

shallower-rooted introduced grasses. The latter pay bigger profits when there is plenty of rain, but their failure imposes correspondingly bigger penalties when the rains fail.

Even trees fall in line with the lowlier plants, in this business of deep rooting in regions subject to recurring droughts. Botanists at the University of Nebraska not long ago dug down among the roots of bur-oak trees, those tough pioneers that march out into the prairies where no oak else will venture. They found that every tree was virtually two trees: the tree of branches above ground matched by a tree of roots below.

*Science News Letter, July 11, 1936*

## PUBLIC HEALTH

## Cities Watch Seattle Meat Grading Experiment

SEATTLE'S experiment in requiring meat to be graded, watched by cities throughout the country, is giving the public better beef with no advance in price. So the American Home Economics Association, meeting in Seattle, was told by Dr. F. E. Smith of the Seattle Department of Health and Sanitation.

Seattle is the first city in the United States to make the grading of beef, mutton, and lamb compulsory, Dr. Smith stated. The system, now in use a year and a half, was developed by the U. S. Bureau of Agricultural Economics with the idea of marking meat in a common language understood by both buyer and seller.

Describing the meat grading system as "a service rendered to consumers, which protects them against fraud and misrepresentation," Dr. Smith said that opposition to the system continues "stubborn and persistent."

"From the standpoint of the national packer, grading is opposed," he said, "because it interferes with promotion of his own brands. Opposition developed by the retailer comes principally from the dealers who handle beef, mutton, or lamb of the medium grade or lower."

*Science News Letter, July 11, 1936*

## ● RADIO

July 14, 2:15 p.m., E.S.T.

UNPOPULAR WEATHER—J. B. Kincer of the United States Weather Bureau.

July 21, 2:15 p.m., E.S.T.

SOMETHING NEW IN COTTON—R. W. Webb, Senior Cotton Technologist, U. S. Bureau of Agricultural Economics.

In the Science Service series of radio discussions led by Watson Davis, Director, over the Columbia Broadcasting System.

## ● First Glances at New Books Additional Reviews On Page 32

## Exploration

ARCTIC ADVENTURE: MY LIFE IN THE FROZEN NORTH—Peter Freuchen—*Farrar and Rinehart*, 467 p., 112 illus., \$3.50. "If the Arctic is at all appealing to a person, it exercises a spell over him," writes this man who has certainly seen the North at its best and worst. Some of this spell he manages to cast on the reader, for the book is of the type "hard to lay down." Particularly memorable is the story of Freuchen singing for his life to scare off wolves every time he left his Greenland cabin, where he was taking weather observations. His married life with an Eskimo woman and his experiences with famous explorers stress the human touches of life in a strange world.

*Science News Letter, July 11, 1936*

## Anthropology

YALE UNIVERSITY PUBLICATIONS IN ANTHROPOLOGY, Numbers one to seven—Clark Wissler and others—*Yale*, 23 p., \$2. The seven papers report on sorcery in Polynesia, Navaho warfare, Hopi hunting and its ritual, population changes among northern Plains tribes, cultural relations of Gila River and Lower Colorado tribes, distribution of northern Athabaskan Indians, and economy of a modern Teton Dakota community.

*Science News Letter, July 11, 1936*

## Education

HANDBOOK OF ADULT EDUCATION IN THE UNITED STATES, 1936—Dorothy Rowden—*American Association for Adult Education*, 423 p., \$1.75 to members of the Association, \$2.25 to others. More than 30 writers have contributed new material to this 1936 edition.

*Science News Letter, July 11, 1936*

## Immunology

IMMUNOLOGY—Noble P. Sherwood—*Mosby Co.*, 608 p., \$6. A technical book for medical students and others whose training in bacteriology and related sciences will enable them to understand the subjects discussed.

*Science News Letter, July 11, 1936*

## Bible History

THE BIBLE AND THE HISTORICAL DESIGN—Mabel A. Dominick—*Printed by Plimpton Press, Norwood, Mass.*, 288 p., \$2.85. A book for reference and study use rather than general reading. The plan of the book is to show the relationship of Bible narrative to its his-

toric setting, and this is carried out by systematic presentation of facts and points, often in outline system. The "individual worth" of chief Bible characters is also evaluated by the author's summarizing method.

*Science News Letter, July 11, 1936*

## Child Study

THE BABY AND THE GROWING CHILD—Louis Fischer—*Funk & Wagnalls*, 260 p., \$1.50. This book gives detailed instructions on feeding and otherwise caring for infants and young children, including measures for dealing with various emergencies before a physician arrives and useful information about various diseases of children.

*Science News Letter, July 11, 1936*

## Geography

HAMMOND'S PICTORIAL ATLAS OF THE WORLD—*Hammond*, 160 p., \$1. A handy-sized reference book, up-to-date to the inclusion of Boulder Dam reservoir and the dam that changed Holland's Zuider Zee into a fresh water lake. The maps are detailed enough to be very serviceable, and the short descriptive accounts of the various countries with illustrations are a good feature.

*Science News Letter, July 11, 1936*

## Hygiene

SEX HABITS—A. Buschke and F. Jacobsohn—*Emerson Books*, 204 p., \$2.50. Besides a clear presentation of the anatomy and functioning of the sex organs and a discussion of sex hygiene, this book includes a chapter on abnormalities of sexual life, one on prophylaxis against venereal disease, and several chapters on heredity, eugenics and racial hygiene.

*Science News Letter, July 11, 1936*

## THE IDENTITY THEORY

By Blamey Stevens

Dear Scientist:

If you are perfectly satisfied that nothing can shake your confidence in the Relativity and Quantum Theories it will be a waste of your time to read "The Identity Theory." The book is only intended for physical scientists who can be convinced by reasonable arguments that they have been using makeshift theories all their lives.

8vo. 248 pages, cloth bound. Price \$2.00 post paid. Sixteen page summary free on application

Published by Sherratt & Hughes, Manchester, England. Also on order from the author at 438 W. 116th St. New York City

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Additional Reviews  
On Page 31

## Pronunciation

WHAT'S THE NAME, PLEASE?—Charles Earle Funk—*Funk & Wagnalls*, 176 p., \$1. Have you ever wondered how to pronounce the names of Father Coughlin, Paul de Kruif, the Dionne quintuplets, Ales Hrdlicka, Emil E. Hurja, Harold L. Ickes, Sir James H. Jeans, or Fiorello H. La Guardia? Here is a life-saver for those who must use the names of prominent persons in public speech.

*Science News Letter, July 11, 1936*

## Industrial Hygiene

HEALTH AND HUMAN PROGRESS—René Sand—Translated by C. F. Marshall—*Macmillan*, 278 p., \$3. Unfortunately, this excellent book will probably appeal chiefly to professional workers in public health and sociology because although not technical it takes up mainly factors influencing the health of industrial workers. It should be read by a far wider group, however, because the health of one class cannot fail to affect the health of the entire population to some extent. The book is particularly worth reading in this day when social problems are so much under discussion.

*Science News Letter, July 11, 1936*

## Sociology

WORLD IMMIGRATION—Maurice R. Davie—*Macmillan*, 588 p., \$3.75. Immigration is generally between continents rather than between nations, Europe and Asia ordinarily providing the source of such movements with the other parts of the world receiving the floods or the trickles of human migration. This is a world-wide problem affecting every nation profoundly. It is here discussed from the point of view of those in the United States.

*Science News Letter, July 11, 1936*

## Pharmacy

THE PHARMACOPOEIA OF THE UNITED STATES OF AMERICA; 11th Decennial Revision—U. S. Pharmacopoeial Convention—*Mack Printing Co.*, 676 p., \$5.

*Science News Letter, July 11, 1936*

## Medicine

PRINCIPLES AND FOIBLES OF CANCER RESEARCH IN REGARD TO ETIOLOGY AND NATURE—William Rienhoff, Sr., *Waverly Press*, 200 p., \$2.50. A book for physicians, not laymen, in which the author reviews the many theories and

facts about cancer, points out the weaknesses and danger spots in certain lines of reasoning about this problem, and concludes with a résumé of what he considers salient facts and fruitful lines for further investigation.

*Science News Letter, July 11, 1936*

## Botany

PLANT WELFARE—Victor H. Ries—*Doubleday, Doran*, 96 p., \$1. The home gardener, harassed by insects and fungi all bent on murdering his pet ornaments, will find much solace in this small book. It tells and pictures what the pests are and how to combat them, states what is in the most commonly used trade-name insecticides, lists up garden herbs, shrubs, and trees alphabetically, giving with each the principal ills its flesh is heir to and what to do about them.

*Science News Letter, July 11, 1936*

## Chemistry

ANNUAL REVIEW OF BIOCHEMISTRY, Volume V., 1936—Ed. by James Murray Luck—*Annual Review of Biochemistry, Ltd.*, 640 p., \$5. Continuing the editorial policy successfully pursued in this significant series, there are presented here close-packed summary chapters on biological oxidations and reductions, enzymes, X-ray studies, the chemistry of various biologically important compounds, metabolism, pigments, microorganisms, etc. Extensive literature reference lists accompany each chapter.

*Science News Letter, July 11, 1936*

## Physiology

ELEMENTARY HUMAN PHYSIOLOGY—Sherburne F. Cook—*Harper*, 539 p., \$3.50.

LABORATORY MANUAL IN ELEMENTARY HUMAN PHYSIOLOGY—Sherburne F. Cook and Mary-Alice Burmester—*Harper*, 76 p., 50c. A new text for use in college classes; not for general lay reading.

*Science News Letter, July 11, 1936*

## Pharmacy

THE NATIONAL FORMULARY; 6th Ed.—American Pharmaceutical Association—*Mack Printing Co.*, 556 p., \$5.

*Science News Letter, July 11, 1936*

## Astronomy

ASTRONOMY FOR THE LAYMAN—Frank Reh—*Appleton-Century*, 308 p., \$3. A book for the lay star-lover, well illustrated with halftones and diagrams of individual constellations, the text is liberally interspersed with quotations from star-poetry from all ages.

*Science News Letter, July 11, 1936*

## Chemistry

THE ROMANCE OF CHEMISTRY; 2nd ed., Rev.—William Foster—*Appleton-Century*, 497 p., \$3. A new edition of a successful popular book about chemistry, its importance in the world, and its significance as an element in our cultural life.

*Science News Letter, July 11, 1936*

## Eugenics

LAWS OF LIFE—Halliday Sutherland—*Sheed & Ward*, 270 p., \$2.50. This book takes up marriage, birth control, heredity, alcohol, the Malthusian doctrine and similar related topics, concluding with a chapter on euthanasia. The author argues against euthanasia, sterilization of the unfit, and birth control by any but the "rhythmic" method.

*Science News Letter, July 11, 1936*

## Pedology

PEDOLOGY—Jacob S. Joffe—*Rutgers University Press*, 575 p., \$5.25. This is distinctly a book for the serious student, not for the amateur. It contains, as probably no other single volume in English does, a comprehensive study of soils, their origins, character, types, and uses. Particularly impressive to a relative stranger to this special discipline is the Russian contribution, both as recorded in bibliography titles (there are hundreds of them) and as embedded in the technical terminology.

*Science News Letter, July 11, 1936*

## Botany

THE IRISES OF SOUTHEASTERN LOUISIANA—Percy Viosca, Jr.—*Southern Biological Supply Company*, 56 p., 50c. A brief floristic and ecological discussion of a region very important for the genus *Iris*, by one who knows it thoroughly.

*Science News Letter, July 11, 1936*

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