

• First Glances at New Books

Aeronautics

THE STORY OF AIRCRAFT—Chelsea Fraser—*Crowell*, 510 p., \$2.50. Primarily a boy's book written in popular style with two parts, one devoted to lighter than air and the other to heavier than air flight.

Science News Letter, October 21, 1933

Agriculture

FROM PEASANT TO COLLECTIVE FARMER—N. Buchwald and R. Bishop—*International Publishers, New York*, 102 p., 75c. A vivid description of the agrarian transition in the U. S. S. R., as seen through the friendly eyes of two correspondents at the First Congress of Collective Farm Shock-Brigade Workers in Moscow.

Science News Letter, October 21, 1933

Archaeology

THE GREAT CHALICE OF ANTIOCH—Gustavus A. Eisen—*Fahim Kouchakji, New York*, 22 p., \$1.50. Since the Chalice of Antioch visited the Chicago fair, it has doubtless become a familiar name to more people than ever before. Hence, the timeliness of this popular account in a slim quarto volume, beautifully illustrated with photographs and etchings showing the figures of Christ and the Apostles. Dr. Eisen argues effectively that the chalice dates from the first century A.D., which if correct gives the portraits great religious and historic significance. The opposing view has been that the chalice was not made until some centuries later. But Dr. T. A. Olmstead in an introduction says that the first century date is now supported, almost without exception, by those most competent to judge.

Science News Letter, October 21, 1933

Archaeology

OUT OF THE PAST OF GREECE AND ROME—Michael I. Rostovtzeff—*Yale Univ. Press*, 129 p., \$2. Written primarily for older boys and girls, this very informative account would seem likely to appeal more strongly to adult readers. It contains descriptions of Greek colonies along the Black Sea, the eruption of Vesuvius, the Olympic games, the caravan cities of Petra and Palmyra, and other scenes of the past which are less well known than the oft-described life in Rome and Athens. A number of interesting drawings illustrate the book.

Science News Letter, October 21, 1933

Astronomy

ASTRONOMY FROM A DIPPER—Eliot C. Clarke—*Houghton Mifflin*, 72 p., \$1.25. The new edition of a little book that uses the Dipper as a visual stepping stone to other constellations.

Science News Letter, October 21, 1933

Astronomy—Biography

AN ASTRONOMER'S LIFE—Edwin Brant Frost—*Houghton Mifflin*, 300 p., \$3.50. The autobiography and personal reminiscences of one of America's most distinguished astronomers, who is now Director Emeritus of the Yerkes Observatory. The world at large would have a better realization of the humanness of scientific men if more of them would follow Dr. Frost's example and place their scientific achievements in an autobiographical setting.

Science News Letter, October 21, 1933

Biography

MARX, FREUD AND EINSTEIN—Solomon B. Freehof—*Argus Book Shop*, 47 p., 50c. Brief essays upon "three who have changed the mind of the world."

Science News Letter, October 21, 1933

Biology

ANIMAL BIOLOGY—Robert H. Wolcott—*McGraw-Hill*, 615 p., \$3.50. A soundly-planned, well-written, cleanly-illustrated textbook, dedicated to a "platform" which includes as its final and culminating plank the belief that "every problem concerned with living is essentially a biological problem and capable of analysis and solution by the application of biological principles."

Science News Letter, October 21, 1933

Biology

SEX IN THE PLANT WORLD—Wilfred W. Robbins and Helen Monosmith Pearson—*Appleton-Century*, 193 p., \$2. Sex in the animal world has long been familiar enough; though some of us are surprised a little when we learn of its curious manifestations among some of the lower animals. But sex among plants is a phenomenon more recently known even to biologists, and its manifestations may seem even stranger to one "reading up" on the matter for the first time. It is therefore a distinct advantage to have a good, clearly written, clearly illustrated popular book devoted entirely to this one subject, tracing sex-

ual reproduction all the way from the lowliest fungi to the most highly specialized orchids. The book is the latest addition to the Appleton New World of Science Series, edited by Watson Davis.

Science News Letter, October 21, 1933

Chemistry

SOME PHYSICAL PROPERTIES OF THE COVALENT LINK IN CHEMISTRY—Nevil Vincent Sidgwick—*Cornell Univ. Press*, 249 p., \$2. Based upon the lectures that Dr. Sidgwick gave at Cornell in 1931 as the George Fisher Baker Non-Resident Lecturer in Chemistry, this book sets forth the methods of measurement of some of the more important properties of non-ionized links and discusses results. After an introductory chapter on the relation of physics to chemistry, there are the following chapters: atomic cohesion, electrovalence and covalence, dimensions of covalent links, heats of formation of covalent links, electrical dipole moments, and stereochemistry.

Science News Letter, October 21, 1933

Chemistry—Engineering

CHEMICAL ECONOMICS — Williams Haynes—*Van Nostrand*, 310 p., \$3.25. The publisher of "Chemical Markets" and "Plastic Products" sets forth the economic principles that underlie the making and selling of chemicals. The influence of chemicals in the development of modern industrialism is also covered in the two parts of the volume, the first of which is devoted to economic foundations and the second of which is devoted to historical background. Of great (Turn to Page 269)

▼ **MOSSES**

an address by

Dr. A. J. Grout

prominent investigator of
and writer about mosses

To be given Friday, Oct. 27, at 3:00 p. m. Eastern Standard Time over stations of the Columbia Broadcasting System. Each week a prominent scientist speaks over the Columbia System under the auspices of Science Service.

First Glances At New Books

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value to the historian of science are the comments upon the personalities, past and present, involved in America's great chemical industries.

Science News Letter, October 21, 1933

Economics

A HANDBOOK OF NRA: LAWS, REGULATIONS, CODES—*Federal Codes*, 413 p., \$4.50. Complete and unabridged with supplementary service to December 31, 1933.

Science News Letter, October 21, 1933

Economics

THE NATIONAL RECOVERY PROGRAM—James D. Magee, Willard E. Atkins and Emanuel Stein—*Crofts*, 80 p., 50c. Clean-cut, objective discussion of the National Industrial Recovery Act, the farm program, and the new efforts in the fields of banking and finance, which should prove invaluable to students of economics, whether college undergraduates or at large in the world and "reading up for themselves."

Science News Letter, October 21, 1933

Education

A PRIMER OF THE NEW DEAL—E. E. Lewis—*American Education Press*, 63 p., 25c.

Science News Letter, October 21, 1933

Economics—Agriculture

WORLD RESOURCES AND INDUSTRIES—Eric W. Zimmermann—*Harper*, 842 p., \$5. The professor of economics at the University of North Carolina appraises the agricultural and industrial resources of the world. Replete with illustrations and tabulations, detailed consideration is given to the great agricultural crops and the great industrial natural resources. He also discusses the natural environment in relation to man and his wants, and he peers into the complex future of international relationships.

Science News Letter, October 21, 1933

Education

THE EFFECT OF CERTAIN FACTORS IN THE VERBAL ARITHMETIC PROBLEM UPON CHILDREN'S SUCCESS IN THE SOLUTION—Grace A. Kramer—*Johns Hopkins Press*, 106 p., \$1.75. Number 20 of the Johns Hopkins University

Studies in Education. It contains a supplementary investigation into children's expressed interest in problems. They prefer the money problem that deals with the purchase of a bike, the time problem that describes a foot race, and measuring problems concerned with the making of such things as dog houses.

Science News Letter, October 21, 1933

Education

PARENTS, CHILDREN, AND MONEY—Sidonie M. Gruenberg and Benjamin C. Gruenberg—*Viking*, 219 p., \$1.75. Helpful suggestions for handling that perplexing problem faced alike by those with much money and those with little.

Science News Letter, October 21, 1933

Education—Psychology

LEADERSHIP AMONG HIGH SCHOOL PUPILS—Marion Brown—*Teachers College, Columbia Univ.*, 166 p., \$1.75. Based upon 259 case studies. Consideration is given to the characteristics of leaders in school and the ways by which they attain leadership. The implications for educators form the final chapter.

Science News Letter, October 21, 1933

Education—Psychology

PSYCHOLOGY AND THE NEW EDUCATION—S. L. Pressey—*Harper*, 594 p., \$2.75. A practical book for the use of teachers and students of education. It aims, as the author says, to "inform the reader not about instincts and reflexes, but about children." And the discussion is not limited to the purely intellectual aspects; growth, adenoids, malnutrition, play, the home, and many other considerations of importance in the true education of children are given the consideration they deserve.

Science News Letter, October 21, 1933

Endocrinology

THE GROWTH AND GONAD-STIMULATING HORMONES OF THE ANTERIOR HYPOPHYSIS—Herbert M. Evans, Karl Meyer and Miriam E. Simpson in collaboration with Alexander J. Szarka, Richard I. Pencharz, Robert E. Cornish and Frederick L. Reichert—*Univ. of Calif. Press*, 446 p., \$10. Here is a monumental work on a subject that is particularly to the fore these days, the hypophysis or pituitary gland. It is,

AIRWAYS of AMERICA

GUIDE BOOK NO. 1

By A. K. LOBECK, Professor of Geology in Columbia University

A new type of travel guide, as interesting to people reading in the stillness of their homes as to those actually flying. It describes the country passed over in an air journey from New York to San Francisco by United Air Lines. Physiography, geology, agriculture, vegetation and climate are treated. Richly illustrated with photographs, route maps and diagrams. Delivered, \$2.50. Copies sent on approval or C.O.D. if requested.

The Geographical Press
Columbia University, New York

A distinguished biologist
states his convictions

THE UNIVERSE AND LIFE

By H. S. JENNINGS

"A strikingly sincere, frank, and logically thought out presentation. . . . He takes up every point necessary to the complete exposition of his subject, makes it lucid and simple and links it closely with what has gone before. When he gets through he has neither 'popularized,' emasculated, nor cheapened his account of a biologist's outlook on the world, his conception of the nature of the universe, his attitude toward life. He has presented it with scientific accuracy and simple dignity." *New York Times*.

\$1.50

YALE UNIVERSITY PRESS
New Haven Connecticut

Human Biology

A RECORD OF RESEARCH

Edited by RAYMOND PEARL

HUMAN BIOLOGY was established as a medium for the publication of the results of original research in all fields of the biology of man, including physical and general anthropology, anthropometry, human anatomy, vital statistics, demography, human heredity and eugenics, prehistory and the evolution of man, constitutional pathology, sociology, and psychobiology. No other existing journal brings together the literature of these separate disciplines.

Volume V is in progress. Subscriptions, \$5.00 (foreign postage 35c additional; Canadian, 13c). Back volumes are available at \$6.00 each.

THE JOHNS HOPKINS PRESS
BALTIMORE

Advertisers and the publisher will appreciate mention of SCIENCE NEWS LETTER in replies to advertisements.

however, a scientific treatise, too technical for the layman, even though he be greatly interested in the new knowledge of this important gland that is responsible for such strange conditions as dwarfism and giantism.

Science News Letter, October 21, 1933

Physics—Engineering

THE REDUCTION OF NOISE IN BUILDINGS: RECOMMENDATIONS TO ARCHITECTS—Hope Bagenal and P. W. Barnett—*His Majesty's Stationery Office*, 29 p., 9d. This bulletin considers how noise and disturbance due to transmitted sound will be minimized in buildings. Of practical value is a compilation of types of construction with the sound reductions that they cause.

Science News Letter, October 21, 1933

Engineering—Economics

THE POWER AGE—Walter N. Polakov—*Covici Friede*, 247 p., \$2. We have outgrown the technique of the machine age, the author argues. A new production technique, power production, characterizes the new power age. The power age does not have bigger and better machines than those of the machine age but it is characterized "by a different kind of machine, conditioning a different kind of production, which results in a different kind of economy and a different kind of social relations." This book is a highly pertinent contribution to the discussion of the relationship between science and man which has been intensified by present economic conditions.

Science News Letter, October 21, 1933

General Science

OFFICIAL CATALOG OF EXHIBITS IN THE DIVISION OF THE BASIC SCIENCES—*Century of Progress*, 144 p., 15c. As a written and pictorial record of the



Cornelia Clarke Photo

LOWLIEST LIFE RIDES THE AIR

Almost any log you step over, during an autumnal woodland ramble, can show, on some bit of its bark, a colony of tiny stalked globes. Through your hand lens they will look like tiny balloons about to take off on an elfin Gordon Bennett race. But they are only the spore-cases of one species of Mycetozoa, or slime-molds, called Myxomycetes by earlier biologists. They represent the fruiting stage of one of the lowest forms of life—a creature so humble that it can not with certainty be called either animal or plant. The little globes do not float off through the air, but the millions of dust-like spores within them do, and the very few of them that fall on a favorable substrate renew the life cycle next year.

scientific sights that millions saw in the Hall of Science at the Century of Progress, this catalog performs a useful service.

Science News Letter, October 21, 1933

General Science

THE LIMITATIONS OF SCIENCE—J. W. N. Sullivan—*Viking Press*, 307 p., \$2.75. A readable discussion of the fundamentals of science as they have been modified by increasing knowledge, presented with historical perspective, philosophical feeling and an eye cocked toward the future. For those who enjoy Eddington, Jeans, Whitehead, Russell, et al.

Science News Letter, October 21, 1933

Geography

NORTHERN LIGHTS—F. Spencer Chapman—*Oxford Univ. Press*, 304 p., \$5. This official account of the British Arctic air-route expedition is a creditable addition to the epics of explorations in the Polar regions. It will be remembered that the leader of this expedition was Henry George Watkins who, on a second and supplementary expedition, had his career cut short tragically at the age of twenty-five.

Science News Letter, October 21, 1933

Geography—Exploration

THE EMPTY QUARTER—H. St. J. B. Philby—*Holt*, 432 p., 32 illus., \$4. A ninety-day journey through the famous Empty Quarter of Arabia, a land so little known that in 1930 His Majesty King 'Ali spoke of it as an innermost recess of his empire that he desired to see explored. Mr. Philby works hard at his job, and so along with the running narrative of adventure there is explanation of what this Empty Quarter contains. Ancient ruins, apparently, it does not contain. The legendary wicked city of Wabar destroyed by fire from heaven proves to be a volcano. Nomads have been almost the only inhabitants of the dry region. But the singing sands, meteorites, freshwater shells, animal and plant life, show that the Empty Quarter is far from being barren of scientific interest.

Science News Letter, October 21, 1933

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Histology

THE HISTORY OF STAINING—H. J. Conn—*Book Service of the Biological Stain Commission, Geneva, N. Y.*, 141 p., \$2. The history of biology from the middle of the nineteenth century until very recent years might almost be said to be a history of biological staining, for during that period occurred the great forward leaps of those phases of our knowledge of plant and animal structure that depend on making invisible things visible by giving them color. Present-day laboratory technique inherits the riches accumulated for it during this period, but often knows little of the men to whom it is indebted. This small book remedies that lack, and by adding to the *what* and *how*, which we already know, the background of the historical *why*, it helps to lay the foundation of still further progress.

Science News Letter, October 21, 1933

History—Folklore

THE ALEXANDER BOOK IN ETHIOPIA—Translated by Sir Ernest A. Wallis Budge—*Oxford Univ. Press*, 277 p., 13 pl., \$2.50. The Ethiopian version of the life of Alexander the Great is given in a series of manuscripts in the British Museum and the National Library in Paris. Some years ago the author of this book translated these texts for limited scholarly use, but now he has prepared a compact edition for more general reading by the public. The translation preserves the Oriental literary flavor of the texts, which are said to have come from the Arabic. The pictures are from the Persian version of Alexander's life, which is illustrated as other Eastern versions are not.

Science News Letter, October 21, 1933

History—Sociology

THE DAWN OF CONSCIENCE—James H. Breasted—*Scribner's*, 431 p., 19 illus., \$3. The discovery of human character as something precious and fine is traced to the Egyptians, presumably no earlier than the twenty-seventh century B.C. So, Dr. Breasted tells us, the foundations of real civilization are still so new "that we need feel no discouragement if the building has not yet exhibited the stability we may yet hope to see it achieve." Written as only Dr. Breasted can write of Egypt, this book tells of the pioneer efforts of the Egyptians to establish a moral order, of their ideas of social justice, and social idealism, following which he traces the sources of our moral heritage.

Science News Letter, October 21, 1933

Invention

CAN IT BE DONE?—Ray Gross—*Simon and Schuster*, 136 p., \$1.25. A series of newspaper illustrations suggesting inventions that might be made, reprinted in book form.

Science News Letter, October 21, 1933

Language—Psychology

THE ILLITERACY OF THE LITERATE—H. R. Huse—*Appleton-Century*, 273 p., \$2. This witty discourse on words, their uses and their misuse in "verbo-mania" will interest all who wish to read with understanding as well as those to whom language is a tool. The education which leaves a suggestible public at the mercy of the hypnotic "hokum" of advertisers and propagandists is condemned.

Science News Letter, October 21, 1933

Mathematics

THE ELEMENTS OF EUCLID—Edited by Isaac Todhunter—*Dutton*, 298 p., 70c. In inexpensive edition there is made accessible the Todhunter edition of Euclid's Elements, supplemented by an introduction prepared for this edition by Sir Thomas L. Heath. The publishers feel that this volume may easily be found as fascinating and as difficult to put down when once begun as any detective story.

Science News Letter, October 21, 1933

Medical History

BEHIND THE DOCTOR—Logan Clendening—*Knopf*, 469 p., \$3.75. Dr. Clendening has made an intensely colorful narrative of the history of medicine. Conservatives may criticize the free use of imagination, but the result is a most readable book. A bibliography indicates what is fanciful in each chapter and gives the sources to which the reader may turn for verification of the author's deductions or for more factual presentation of the subject. The book is fully and excellently illustrated.

Science News Letter, October 21, 1933

Medicine—Physics

THE SCIENCE OF RADIOLOGY—Edited by Otto Glasser—*Charles C. Thomas*, 450 p., \$4.50. Twenty-six authorities, marshalled under the editorship of Dr. Otto Glasser of the Cleveland Clinic Foundation and sponsored by the Radiological Society of North America, discuss exhaustively practically every phase of X-rays, radium rays, and other radiation. While much of the book is directed toward the therapeutic aspects of radiology, there are chapters by such

*The Fascinating
Story of Physics*

THE DEVELOPMENT OF PHYSICAL THOUGHT

By Leonard B. Loeb
Professor of Physics, University of California

and Arthur S. Adams
Professor of Mechanics, Colorado School of Mines

This book incorporates the newer development of physics in a sound, non-speculative fashion, devoid of the sensationalism of many recent books on modern physics. It is a skilfully told, fascinating and continuous story, from the earliest times down to the latest discoveries regarding the neutron and the structure of the nucleus, of the development of man's concepts of the physical world. It gives the reader a finer appreciation of the nature, methods, aims and achievements of physical science.

648 pages 5½ x 8½ \$3.75

John Wiley and Sons, Inc.
440 4th Avenue New York

Science, probing deep into the mystery of birth, has discovered undreamed of truths. Now a doctor, associate at Johns Hopkins University, tells forcefully, authentically the real "facts of life"—tells all learned to date of human procreation—reviews the ludicrous misinformation of the past—suggests the future which science envisages. Ill. \$2.75.

By Dr. A. F. Guttmacher

LIFE IN THE MAKING

For September

SCIENTIFIC BOOK CLUB SELECTIONS

For October

LIMITATIONS OF SCIENCE

At the ends of telescopes—beneath microscopes—twin universes exist. Into these antipodal but strangely similar worlds the scientist ventures. J. W. N. Sullivan tells what those venturings have won for science—what may be accomplished in the future—what may never be learned. \$2.75.

VIKING PRESS, NEW YORK

• First Glances at New Books

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authorities as Herman J. Muller, George L. Clark, Matthew Luckiesh, Arthur L. Compton, William Seifriz on more purely physical aspects.

Science News Letter, October 21, 1933

Military Science

WHAT WOULD BE THE CHARACTER OF A NEW WAR?—Eighteen authors—*Smith and Haas*, 420 p., \$2.50. The English edition of this book was greeted by the *New Statesman and Nation* as "the most terrible book which has ever been written." In a way it merits the distinction. For the unemotional objectivity with which the group of distinguished authors, some of whom a few years ago were trying to kill each other, discuss shellfire and gas, bankruptcy and starvation and pestilence, leaves one more dazed with horror than any amount of impassioned pleading. Some of the men are professional soldiers; all of them have a first-hand knowledge of war and have made special studies of it and of its effects. They do not dogmatize, and where they do not know they say so; but the things they do know and state with calm confidence make the few ounces of this book weightier than tons of ordinary pacifist tracts.

Science News Letter, October 21, 1933

Nursing

PUBLIC HEALTH NURSING IN INDUSTRY—Violet H. Hodgson—*Macmillan*, 249 p., \$1.75. Prepared for the National Organization for Public Health Nursing. The need for industrial nursing is forcibly pointed out and the duties of industrial nurses are fully explained in this book. Prof. C.-E. A. Winslow of Yale University in the foreword describes it as a "compact and admirable manual."

Science News Letter, October 21, 1933

Physics—Mechanical Engineering

CONTOUR MEASURING PROJECTOR—*Bausch & Lomb Optical Co.*, 37 p., free. A catalog and explanation of an optical instrument used for the precise measurement and inspection of small machine parts.

Science News Letter, October 21, 1933

Psychiatry

NERVOUS BREAKDOWN—W. Béran Wolfe—*Farrar and Rinehart*, 240 p., \$2.50. The author states his purpose as three-fold: to guide the general practitioner in his treatment; to help the patient's family and friends to under-

stand the patient's conduct; but primarily, to help the patient to help himself. The patient's first duty—to consult a competent and reputable physician—is not overlooked.

Science News Letter, October 21, 1933

Psychology

A HANDBOOK OF CHILD PSYCHOLOGY—Edited by Carl Murchison—*Clark Univ. Press*, 956 p., \$5. This volume, which is in convenient form despite its almost encyclopedic compass, is more than a mere revision of the first edition. This is due, the preface states, to the great expansion of the field during the last three years and partly to the improved insight of the editor.

Science News Letter, October 21, 1933

Psychology—Philosophy

MODERN MAN IN SEARCH OF A SOUL—C. G. Jung—*Harcourt, Brace*, 282 p., \$3. An excellent translation by Cary F. Baynes of a collection of essays. The work, which is not too technical to be of interest to the layman, throws light upon Jung's theories and his differences with Freud and Adler which developed, he says, from the needs of his patients who were beyond the age of forty. The young person's psychic difficulties arise for the most part from a need to fit in with the group and become socially useful. The older person, who has already succeeded in becoming a useful member of the community or perhaps a leader, faces a new problem—that of finding meaning in his own individual life.

Science News Letter, October 21, 1933

Psychology—Physiology

MORE POWER TO YOU!—Walter B. Pitkin—*Simon and Schuster*, 298 p., \$1.75. With the sub-title "A Working Technique for Making the Most of Human Energy," Prof. Pitkin has gathered information about human energy and personal working conditions and habits. Processed by Pitkin, and seasoned by his interesting opinions, the thesis is advanced that maladjustments are mainly defects in energizing and that energy is the key to achievement.

Science News Letter, October 21, 1933

Radio

PIERRE KEY'S RADIO ANNUAL—*Pierre Key*, 479 p., \$7.50. Comprehensive in scope is this annual, listing the radio stations of the world, the talent that entertains, the advertisers that use the networks, the sustaining programs of the networks and other material of a similar nature.

Science News Letter, October 21, 1933

Radio

WIRELESS—W. H. Eccles—*Thorn-ton Butterworth, Ltd.*, 256 p., 2s 6d. The author is the eminent British authority and this volume of the Home University Library provides a satisfactory brief summary of radio theory and practice.

Science News Letter, October 21, 1933

Sociology

RURAL CRIME CONTROL—Bruce Smith—*Institute of Public Administration, Columbia Univ.*, 306 p., \$2. The problems of today viewed against the background of the history of rural law enforcement. Based upon direct observations and studies made by the writer on rural justice administration both in this country and abroad.

Science News Letter, October 21, 1933

Zoology

THE BOOK ABOUT ANIMALS—*Warne*, 100 p., 12 pl., \$2. With its twelve plates in color and 133 large text illustrations, this is primarily a picture book; nevertheless the running fire of text comment is full of well chosen and well presented fact. A good book to give a youngster of junior high school age, if he is interested in animals.

Science News Letter, October 21, 1933

Zoology

THE WILD HORSES OF ICELAND—Svend Fleuron—*Holt*, 236 p., \$2.50. The author of this story has achieved an international reputation as a writer of animal stories. Here he tells of the Icelandic farmer and the important part the horse plays in his struggle for existence. The plot serves only as a background for the telling of the everyday life of the animals, as well as of the more stirring times when their strength and devotion are brought to the forefront. The illustrations are done in Cecil Aldin's own inimitable fashion.

Science News Letter, October 21, 1933

Science News Letter will secure for its subscribers any book or magazine in print which was published in the United States. Send check or money order to cover regular retail price (\$5 if price is unknown, change to be remitted) and we will pay postage in the U. S. When publications are free, send 10c for handling. Address Book Dept., Science News Letter, 21st and Constitution Ave., Washington, D. C.
