than the weaponless weak.

Science News Letter, June 18, 1932

General Science

THE PROGRESS OF INDUSTRIAL RESEARCH—H. M. Tory—*National Research Council of Canada*—24 p., 10c. The President of the National Research Council of Canada summarizes the researches being developed in the new Canadian research laboratories just opened at Ottawa and compares them with the industrial research in other lands.

Science News Letter, June 18, 1932

Engineering

HYDRODYNAMICS—H. L. Dryden, F. D. Murnaghan, H. Bateman—*Natl. Res. Coun.*, 634 p., paper \$4.50, cloth \$5. As a report of the Committee on Hydrodynamics, Division of Physical Sciences of the Research Council, this volume is a valuable reference work for engineers concerned with aerodynamic and hydrodynamic problems. It supple-

ments the classic work of H. Lamb, which deals largely with the perfect fluid considered to have no friction, and presents additions to the knowledge of the behavior of viscous fluids, those whose friction is taken account of. Hundreds of papers published during the past 10 or 15 years are reviewed or referred to.

Science News Letter, June 18, 1932

Physiology

EXERCISE AND ITS PHYSIOLOGY—A. G. Gould and J. A. Dye—*Barnes*, 434 p., \$3. Recent rapid progress in knowledge of this subject has led the authors to compile in this book the many studies of both American and European investigators. The book has somewhat the style of a textbook, with a series of questions at the end of each chapter. In spite of being technical, the book seems to fill a long-felt need.

Science News Letter, June 18, 1932

General Science

EXPLORATIONS AND FIELD-WORK OF THE SMITHSONIAN INSTITUTION IN 1931, 190 p. Smithsonian Institution explorations range the world from Arizona and Alaska to South Africa and the Danube valley, seeking all things from changes in the sun to relics of ancient man. This volume reports the activities for a typical year.

Science News Letter, June 18, 1932

General Science

FOURTEENTH ANNUAL REPORT—National Research Council of Canada, 210 p., 25c. The National Research Council of Canada combines in some aspects the function of the National Research Council of the United States, the Bureau of Standards and some of the research activities of the United States Department of Agriculture. Its research achievements as summarized in this report will interest many who are working in similar fields in the United States.

Science News Letter, June 18, 1932

Physics

THERMIONIC VACUUM TUBES—E. V. Appleton—*Dutton*, 117 p., \$1.25. For the student of general physics who has not made a special study of radio frequency phenomena a leading British radio expert gives an account of the internal action of modern electron tubes and their applications in physics and electrical communication.

Science News Letter, June 18, 1932

Nutrition-Dietetics

FOODS IN HEALTH AND DISEASE—Lula G. Graves—*Macmillan*, 390 p., \$3.50. Here is a book on nutrition that is, surprisingly, different. The author not only tells the familiar facts about food composition and production and dietetic values, but takes up in some detail the less frequently discussed but not unimportant foods such as cheese and nuts, and the unfamiliar, "new" foods like broccoli, "cashew apples" and their seeds (they are really not nuts) and avocados.

Science News Letter, June 18, 1932

Public Health

TOWARDS NATIONAL HEALTH—J. Anthony Delmege—*Macmillan*, 234 p., \$6.50. Sir Thomas Legge has written the foreword to this book which describes the state of health and hygiene in England from Roman to Victorian times. The book is beautifully illustrated and interestingly written. Particular attention is given to discussion of occupational diseases and many readers may be surprised to learn how long ago some of these developed.

Science News Letter, June 18, 1932

Physics

PHYSICS FOR SECONDARY SCHOOLS—Oscar M. Stewart, Burton L. Cushing, Judson R. Towne—*Ginn*, 736 p., \$1.72. A text for high schools that aims to make the subject more interesting, understandable and at the same time treated in such a way that the requirements of the College Entrance Board and the New York State Syllabus will be met.

Science News Letter, June 18, 1932

Astronomy

THE OBSERVERS HANDBOOK FOR 1932—Edited by C. A. Chant—*Royal Astronomical Society of Canada*, 80 p., 25c. This handbook, prepared principally for use in Canada, is an interesting addition to the reference shelf during this year.

Science News Letter, June 18, 1932

Engineering

INDEX TO PROCEEDINGS, Vols. 26-30, 1926-1930—*American Society for Testing Materials*, 251 p., cloth, \$2.50, half leather, \$3.50. A necessary part of any set of the valuable proceedings of this engineering society.

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Biology

RIDDLES OF SCIENCE—J. Arthur Thomson—*Liveright*, 387 p. \$3.50. The most level-headed and best-informed of English scientists who can write in popular style takes up questions which used to be thought of as verging on the preternatural, like suspended animation, crystal-gazing, the cat's nine lives, and offers sound, common-sense answers. A considerable section of the book is taken up with the inexhaustible subject of evolution, its mode, its direction, and whether there is a purpose behind it. Those who know the author's other works will buy this one: a Thomson book needs no blurb.

Science News Letter, June 18, 1932

Child Study

BEHAVIOUR ASPECTS OF CHILD CONDUCT—Esther Loring Richards—*Macmillan*, 299 p., \$2.50. Her position in the dispensary of the Henry Phipps Psychiatric Clinic of the Johns Hopkins University Hospital has given the author personal contact with a wide variety of childhood problems and a practical viewpoint which she has incorporated in this series of lectures now brought together in book form.

Science News Letter, June 18, 1932

Electricity-Physics

ADVANCED ELECTRICAL MEASUREMENTS—William R. Smythe, Walter C. Michels—*Van Nostrand*, 240 p., \$3. The material of this book has been used in teaching a course in advanced electrical measurements given to senior students in electrical engineering, physics and chemistry at the California Institute of Technology.

Science News Letter, June 18, 1932

Aeronautics

AIRPLANE CONSTRUCTION AND REPAIR—John E. Younger—*McGraw-Hill*, 433 p., \$3. A text which will undoubtedly prove useful in the training of airplane mechanics upon whom to a large degree the safety of our airlines depends.

Science News Letter, June 18, 1932

Chemistry

ALLEN'S COMMERCIAL ORGANIC ANALYSIS, Vol. IX—Edited by C. Ainsworth Mitchell—*Blakiston's*, 617 p., \$7.50. This volume of the fifth edition covers the proteins of plants, proteins of milk, milk, milk products, meat and meat products. The contributors are,

besides the editor: C. Jordan Lloyd, G. D. Elsdon, H. Leffmann and John Golding, E. R. Bolton, and C. Robert Moulton. The book gives in some detail properties, analytic methods, detection and estimation of impurities, adulterations and decomposition products of the subjects discussed.

Science News Letter, June 18, 1932

Child Health

NUTRITION—White House Conference Publication—*Century*, 532 p., \$4. Some of the leading pediatricians and food chemists of the country have contributed to this volume which is one of the most meaty of the White House Conference reports so far published. It contains a wealth of sound information, discusses the leading theories of child nutrition, and should be of real value to practicing physicians throughout the country who are trying to prescribe for their little charges diets that are practical and scientifically sound.

Science News Letter, June 18, 1932

Archaeology

REDISCOVERING ILLINOIS—Arthur R. Kelly and Fay-Cooper Cole—*State of Illinois*, 23 p. This publication appears only as a chapter buried in a mass of statistics and political biographies making up the Illinois Blue Book for 1932; but it is worth consulting as a concise account of some of the outstanding recent results of the newly energized program of archaeological research in a state that has many important sites still to be explored.

Science News Letter, June 18, 1932

Child Health

BODY MECHANICS—White House Conference Publication—*Century*, 166 p., \$1.50. The conference's sub-committee on orthopedics and body mechanics presents its findings with regard to posture and other features of body mechanics of American children, sets up standards and makes recommendations for bringing the children up to the standards. Physical educators and parents will be especially interested.

Science News Letter, June 18, 1932

Botany

A TEXTBOOK OF BOTANY FOR COLLEGE STUDENTS—D. M. Mottier—*Blakiston's*, 601 p. \$4. A revision and amplification of an earlier book. The approach is made first through plant physiology, then morphology-systematics, finally ecology; an arrangement that has much to recommend it.

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Bibliography

ALUMNI READING LISTS—Extension Service, Library—*Univ. of Michigan*, 155 p., \$1. More than one hundred and fifty reading lists each prepared by a specialist in his field, are assembled in logical order and published here in book form, as part of the program of the Bureau of Alumni Relations of the University of Michigan. Taken as a whole, any one of these lists may be considered a fairly comprehensive course of reading on the subject under consideration.

Science News Letter, June 18, 1932

Biology

ANIMAL BIOLOGY—L. L. Woodruff—*Macmillan*, 513 p. \$3.50. An adaptation of the author's "Foundations of Biology," omitting chapters dealing with plants and thus making room for special treatment of representative forms from each of the chief phyla, many new illustrations, and other material, especially relating to man.

Science News Letter, June 18, 1932

Ornithology

THE BIRDS OF LOUISIANA—Compiled by S. C. Arthur—*Louisiana State Department of Conservation*. 598 p. 25 c. Few states have the varied wealth of bird life that Louisiana can boast, so that it is especially gratifying to see this bulletin appear, putting facts about them within reach and understanding of the lay enthusiast.

Science News Letter, June 18, 1932

Chemistry

PRODUCTION AND TRANSPORTATION COSTS OF CERTAIN OILS—U. S. Tariff Commission—*Govt. Print. Off.*, 240 p., 20c. Chemists and others interested in vegetable and animal oils will find this report of permanent value for reference purposes.

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