

# NEW BOOKS ON SCIENCE

Science News Letter presents a comprehensive list of scientific books published or to be published between July 1 and December 31, 1935. All information is believed to be correct but is not guaranteed. Prices are listed where known. Prices marked\* are tentative. This list is recommended as a handy reference in the purchasing of books on science.

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. Address Book Dept., Science News Letter, 2101 Constitution Ave., Washington, D. C.

## Anthropology, Archaeology

- ANCIENT AND MEDIEVAL BASKETWORK—H. H. Bobart—*Oxford*, \$5.\*
- ANTHROPOLOGY IN ACTION—G. Gordon Brown and A. McD. Bruce Hutt—*Oxford*, \$2.75.
- ARCHAEOLOGY OF PALESTINE AND THE BIBLE—W. F. Albright—*Revell*, \$2.
- BOTH SIDES OF BUKA PASSAGE—B. Blackwood—*Oxford*, \$12.\*
- CHINOOK: A History and Dictionary—E. H. Thomas—*Metropolitan*, \$2.
- THE CHRONICLE OF THE SLAVS, BY HELMOLD, PRIEST OF BOSAU—trans. by F. J. Tschan—*Columbia*, \$4.
- COINS FROM SELEUCIA ON THE TIGRIS—R. H. McDowell—*U. of Michigan*, \$3.50.
- THE CROW INDIANS—Robert H. Lowie—*Farrar and Rinehart*, \$4.
- DEVELOPMENT OF SUMERIAN ART—C. Leonard Woolley—*Scribner*, \$10.\*
- THE EMPIRE OF THE SNAKES—F. G. Carnochan and H. C. Adamson—*Stokes*, \$3.
- EVIDENCE OF EARLY MAN IN NORTH AMERICA—E. B. Howard—*U. of Pennsylvania Museum*, \$1.50.
- EXCAVATION AND THE BIBLE—R. H. Malden—*Oxford*, \$1.25.
- EXCAVATIONS AT NUZI: Vol. III, Old Akkadian, Sumerian and Cappadocian Texts from Nuzi—T. J. Meek—*Harvard*, \$6.
- FOLK-LORE FROM ADAMS COUNTY, ILLINOIS—Harry Middleton Hyatt—*Alma Egan Hyatt Found.*, \$6.
- FRAGMENTS OF AN UNKNOWN GOSPEL AND OTHER EARLY CHRISTIAN PAPYRI—ed. by H. Idris Bell and T. C. Skeat—*Oxford*, \$2.
- GUIDE TO THE RUINS OF QUIRIGUA, GUATEMALA—Sylvanus Morley—*Carnegie Institute of Washington*.
- HEREDITY AND THE ASCENT OF MAN—C. C. Hurst—*Macmillan*, \$1.75.\*
- A HISTORY OF ROME, from 753 B. C. to 410 A. D.—C. E. Robinson—*Crowell*, \$3.50.
- HOPi JOURNAL—Elsie Clews Parsons—*Columbia*.
- THE INDIAN PEASANT—N. Gangulee—*Oxford*, \$4.
- INDIANS OF THE PUEBLOS—Therese O. Deming—*Whitman*, \$1.50.
- THE MEDICINE MAN OF THE AMERICAN INDIAN AND HIS CULTURAL BACKGROUND—W. T. Corlett—*C. C. Thomas*, \$5.
- MONUMENTS AND MEN OF ANCIENT ROME—Grant Showerman—*Appleton*, \$5.
- NASKAPI, the Savage Hunters of the Labrador Peninsula—Frank G. Speck—*U. of Oklahoma*, \$3.50.
- NEW ARCHAEOLOGICAL SITES FROM THE STATE OF FALCÓN, VENEZUELA—Gladys A. Nomland—*U. of California*, \$1.50.
- OLD TESTAMENT IN THE LIGHT OF ANTHROPOLOGY—E. O. James—*Macmillan*, \$1.75.

- OUR INDIANS—A. Hyatt Verrill—*Putnam's*, \$2.50.
- OUR PREHISTORIC ANCESTORS—Herdman Cleland—*Garden City Pub. Co.*, \$1.22.
- PALACE OF MINOS AT KNOSSOS—Arthur Evans—*Macmillan*, 4 vols., \$145.00.
- PREHISTORIC ASSYRIA—M. E. L. Mallowan and J. C. Rose—*Oxford*, \$7.
- PRIMITIVES AND THE SUPERNATURAL—Lucien Lévy-Bruhl—*Dutton*, \$5.\*
- RACE DIFFERENCES—Otto Klineberg—*Harper*, \$2.50.
- SOKNOPAIUO NESOS: The University of Michigan Excavations at Dime, 1931-1932—ed. by A. E. R. Boak—*U. of Michigan*, \$2.50.
- STAMPED AND INSCRIBED OBJECTS FROM SELEUCIA ON THE TIGRIS—R. H. McDowell—*U. of Michigan*, \$3.50.
- THE STONE AGE RACES OF KENYA—L. S. B. Leakey and others—*Oxford*, \$12.75.
- TEPE GAWRA, Levels I-VIII—E. A. Speiser—*U. of Pennsylvania*, \$6.
- TERRA NOVA: the Northeast Coast of America before 1602—C. K. Bolton—*Faxon*, \$3.50.
- THE TRESSE IRON-AGE MEGALITHIC MONUMENT—V. C. C. Collum—*Oxford*, \$4.
- WINTU ETHNOGRAPHY—Cora Dubois—*U. of California*, \$1.75.

## Astronomy

- ASTRONOMY—Arthur M. Harding—*Garden City*, \$1.98.
- ASTRONOMY (3d ed.)—John C. Duncan—*Harper*, \$3.50.
- THE BINARY STARS—R. G. Aitken—*McGraw-Hill*, \$3.75.
- CONSIDER THE HEAVENS—F. R. Moulton—*Doubleday, Doran*, \$3.
- THE DIMENSIONS AND STRUCTURE OF THE GALAXY—J. S. Plaskett—*Oxford*, 75c.
- EARTH AND SUN RELATIONS—Clarence E. Koeppe—*McKnight*, 20c.
- ECLIPSES OF THE SUN (4th ed.)—S. A. Mitchell—*Columbia*, \$5.
- AN EPHEMERIS OF 467 A.D.—Heber D. Curtis and Frank E. Robbins—*U. of Michigan*, for exchange, not for sale.
- HANDBOOK OF THE HEAVENS—ed. by H. J. Bernhard and others—*Whittlesey*, \$1.
- HEAVEN KNOWS WHAT—Scorpio—*Doubleday, Doran*, \$2.
- HIGHLIGHTS OF ASTRONOMY, with Stellar-scope (device for finding and identifying stars and constellations)—Walter Bartky—*U. of Chicago*, \$2.50; Stellar-scope alone \$2.
- THE HOME-MADE TELESCOPE—W. F. Decker—*Perine Book Co.*
- HOW TO MAKE SKY PICTURES (Astronomy for the young)—John Martin and C. L. Youmans—*Greenberg*, \$1.
- A KEY TO THE STARS—R. van der Riet Woolley—*David McKay*, \$2.

- LET'S LOOK AT THE STARS—E. B. Frost—*Houghton Mifflin*, \$1.75.
- ON THE APSIDAL MOTION IN BINARY STARS—W. J. Luyten—*U. of Minnesota*, \$3.
- THE SOLAR SYSTEM AND ITS ORIGIN—Henry Norris Russell—*Macmillan*, \$2.\*
- STARS AND TELESCOPES—James Stokley—*Harper*, \$3.
- THROUGH THE TELESCOPE—Edward A. Fath—*Whittlesey*, \$2.50.
- A WORKING OUTLINE OF ENGINEERING ASTRONOMY—J. H. Service—*Edwards Bros.*, \$2, paper \$1.35.

## Biology

- THE ALGAE AND THEIR LIFE RELATIONS: Fundamentals of Phycology—J. E. Tilden—*U. of Minnesota*, \$5.
- BIOLOGY OF MAYFLIES—J. G. Needham and others—*Comstock*, \$7.50.
- BIRDS AND THE SEA—Frances Pitt—*Longmans*.
- THE BOOK OF THE MICROSCOPE—Gerald Beavis—*Lippincott*.
- A BOOK OF TROUT FLIES—Preston J. Jennings—*Derrydale*, \$20.00.
- CONTRIBUTIONS TO EMBRYOLOGY, Vol. XXV. Nos. 144 to 151. *Carnegie Institution of Washington*, \$2.75.
- CRITERIA FOR THE LIFE HISTORY—John Dollard—*Yale*, \$2.50.
- ESSENTIALS OF TISSUE CULTURE TECHNIQUE—Gladys Cameron—*Farrar & Rinehart*.
- GENETIC VARIATIONS IN RELATION TO EVOLUTION—H. S. Jennings—*Princeton*, \$2.
- GENETICS—H. S. Jennings—*Norton*, \$4.
- GENETICS AND THE SOCIAL ORDER—Mark Graubard—*Tomorrow, Publishers*, cloth 75c, paper 50c.
- HUMAN ECOLOGY—J. W. Bews—*Oxford*, \$5.\*
- INTRODUCTION TO VERTEBRATE EMBRYOLOGY (3d ed.)—Waldo Shumway—*Wiley*, \$4.
- LABORATORY MANUAL IN ANIMAL PARASITOLOGY—H. W. Manter—*Burgess*, \$1.75.
- MICROSCOPIC ANATOMY OF VERTEBRATES—Scott and Kendall—*Lea & Febiger*.
- MODERN EXERCISES IN ADVANCED BIOLOGY—Blechman and Schachter—*Globe*, 40c.
- ORDER AND LIFE—Sir Joseph Needham—*Yale*, \$2.50.
- OUR WORLD OF LIVING THINGS: A High School Biology—Heiss, Obourn and Manzer—*Webster Publ. Co.*, Books I and II, 42c each.
- OUTLINE OF GENERAL BIOLOGY—G. Alexander—*Barnes & Noble*, 75c.
- PRINCIPLES OF INSECT MORPHOLOGY—Robert Evans Snodgrass—*McGraw-Hill*.
- PROBLEMS OF INSECT STUDY—Paul Knight—*Edwards Bros.*
- PROBLEMS IN EXPERIMENTAL EMBRYOLOGY—J. S. Huxley—*Oxford*, 35c.
- PROBLEMS IN SOIL MICROBIOLOGY—Cutler and Crump—*Longmans*, \$3.20.
- QUALITATIVE MICRO-ANALYSIS—Carl J. Engelder—*Wiley*.
- THE SEA FOR SAM—W. M. Reed and W. S. Bronson—*Harcourt*, \$3.
- SINGING IN THE WILDERNESS—Donald Culross Peattie—*Putnam's*, \$2.50.
- A TEXTBOOK OF BACTERIOLOGY—T. B. Rice—*Saunders*, \$5.

A TEXTBOOK OF GENERAL BACTERIOLOGY—  
E. O. Jordan—*Saunders*, \$6.  
VARIATION OF ANIMALS IN NATURE—Rob-  
son and Richards—*Longmans*, \$8.  
WORLD BENEATH THE MICROSCOPE — W.  
Watson-Baker—*Studio*, \$2.50.

### Botany, Agriculture

THE AGRICULTURAL FAIR—W. C. Neely—  
*Columbia*, \$3.75.  
AGRICULTURE FOR SECONDARY SCHOOLS—  
McIntosh and Orr—*Amer. Book*.  
AMERICAN FERNS, How to Know, Grow and  
Use Them—Edith A. Roberts and Julia Law-  
rence—*Macmillan*, \$2.50.  
ANNOTATED BIBLIOGRAPHY OF LOW TEM-  
PERATURE RELATIONS OF PLANTS—Rodney  
Beecher Harvey—*Burgess*, \$4.  
BACKYARD EXPLORATION — Paul Griswold  
Howes—*Doubleday, Doran*, \$3.  
THE BEGINNINGS OF PLANT HYBRIDIZATION—  
Conway Zirkle—*U. of Pennsylvania*, \$2.50.  
COLLOIDS IN AGRICULTURE—C. E. Marshall—  
*Longmans*, \$1.90.  
EXERCISES IN AGRICULTURE AND NATURE  
STUDY—J. H. Seymour—*Burgess*.  
FARM MECHANICS TEXT & HANDBOOK—  
Cook, Scranton and McColly—*Interstate  
Publ. Co.*, \$2.50.  
FARM SOILS (2d ed.)—E. L. Worthen—*Wi-  
ley*, \$2.75.  
A FLOWER BOOK FOR THE POCKET—Mac-  
gregor Skene—*Oxford*, \$3.  
GARDENING INDOORS—F. F. Rockwell—*Mac-  
millan*, \$2.50.  
GARDENING SHORT CUTS—M. G. Kains—  
*Greenberg*, \$2.  
GARDENING VARIETY—Sir A. F. Hort—*Long-  
mans*, \$4.20.\*

### Announcing

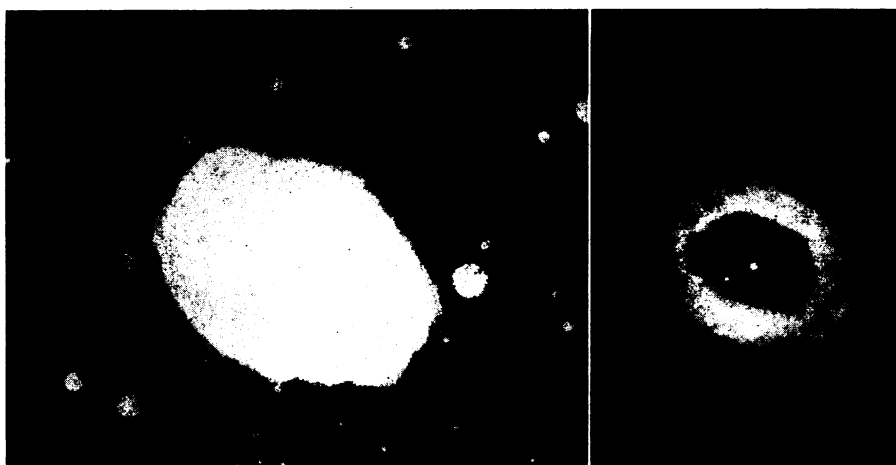
## Historical Geology of the Antillean-Caribbean Region

By Charles Schuchert, D.Sc.  
*Professor Emeritus of Paleontology,  
Yale University*

This first book of a proposed three-  
volume treatise summarizes the strati-  
graphy and historical geology of Mex-  
ico, Central America, all of the Antil-  
lean Islands, and Northern South Amer-  
ica (Venezuela and Colombia), as well  
as the Gulf Coastal States of the Unit-  
ed States. Formations are correlated  
within each region, and also interre-  
gionally. The paleogeography and the  
geosynclines are illustrated on a new  
series of fourteen maps. Geologic maps  
are included for most of the regions,  
either compiled or taken from the best  
sources available.

811 pages 6 by 9 \$10.00

**JOHN WILEY & SONS, Inc.**  
440 Fourth Avenue New York



### NEW ASTRONOMICAL DISCOVERY

Here are the first photographs showing the newly-found enlarged dimensions of the fa-  
mous ring nebula in the constellation of Lyra. Dr. John C. Duncan of Whitin Observa-  
tory, Wellesley College secured the above pictures with the great 100-inch diameter reflect-  
ing telescope at Mt. Wilson Observatory. On the right is shown Lyra's ring nebula as it  
was formerly obtained with the usual silver coating on the telescope mirror. On the left  
is the same object taken with the new aluminum coating on the mirror. The ring in the  
right hand picture appears as the center white area in the view on the left. The faint-  
er area surrounding the central white spot shows the new-found increase in the nebula's  
size. The enlarged appearance of adjacent stars is caused by the long exposure of the  
photographic plate necessary to obtain indications of the fainter regions. (See SNL,  
Sept. 28).

### Chemistry

GENERAL FORESTRY—N. C. Brown—*Wiley*,  
\$3.25.  
A GENERAL INTRODUCTION TO FORESTRY IN  
THE UNITED STATES—Nelson C. Brown—  
*Wiley*, \$3.25.  
IDENTIFICATION KEY FOR THE SPRING FLOW-  
ERS OF NORTHEASTERN COLORADO—E. C.  
Smith—*B & M Printing Co.*, 85c.  
AN ILLUSTRATED MANUAL OF PACIFIC COAST  
TREES—H. E. McMinn and E. Maino—*U.  
of California*, \$3.50.  
J. ARTHUR HARRIS, BOTANIST AND BIOMETRI-  
CIAN—ed. by C. O. Rosendahl, R. A. Gort-  
ner and G. A. Burr—*U. of Minnesota*,  
\$2.50.  
LILIES: Their Culture and Management—H.  
Drysdale Woodcock and John Coutts—  
*Scribner*, \$6.  
A MANUAL OF SOUTHERN CALIFORNIA BOT-  
ANY—P. A. Munz—*J. W. Stacey*, \$5.  
OUTLINE OF GENERAL FORESTRY—J. S. Illick  
—*Barnes and Noble*, paper 75c., cloth \$1.50.  
PLANT PHYSIOLOGY — Meirion Thomas —  
*Blakiston's*, \$5.  
PROCEEDINGS OF THE THIRD INTERNATIONAL  
CONFERENCE OF AGRICULTURAL ECONO-  
MISTS—*Oxford*, \$6.  
ROCK GARDEN PLANTS—C. Elliott—*Long-  
mans*, \$3.  
THE STORY OF THE PLANT KINGDOM—Merle  
C. Coulter—*U. of Chicago*, \$2.50.  
STUDIES IN TREE GROWTH BY THE DENDRO-  
GRAPHIC METHOD—Daniel T. MacDougal  
—*Carnegie Institution of Washington*.  
TOBACCO DISEASES AND DECAYS—F. A. Wolf  
—*Duke Univ.*, \$5.  
TRANSACTIONS OF THE BOSE R. I., Vol. 9—  
Sir J. C. Bose—*Longmans*, \$7.20.\*  
THE TRANSLOCATION OF SOLUTES IN PLANTS  
—Otis F. Curtis—*McGraw-Hill*, \$3.  
TUBEROUS-ROOTED BEGONIAS AND THEIR  
CULTURE — George Otten — *De La Mare*,  
75c.  
WEED SEEDS—Emil Korsmo—*Stechert*, \$10.  
WORKBOOK IN FARM MECHANICS—Cook—  
*Interstate Publ. Co.*, 82c.

ANALYTICAL CHEMISTRY, Vol. II: Quantita-  
tive Analysis (8th ed.)—F. Treadwell and  
W. Hall—*Wiley*, \$6.  
BIOCHEMISTRY OF THE LIPIDS—H. B. Bull—  
*Burgess*, \$3.25.  
BRIEF COURSE IN QUALITATIVE CHEMICAL  
ANALYSIS—L. J. Curtman—*Macmillan*.  
CHEMICAL INDUSTRY'S CONTRIBUTION TO THE  
NATION—ed. by William Haynes and E.  
L. Gordy—*Chemical Industries*, \$1.  
CHEMICALS IN THE HOME—J. O. Frank—  
*Author*, 25c.  
CHEMISTRY OF CEMENT AND CONCRETE—  
Lea and Desch—*Longmans*, \$9.50.  
CHEMISTRY OF SYNTHETIC RESINS (2 vols.)  
—Carleton Ellis—*Reinhold Publ. Corp.*  
THE COLLECTED SCIENTIFIC PAPERS OF SIR  
WILLIAM BATE HARDY — (*Cambridge*)  
*Macmillan*, \$20.  
THE COMMON CHEMICAL ELEMENTS—J. O.  
Frank—*Author*, 10c.  
COMP. TREATISE ON INORGANIC AND THEO-  
RETICAL CHEMISTRY, Vol. 14—Mellor—  
*Longman's* \$20.  
CRYSTAL CHEMISTRY — Hassel — *Chemical  
Publ. Co.*, \$3.  
DICTIONARY OF ORGANIC COMPOUNDS, Vol.  
II—I. M. Heilbron and others—*Oxford*,  
\$30.  
ELECTRON EMISSION AND ADSORPTION PHE-  
NOMENA—J. H. de Boer—(*Cambridge*)  
*Macmillan*, \$5.50.  
ESSENTIALS OF PHYSIOLOGICAL CHEMISTRY—  
A. K. Anderson—*Wiley*, \$2.75.  
EXPERIMENTS IN CHEMISTRY FOR ENGINEERS  
—G. B. Heisig and L. J. Maynard—  
*Burgess*, \$1.45.  
FOOD AND BEVERAGE ANALYSES—Bridges—  
*Lea & Febiger*.  
FORENSIC CHEMISTRY AND SCIENTIFIC CRIM-  
INAL INVESTIGATION (3rd ed.)—A. Lucas  
—*Longman's* \$6.40.

GENERAL CHEMISTRY: (An Introductory Course of Lessons and Exercises in Chemistry.)—Schoch and Felsing—*Von Boeckmann-Jones*, \$3.50.

HANDBOOK OF CHEMISTRY AND PHYSICS—Charles D. Hodgman—*Chemical Rubber*, \$6.

IDEAS OF PHYSICAL CHEMISTRY—McKay—*Chemical Publ. Co.*, \$3.50.

INORGANIC AND THEORETICAL CHEMISTRY—Taylor—*Chemical Publ. Co.*, \$6.

INTRODUCTION TO INORGANIC CHEMISTRY—G. H. Cartledge—*Ginn*, \$3.

AN INTRODUCTION TO THE MODERN THEORY OF VALENCY—J. C. Speakman—*Longmans*.

LABORATORY AND WORKBOOK UNITS IN CHEMISTRY—Maurice U. Ames and Bernard Jaffe—*Silver, Burdett*, \$1.08, laboratory manual, 84c.

LABORATORY EXERCISES IN INORGANIC CHEMISTRY—G. H. Cartledge and H. M. Woodburn—*Ginn*, \$1.

LABORATORY MANUAL OF HIGH SCHOOL CHEMISTRY (rev.)—G. H. Bruce—*World Book*, 76c.

NOTES ON ORGANIC CHEMISTRY—Price and Twiss—*Longmans*.

OPTICAL BASIS OF THE THEORY OF VALENCY—R. de L. Kronig—(*Cambridge*) *Macmillan*, \$4.50.

ORGANIC CHEMISTRY—Gruener and Lanckelma—*Edwards Bros.*

ORGANIC CHEMISTRY—Lucas—*Amer. Book*, \$3.60.

ORGANIC CHEMISTRY—Taylor—*Chemical Publ. Co.*, \$5.50.

ORGANIC SOLVENTS—Arnold Weissberger and Erich Proskauer—*Oxford*, \$5.

ORIGINS AND DEVELOPMENT OF APPLIED CHEMISTRY—J. R. Partington—*Longmans*.

PETROLEUM: Twenty-five Years Retrospect, 1910-35—Institution of Petroleum Technologists—*Engineers Book Shop*, \$2.50.

PHYSICAL CHEMISTRY—Mee—*Chemical Publ. Co.*, \$6.

PRINCIPLES AND APPLICATIONS OF ELECTROCHEMISTRY, Vol. I: PRINCIPLES (3rd ed.)—H. J. Creighton—*Wiley*, \$4.

PRINCIPLES AND APPLICATIONS OF ELECTROCHEMISTRY, Vol. II: APPLICATIONS—W. A. Koehler—*Wiley*, \$5.

PRINCIPLES OF EXPERIMENTAL AND THEORETICAL ELECTROCHEMISTRY—Malcolm Dole—*McGraw-Hill*, \$5.

QUALITATIVE ANALYSIS—Moodey—*Chemical Publ. Co.*, \$2.

QUANTITATIVE ANALYSIS (3rd ed.)—Popoff (rev. by M. J. Rice and W. P. Cortelyou)—*Blakiston's*, \$4.

STRUCTURE AND COMPOSITION OF FOOD, Vol. 2—A. L. and K. Winton—*Wiley*, \$15.

STRUCTURE OF CRYSTALS (Supplement to 2d ed., covering 1930-34 inclusive) *Amer. Chem. Soc. Monograph*—R. W. G. Wyckoff—*Reinhold Pub. Corp.*, \$6.

SULFURIC ACID MANUFACTURE, *Amer. Chem. Soc. Monograph*—A. W. M. Fairlie—*Reinhold Pub. Corp.*

SYSTEMATIC IDENTIFICATION OF ORGANIC COMPOUNDS—R. L. Shriner and R. C. Fuson—*Wiley*, \$2.25.

TECHNICAL ASPECTS OF EMULSIONS (new U. S. ed.)—Walsh and others—*Chemical Publ. Co.*, \$4.

TEXTBOOK OF QUANTITATIVE INORGANIC ANALYSIS—I. M. Kolthoff and E. B. Sandell—*Macmillan*.

AN OUTLINE OF BIOMETRIC ANALYSIS—A. E. Trelor—*Burgess*, \$3.10.

### Economics

BACK TO WORK, THE STORY OF PWA—Harold L. Ickes—*Macmillan*, \$2.50.

BALANCING THE ECONOMIC CONTROLS—R. A. Stevenson and R. S. Vaile—*U. of Minnesota*, \$1.50.

BIBLIOGRAPHY OF ECONOMICS, 1751-1775—Henry Higgs—(*Cambridge*) *Macmillan*, \$11.

COFFEE: The Epic of a Commodity—H. E. Jacob—*Viking*, \$3.50.

COMMODITY CONTROL IN THE PACIFIC AREA—W. L. Holland—*Stanford Univ.*, \$5.

CONDITIONS OF PEACE AND CAUSES OF WAR—O. Wright—*Longmans*, \$2.

CONTEMPORARY AMERICAN INSTITUTIONS—F. Stuart Chapin—*Harper*, \$2.75.

COTTON GOES TO MARKET—A. H. Garside—*Stokes*, \$3.50.

THE DAIRY INDUSTRY AND THE AAA—John D. Black—*Brookings Institution*, \$3.

DOCUMENTS ON INTERNATIONAL AFFAIRS, 1934—J. W. Wheeler-Bennett and S. A. Heald—*Oxford*, \$10.

THE ECONOMICS OF ALFRED MARSHALL—H. J. Davenport—*Cornell Univ.*, \$4.50.

ECONOMICS OF PLANNING—H. R. Burrows and J. K. Horsefield—*Amer. Acad. of Political and Social Science*, 50c.

EMPLOYMENT RESEARCH—L. C. Marsh—*Oxford*, \$3.

ESSAYS IN SOCIAL ECONOMICS, in Honor of Jessica Blance Peixotto—E. T. Grether and associates—*U. of California*, \$2.

LIVESTOCK UNDER THE AAA—D. A. Fitzgerald—*Brookings Institution*, \$2.50.

MACHINERY AND UNEMPLOYMENT—*National Industrial Conference Board*.

LAND AND UNEMPLOYMENT—J. F. Muirhead—*Oxford*, \$2.25.

FAREWELL TO POVERTY—Maurice Parmelee—*Wiley*, \$3.50.

HANDBOOK OF THE LEAGUE OF NATIONS—D. P. Myers—*World Peace Found.*, cloth \$2.50, student ed. 75c.

INCOME AND ECONOMIC PROGRESS—H. G. Moulton—*Brookings Institution*, \$2.

INDUSTRIALIZATION OF THE EAST AND ITS EFFECT ON THE WEST—G. E. Hubbard—*Oxford*, \$7.\*

IS INDUSTRY DECENTRALIZING? Bull. III: Study of Population Redistribution—D. B. Creamer—*U. of Pennsylvania*, \$1.

INTERNATIONAL CONTROL OF THE NON-FERROUS METALS—W. Y. Elliott and others—*Macmillan*, \$10.

INTERNATIONAL TRADE PRINCIPLES AND PRACTICES—P. V. Horn—*Prentice-Hall*, \$5.

LABOR PROBLEMS IN AMERICAN INDUSTRY—C. S. Daugherty—*U. of Pittsburgh*.

LABOUR IN AGRICULTURE—Lady L. Howard—*Oxford*, \$7.

## CAMBRIDGE UNIVERSITY PRESS



## Vitamins in Theory and Practice

L. J. Harris \$3.00

*The discovery of Vitamins makes one of the most fascinating stories of modern science. Dr. Harris here gives a lively account of what might well be called the Romance of Vitamins. This book, which is extensively illustrated, explains the significance of Vitamins in everyday life, shows how they work and how they are used and should be used still more to fight preventable disease.*

## Prognosis in the Neuroses

T. A. Ross \$3.50

*Dr. Ross summarizes the results of treatment of the patients suffering from neuroses who were under his care for a number of years.*

## Interpolatory Function Theory

J. M. Whittaker \$2.00

*A new volume in The Cambridge Mathematical Tracts dealing with interpolation, finite differences and successive derivatives.*

## Scenery and the Sense of Sight

Vaughan Cornish \$2.75

*In this book the author brings together the results of a lifetime of observation, analysing scientifically the factors which go to make up the scenery. Illustrated with the author's own drawings.*

Prices tentative  
Prospectuses on request

The Macmillan Company

60 Fifth Avenue

NEW YORK

Famous Naturalists in Search  
of Vampire Bats and the  
Bushmaster

## SNAKE HUNTERS' HOLIDAY

By RAYMOND L. DITMARS  
and WILLIAM BRIDGES

The complete story of a recent Trinidad and British Guiana expedition to secure specimens for the New York Zoological Park.

At all bookstores. Illustrated \$3.50

D. APPLETON-CENTURY COMPANY  
35 West 32nd Street, New York

★ ★ ★ ★ ★ ★

"Chemistry can be made as definitely cultural as the classics and in addition it is intensely practical." (B. S. HOPKINS, *University of Illinois, speaking before the A.A.A.S.*)

## Bernard Jaffe's NEW WORLD OF CHEMISTRY

not only covers most adequately the required factual material of chemistry, but it also stimulates an appreciation of and interest in chemistry as a cultural subject.

In writing about this new text, B. S. Hopkins said: "... I think you are to be congratulated on the excellence of the publication. The illustrations are wonderfully fine. I am sure this book ought to be popular with young people."

Frederick E. Breithut (Brooklyn College) says: "... it is an ideal text for students who are being introduced to the science of chemistry. The book is attractively gotten up, well written, modern in its viewpoint."

Our nearest office will be glad to send you full details about this increasingly popular text.

## LABORATORY AND WORKBOOK UNITS IN CHEMISTRY

By Maurice U. Ames & Bernard Jaffe

Fifty units, each consisting of experiments, observations and questions on experiments, conclusions, supplementary exercises, and optional questions. Both consumable and nonconsumable editions.



## SILVER, BURDETT AND COMPANY

New York      Newark      Boston  
Chicago      San Francisco

### ZOOLOGY

## Holding the Bag

● "Well, if we see a bushmaster, we'll pick him up, dump him in a sack, tie it shut—and there we are!"

"I could imagine Arthur manipulating the snake hook and dumping a mad and poisonous snake in a bag, but I couldn't see who was going to hold the bag. I couldn't see myself doing it, anyway."—William Bridges in *SNAKE-HUNTERS' HOLIDAY* by Raymond L. Ditmars and William Bridges (*Appleton-Century*).

*Science News Letter, October 26, 1935*

### PSYCHOLOGY

## Intellectual Light

● "Consciousness has been compared to the light of an electric bulb; the bulb, with its filament and other parts, corresponds to the body. The flowing light is as incapable of existing apart from the lamp as your thoughts are of existing apart from your body."—Dorothy Hazeltine Yates, Ph.D. in *PSYCHOLOGICAL RACKETEERS* (*Bruce Humphries, Inc.*)

*Science News Letter, October 26, 1935*

### BOTANY

## Full of Life

● "Living protoplasm is a going concern, always in a dynamic state. Like a running engine it demands a continuous supply of fuel. Otherwise it will stop running, and death will occur. For fuel the living organism can make use of only a limited class of substances—substances which not only contain energy but contain energy in a form that can be released and put to work by the organism. This is the category of substances that we refer to as food."—Merle C. Coulter in *THE STORY OF THE PLANT KINGDOM* (*Univ. of Chicago Press*).

*Science News Letter, October 26, 1935*

### ZOOLOGY

## Late

● "If we could emulate Noah and review a Parade of the Animal Kingdom containing a pair of every species of animal known to science, and if these animals were to march by at the rate of one pair every three seconds, more than a month would elapse before the Gorilla would make his appearance. No one knows how many different kinds, or species, of animals are now living on the earth, but three million is certainly a conservative estimate."—Robert Hegner in *PARADE OF THE ANIMAL KINGDOM* (*Macmillan*).

*Science News Letter, October 26, 1935*

# THE AUTH

### MEDICINE

## Without Plan

● "Obviously, science follows no plan. It develops at random. Its progress depends on fortuitous conditions, such as the birth of men of genius, the form of their mind, the direction taken by their curiosity. It is not at all actuated by a desire to improve the state of human beings. The discoveries responsible for industrial civilization were brought forth at the fancy of the scientists' intuitions and of the more or less casual circumstances of their careers."—Alexis Carrel in *MAN THE UNKNOWN* (*Harper & Brothers*).

*Science News Letter, October 26, 1935*

### GENETICS

## Heredity

● "Genetics may be defined as an account of the effects of the diversity of materials with which different individuals start life: the effects of the different materials received from their parents. These effects are commonly classified as heredity, so that Genetics deals largely with heredity. Heredity itself may be defined as the influence on the individuals of the materials which they receive from their parents at the beginning of their lives."—H. S. Jennings in *GENETICS* (*W. W. Norton*)

*Science News Letter, October 26, 1935*

### PSYCHIATRY

## Not Peculiar

● "It must be true, as Jung expressed it so well in the early days when he was still an analyst, that neuroses have no peculiar content which belongs exclusively to them, but that neurotics break down at the same difficulties that are successfully overcome by normal people. This discovery was very far from being a disappointment. It was in complete harmony with another one: that the depth-psychology revealed by psychoanalysis was in fact the psychology of the normal mind. Our path had been like that of chemistry: the great qualitative differences between substances were traced back to quantitative variations in the proportions in which the same elements were combined."—Sigmund Freud in *AUTOBIOGRAPHY* (*W. W. Norton & Company, Inc.*)

*Science News Letter, October 26, 1935*

# ORS SAY:

## PHYSICS

## Colossal Sound

● "The sound power radiated by a siren is colossal compared with that used in normal conversation. For example, the power from a ship's siren might be 1/7 horse-power or approximately 100 watts, which is ten million times the speech power in ordinary conversation. Putting the statement in another form, one-quarter of the population of England would have to talk simultaneously to generate the same sound power as the ship's siren."—N. W. McLachlan in *NOISE; A COMPREHENSIVE SURVEY FROM EVERY POINT OF VIEW (Oxford)*.

*Science News Letter, October 26, 1935*

## GEOGRAPHY

## Esteemed

● "In no other land does the tiller of the soil receive the esteem that he does in Japan. Here his rank in the social scale is noteworthy. Indeed, even in overcrowded China with its agricultural millions, the farmers hold no higher place in the social scale."—Daniel R. Bergsma in *ECONOMIC GEOGRAPHY OF ASIA (Prentice-Hall)*.

*Science News Letter, October 26, 1935*

## HYGIENE

## Out of Order

● "Many people are not really well all the time. It has been estimated that perhaps 10 per cent. are well, in the sense that their bodies are free from defects that alter function, and that they can carry on their affairs regularly, effectively, and comfortably, without let or hindrance because of aches, pains and ailments. The vast majority, perhaps 80 per cent., are from time to time, or even all the time, slightly or seriously, out of order in respect to health (e. g. subject to repeated colds, indigestion, headaches, etc.; or lacking in the feelings and the appearance of genuine health). The remainder, 10 per cent., may be classed as frankly ill, either out of the running or badly in need of the curative ministrations of medical science.

"It is largely for these 80 per cent. who may be said to have a *subnormal health* that hygiene is of value."—F. L. Meredith in *TWELVE HOURS OF HYGIENE (Blakiston's)*.

*Science News Letter, October 26, 1935*

## ASTRONOMY

## Dark

● "For masses less than ten thousand times that of our planet the escape of heat will be too small to keep the surface incandescent. They will be dark bodies. No matter how many of these there may be, revolving about the stars, we cannot detect them."—Henry Norris Russell in *THE SOLAR SYSTEM AND ITS ORIGIN (Macmillan)*.

*Science News Letter, October 26, 1935*

## PHYSICS

## Closed

● "We have undertaken a survey of the present status of the problem of interpreting the line spectra due to atoms. This interpretation seems to us to be in a fairly closed and highly satisfactory state. All known features of atomic spectra are now at least semi-quantitatively explained in terms of the quantum-mechanical treatment of the nuclear-atom model."—E. U. Condon and G. H. Shortley in *THE THEORY OF ATOMIC SPECTRA (Cambridge—Macmillan)*.

*Science News Letter, October 26, 1935*

## FORESTRY

## C.C.C.

● "The Civilian Conservation Corps is a combined social relief and conservation program. It was primarily designed to relieve distress and unemployment. It constitutes the greatest forward impetus that forest conservation has received since the early days of the present century, from President Theodore Roosevelt and his chief forester, Gifford Pinchot. It has provided a great opportunity to accomplish many things in the woods that foresters have wanted to do for years."—Nelson C. Brown in *A GENERAL INTRODUCTION TO FORESTRY IN THE UNITED STATES (John Wiley & Sons)*.

*Science News Letter, October 26, 1935*

## BOTANY

## Rare Normality

● "Of the immense number of actual or potential growing points, as in that part of a tree which is above ground, only a few ever grow under what we call 'normal' conditions. Yet in most plants any bud, except perhaps the flower bud, is capable of producing a shoot, and in many kinds of plants almost any meristematic cell is capable of producing either a shoot or a root."—Otis F. Curtis in *THE TRANSLOCATION OF SOLUTES IN PLANTS (McGraw-Hill)*.

*Science News Letter, October 26, 1935*

## NEW

## Blakiston Books

• •

### Pratt-Manual of Land and Fresh Water Vertebrate Animals of the United States

(Exclusive of Birds) 2nd Edition Revised. 184 Illustrations. Glossary. 416 Pages. Cloth \$6.00.

By Henry Sherring Pratt, Ph.D. (Haverford College). It gives diagnostic descriptions and analytical keys. It defines more precisely known ranges of distribution and reflects numerous changes.

### Pratt-Manual of the Common Invertebrate Animals

(Exclusive of Insects) Revised Edition. 974 Illustrations. Glossary. 854 Pages. Cloth \$7.50.

By Henry Sherring Pratt, Ph.D. (Haverford College). It gives a general synopsis of invertebrates, analytical tables, descriptions of species, habits, distribution, etc.

### Bessey-A Textbook of Mycology

139 Illustrations. 495 Pages. Washable Cloth \$4.00.

By Ernst Atherne Bessey, Professor of Botany. (Michigan State College). A modern textbook on the structure, life-history and classification of the more important groups of parasitic fungi.

### Morrison and Morrison-Experimental Physics

189 Illustrations. 65 Experimental Work Sheets, (Detachable) 235 Pages. Cloth \$2.00

By Edwin Morrison, M.S., Asst. Prof. of Physics, and S. Elisabeth Morrison, B.S., Instructor in Physics (Michigan State College).

### Meredith-Twelve Hours of Hygiene

110 Illustrations. 339 Pages. Cloth \$1.90

By F. L. Meredith, M.D., Professor of Hygiene (Tufts College). Lecturer on Hygiene (Simmons College). It has been developed to meet the requirements of colleges giving courses for one hour a week for a semester.

### Strecker and Ebaugh-Practical Clinical Psychiatry

4th Edition. 60 Illustrations. Glossary. 705 Pages. Fabrikoid \$5.00

By Edward A. Strecker, A.M., Sc.D., M.D. (University of Pennsylvania) and Franklin G. Ebaugh, A.B., M.D. (University of Colorado). It presents a workable knowledge of psychiatry by the case method. It includes a chapter on psychopathological problems of childhood by Dr. Leo Kanner (John Hopkins).

• •

**P. Blakiston's Son & Co., Inc.**  
1012 Walnut St. Philadelphia

AIRCRAFT YEARBOOK FOR 1935—*Aeronautical Chamber of Commerce*, \$3.50.  
 AUTOMOBILES FROM START TO FINISH—Franklin M. Reck—*Crowell*, \$2.  
 THE BLUE BOOK OF DIESEL AND INTERNAL COMBUSTION ENGINES—E. R. Glass—*Ocean Publ. Co.*, \$3.  
 CHROMIUM PLATING—Bauer, Arndt and Krause—*Longmans*.  
 CITY PLANNING AND HOUSING—Werner Hegemann—*Architectural Book*, \$12.\*  
 DEVELOPING AMERICA'S WATERWAYS—Marshall E. Dimock—*U. of Chicago*, \$1.50.  
 DIESEL AND OTHER INTERNAL COMBUSTION ENGINES—Degler—*Amer. Technical Soc.*, \$2.50.  
 ELEMENTARY STRUCTURAL PROBLEMS IN STEEL AND TIMBER (2d ed.)—C. R. Young—*Wiley*, \$4.  
 FIRE FIGHTING—comp. by Ernest W. Williams—*Nichols-Ellis*.  
 THE FLOW OF WATER—G. B. Williams—*Sherwood*, \$4.  
 THE FLOW OF WATER THROUGH ORIFICES—S. R. Beitler—*Ohio State Eng. Exp. Sta.*, 50c.  
 FUEL, SOLID, LIQUID, GASEOUS (4th ed.)—Brame and King—*Longmans*, \$9.\*  
 INDUSTRIAL ELECTRONICS—F. H. Guliksen and E. H. Vedder—*Wiley*, \$3.50.  
 JONES' ESTIMATING TABLES—E. F. Jones—*Domestic Engineering Co.*, \$2.  
 MECHANICAL AND ELECTRICAL EQUIPMENT FOR BUILDINGS—C. M. Gay and Charles Fawcett—*Wiley*, \$5.  
 THE METAL: IRON—H. E. Cleaves and J. G. Thompson—*Engineering Foundation*, \$6.  
 MODERN SURVEYING FOR CIVIL ENGINEERS—H. F. Birchall—*Sherwood*, \$8.  
 OIL BURNER HEATING—*Domestic Engineering Co.*, \$1.  
 PRACTICAL MINE DEVELOPMENT AND EQUIPMENT—Lucien Eaton—*McGraw-Hill*, \$5.  
 THE PREDETERMINATION OF PILING REQUIREMENTS FOR BRIDGE FOUNDATIONS—K. V. Taylor, C. T. Morris and J. R. Burke—*Ohio State Eng. Exp. Sta.*, 25c.  
 PRINCIPLES OF MOTOR FUEL PREPARATION AND APPLICATION, Vol. II—A. W. Nash and D. A. Howes—*Wiley*, \$8.  
 PUBLIC LAND SURVEYS: History, Instructions, Methods—L. O. Stewart—*Collegiate Press*, \$2.25.  
 ROAD AGGREGATES, THEIR USES AND TESTING—B. H. Knight—*Longmans*, \$9.\*  
 SIX WAYS TO FIGURE RADIATION—H. L. Alt—*Domestic Engineering Co.*, \$2.  
 STEEL WIRE; Manufacture and Properties—Bonzel (trans. by K. B. Lewis)—*Engineers Book Shop*, \$15.  
 STRENGTH OF MATERIALS (2d ed.)—E. R. Maurer and M. O. Withey—*Wiley*, \$3.50.

Black race inferiority? "Aryan" superiority?  
 Racial purity? Sterilization? A eugenic program?

A provocative, pioneer study that is stimulatingly different!

## GENETICS AND THE SOCIAL ORDER

By Dr. Mark Graubard  
 research geneticist, Columbia University

"Extremely timely . . . authoritative . . . serviceable . . . readable." DR. H. E. BARNES, N.Y. *World-Telegram*.  
 127 p., 14 diagrams, paper, 50c; cloth, 75c

**TOMORROW, PUBLISHERS**  
 303 Fourth Ave. New York City

TECHNICAL AERODYNAMICS—K. D. Wood—*McGraw-Hill*.  
 THERMODYNAMICS FOR ENGINEERS (2d ed.)—Sir Alfred Ewing—(*Cambridge*) *Macmillan*, \$7.\*

### General Science

THE BOOK OF NATURAL WONDERS—Ellison Hawks—*Loring & Mussey*.  
 COLUMBIA ENCYCLOPEDIA—ed. by Clarke F. Ansley—*Columbia*, \$17.50.  
 FRENCH SCIENCE: And Its Principal Discoveries Since the 17th Century—Maurice Caullery—*French Institute*, \$1.25.  
 GENERAL CHEMISTRY FOR COLLEGES—H. T. Briscoe—*Houghton Mifflin*, \$3.75.  
 HISTORY OF SCIENCE, TECHNOLOGY AND PHILOSOPHY IN THE 16TH AND 17TH CENTURIES—A. Wolf—*Macmillan*, \$7.  
 INTRODUCTION TO SCIENTIFIC GERMAN—O. Koischwitz—*Crofts*, \$1.50.\*  
 LABORATORY EXERCISES FOR MY OWN SCIENCE PROBLEMS—Hunter and Whitman—*Amer. Book.*, 44c.  
 LABORATORY EXERCISES FOR SCIENCE IN OUR SOCIAL LIFE—Hunter and Whitman—*Amer. Book*, 48c.  
 LABORATORY EXERCISES FOR SCIENCE IN OUR WORLD OF PROGRESS—Hunter and Whitman—*Amer. Book*, 60c.  
 NEW BIBLE OF SCIENCE—Joseph J. Interland—*Christopher*, \$3.  
 NEW CHAMPLIN CYCLOPEDIA FOR YOUNG FOLKS, Vols. 1 to 3 (rev.), Vol. 5.—John D. Champlin—*Henry Holt*, Vol. 1, \$5; 2, \$5; 3, \$6; 5, \$7.50.  
 OUTPOSTS OF SCIENCE—Bernard Jaffe—*Simon & Schuster*, \$3.50.  
 PHILOSOPHY AND THE CONCEPTS OF MODERN SCIENCE—Oliver L. Reiser—*Macmillan*, \$3.50.  
 READINGS IN SCIENTIFIC AND TECHNICAL GERMAN—Paul H. Curtis—*Holt*, \$1.75.  
 SCIENCE: A New Outline—J. W. N. Sullivan—*Nelson*, \$2.  
 SCIENCE AND EDUCATION IN THE U. S. S. R.—A. Pinkevich—*Putnam's*, \$1.75.  
 SCIENCE AND RELIGION—N. B. Harman—*Macmillan*, \$1.50.  
 SCIENCE AND RELIGION—Bertrand Russell—*Holt*, \$1.25.  
 SCIENCE AND THE SUPERNATURAL—G. B. S. Haldane and Arnold Lunn—*Sheed & Ward*, \$2.50.  
 SHORT HISTORY OF SCIENCE—Charles Singer—*Oxford*, \$2.50.  
 SIMPLE SCIENCE—Julian Huxley and E. N. da C. Andrade—*Harper*, \$3.50.  
 STUDIES IN THE LITERATURE OF NATURAL SCIENCE—J. M. Drachman—*Macmillan*, \$4.  
 A STUDY-BOOK IN GENERAL SCIENCE (teacher's ed.)—Beauchamp and Miller—*Scott, Foresman*, 92c.  
 A STUDY-BOOK IN GENERAL SCIENCE: for use with Everyday Problems in Science—Beauchamp and Miller—*Scott, Foresman*, 80c.  
 TECHNICAL AND SCIENTIFIC ENCYCLOPAEDIA (3 vols.)—ed. by C. F. Tweney and I. P. Shirshov—*Macmillan*, \$21.  
 TEXTBOOK ON NATURAL SCIENCE—S. H. Williams—*U. of Pittsburgh*.  
 TREES, STARS AND BIRDS (rev.)—E. L. Moseley—*World Book*, \$1.60.  
 THE UNFINISHED BUSINESS OF SCIENCE—C. C. Furnas—*Reynal & Hitchcock*, \$3.  
 UNSOLVED PROBLEMS OF SCIENCE—A. W. Haslett—*Macmillan*, \$3.\*  
 WORKBOOK MANUAL FOR FIRST YEAR SCIENCE—J. C. Hessler and H. G. Shoudy—*Sanborn*, 80c.

**5** new or recent books of science—to read and enjoy . . . to teach or to study . . . NEW PLAN texts at the University of Chicago.

### A MATHEMATICIAN EXPLAINS

By Mayme I. Logsdon

An informal explanation of the nature of mathematics, the meaning of deductive logic, and its practical value in everyday life. \$1.50, postpaid, \$1.60.

### THE STORY OF THE PLANT KINGDOM

By Merle C. Coulter

Essentials of botanical science told for the enjoyment of plant life or to lay a foundation for advanced study. \$2.50, postpaid, \$2.60.

### FROM GALILEO TO COSMIC RAYS

By Harvey Brace Lemon

"At last a delightful textbook," acclaimed the *New York Herald-Tribune*. "An extraordinary and notable volume; a textbook of one of the most abstruse of the sciences that can actually be read, enjoyed and depended upon by student and layman alike . . .": *New Republic*. Hundreds of illustrations, including stereoscopic photographs. With stereoscope \$5.00, boxed; postpaid, \$5.25

### EXPLORING IN PHYSICS

By Reginald J. Stephenson

A manual providing stimulating problems to supplement *From Galileo to Cosmic Rays*. Paper bound. \$1.50, postpaid, \$1.60.

### MAN AND THE VERTEBRATES

By Alfred S. Romer

This story of man's evolution has been lauded by the *New York Times* for its "conversational quality," by the *American Journal of Science* as "one of the best of the recent books on the evolution of the vertebrates." \$3.00, postpaid \$3.15.

THE UNIVERSITY OF CHICAGO PRESS  
 5750 Ellis Avenue, Chicago, Ill.





### CHILD OF THE EARTH

Enlarge almost any insect photographically and its looks formidable. Consider, for instance, this harmless-enough creature of our Southwest, known to Mexicans as "nina de terra" and to Americans as the "Jerusalem cricket." Photo by L. A. Wilke.

### Geography

- ARCTIC ADVENTURE—Peter Freuchen—*Farrar & Rinehart*, \$3.  
 ASIA (new enlarged ed.)—L. Dudley Stamp—*Dutton*, \$8.\*  
 AN ATLAS OF CHINA—Albert A. Herrmann—*Harvard*, \$5.  
 THE BACKGROUND OF GEOGRAPHY—Margaret Whiting Spilhaus—*Lippincott*, \$2.50.  
 BERING'S VOYAGES. 2 vols.—F. A. Golder—*Amer. Geographical Soc.*, \$4.

### A NEW BOOK

Second Edition of

## FUNDAMENTALS OF RADIO

(426 pages 6" x 9", 430 figures)

By Professor R. R. RAMSEY, Ind. Univ.  
 Revised, enlarged, repaged, reprinted, new cover



New subjects Multi-electrode Tubes; A, B and C amplifiers; and Cathode Ray Television. Radio theory and practice brought up to May, 1935. Problems and questions on each chapter. "The book is especially complete and valuable in the practical information it contains and in the full descriptions of apparatus. The teacher will find it a compact guide to modern practice." *Proc. I.R.E.*

## EXPERIMENTAL RADIO

(255 pages, 168 figures, 128 experiments.)

A laboratory manual of radio experiments.  
 By the same author.

The book is actually a group of some 128 experiments covering most every imaginable phase of radio within the range of the average experimenter.  
 The original radio manual of experiments. You need these books in your library. Prices: Fundamentals \$3.50; Experimental \$2.75 post paid.

Your check, postal order or C.O.D. brings 'em  
 RAMSEY PUBLISHING CO.,  
 Bloomington Indiana

- COSTA RICA AND CIVILIZATION IN THE CARIBBEAN—C. L. Jones—*U. of Wisconsin*, \$1.50.  
 DISCOVERY — Richard E. Byrd — *Putnam's* \$3.75.  
 ECONOMIC GEOGRAPHY OF ASIA — D. R. Bergsma—*Prentice-Hall*, \$5.  
 EXPLORING TODAY — Lincoln Ellsworth — *Dodd*, \$1.50.  
 FUNDAMENTALS OF ECONOMIC GEOGRAPHY —N. A. Bengtson and Willem Van Royen—*Prentice-Hall*, \$5.  
 THE GASPE—John Mason Clarke—*Yale*.  
 GEOGRAPHY ESSENTIALS — Murphy—*Globe*, 53c.  
 GEOGRAPHY OF EUROPE—Chomsky and Josephson—*Globe*, 34c.  
 JOURNAL OF A VOYAGE BETWEEN CHINA AND THE NORTHWESTERN COAST OF AMERICA, MADE IN 1804 BY WILLIAM SHALER (reprint)—*Saunders Studio Press*, \$3.75.  
 JOURNEYS AROUND THE WORLD—D. C. Ridgley—*McKnight*, 20c.  
 MEASURING ETHIOPIA AND FLIGHT INTO ARABIA—C. S. Coon—*Little, Brown*, \$2.50.  
 MID-ICE—Johannes Georgi (trans. by F. H. Lyon)—*Dutton*, \$3.75.  
 NANGA PARBAT ADVENTURES: A Himalayan Expedition—Fritz Bechtold (trans. by H. E. G. Tyndale)—*Dutton*, \$3.  
 NORTH TO THE ORIENT — Anne Morrow Lindbergh—*Harcourt*, \$2.50.  
 OUR HOME STATE AND CONTINENT—Brigham and McFarlane—*Amer. Book*, Nebr. ed., \$1.32, Colo. and Wyo. eds.  
 OUR HOME STATE AND THE NEW WORLD—Brigham and McFarlane — *Amer. Book*. Nebr. ed., \$1.52, Utah ed., \$1.52.  
 OUR HOME STATE, NEW YORK—Brigham and McFarlane—*Amer. Book*, 24c.  
 AN OUTLINE OF GEOGRAPHY—Preston E. James—*Ginn*, \$3.  
 QUEST FOR POLAR TREASURES—Jan Welzl—*Grosset*, \$1.  
 SAHARA. THE GREAT DESERT—E. F. Gautier—*Columbia*, \$3.75.

- STORY MAP OF ENGLAND—Wm. E. Vogelback—*Colortext*, 35c.  
 STORY MAP OF SCOTLAND—Wm. E. Vogelback—*Colortext*, 35c.  
 STORY MAP OF SPAIN—Wm. E. Vogelback—*Colortext*, 35c.  
 STUDIES IN ECONOMIC GEOGRAPHY—D. C. Ridgley and J. S. Gibson—*McKnight*, 48c.  
 TEN TO ONE: A.D. 1596-1935—Hendrik Willem Van Loon—*Harcourt*, \$2.50.  
 THIS BUSINESS OF EXPLORING—Roy Chapman Andrews—*Putnam's* \$3.50.  
 THROUGH FORBIDDEN TIBET—Harrison Forman—*Longmans*, \$3.50.  
 THE VOYAGE OF THE "CHELYUSKIN"—by members of the expedition (trans. by Alec Brown)—*Macmillan*, \$3.50.  
 WORKBOOK FOR HOW THE WORLD LIVES AND WORKS—Brigham and McFarlane—*Amer. Book*.

### Geology

- AUTOBIOGRAPHY OF EARTH—John Hodgdon Bradley—*Coward-McCann*, \$3.  
 THE BOOK OF MINERALS—A. C. Hawkins—*Wiley*, \$1.50.  
 BOOK OF PREHISTORIC ANIMALS—Raymond L. Ditmars—*Lippincott*, \$2.  
 BRUNNER FOCAL DEPTH - TIME - DISTANCE CHART—G. J. Brunner and J. B. MacEwan—*Wiley*, \$2.  
 DELTA AND ESTUARY OF THE COLORADO—Godfrey Sykes—*Carnegie Institution of Washington*.  
 DOWN TO EARTH: An introduction to Geology—Carey Croneis and W. C. Krumbein—*U. of Chicago*, trade ed., \$5, text ed., \$3.75.  
 FOSSILS; What They Tell Us of Plants and Animals of the Past—Richard S. Lull—*University Soc.*  
 GEOLOGY OF NATURAL GAS—47 authors (ed. by Henry A. Ley)—*Amer. Ass'n. of Petroleum Geologists*, \$6.  
 HISTORICAL GEOLOGY — Antillean-Caribbean Region—Charles Schuchert—*Wiley*, \$10.  
 THE HISTORY OF THE UPPER MISSISSIPPI RIVER IN LATE WISCONSIN AND POST-GLACIAL TIME—W. S. Cooper—*U. of Minnesota*, \$4.\*  
 HOT SPRINGS OF THE YELLOWSTONE NATIONAL PARK—E. T. Allen and Arthur L. Day—*Carnegie Institution of Washington*.  
 MAMMOTH CAVE—Stoneall O'Brien—*Orthobvis*, \$1.  
 MANUAL OF GEOLOGY—E. T. Apfel—*Edwards Bros.*  
 OUTLINE OF THE PRINCIPLES OF GEOLOGY (rev.)—R. M. Field—*Barnes & Noble*, 75c.  
 PALEONTOLOGY—W. H. Twenhofel and Robert R. Schrock—*McGraw-Hill*.  
 THE SECOND HISTORICAL ERUPTION OF MONT PELEE, MARTINIQUE, F. W. I.—F. A. Perret—*Carnegie Institution of Washington*.  
 TECTONIC ESSAYS: MAINLY ALPINE—E. B. Bailey—*Oxford*, \$4.25.

### Mathematics

- ALGEBRA SECOND COURSE—Kingsbury and Wallace—*Bruce*.  
 ANALYTIC GEOMETRY—C. H. Sisam—*Holt*.  
 ARITHMETIC (rev.)—*Pergande*, \$2.50.  
 ART AND MATHEMATICS — N. A. Court—*Scripta Mathematica*, 20c.  
 COMMERCIAL ALGEBRA (College Course)—B. H. Crenshaw, T. M. Simpson and Z. M. Pirenian—*Prentice-Hall*, \$2.  
 DESCRIPTIVE GEOMETRY—Frank W. Bubb—*Macmillan*, \$2.50.\*  
 DIAGNOSTIC TEST IN THE MATHEMATICS OF PHYSICS (for use as preliminary to A RE-

VIEW OF PRE-COLLEGE MATHEMATICS)—Lapp—*Scott, Foresman*, 50c.  
 ELEMENTS OF STATISTICS—H. T. Davis and W. F. C. Nelson—*Principia*, \$4.  
 EMMY NOETHER—Hermann Weyl—*Scripta Mathematica*, 35c.  
 ESSENTIALS OF BUSINESS MATHEMATICS—R. Robert Rosenberg—*Gregg*, \$1.20.  
 FINANCIAL MATHEMATICS—A. W. Richeson—*Prentice-Hall*, \$2.50.  
 FIRST AND SECOND-YEAR ALGEBRA, COMBINED—Hawkes, Luby and Touton—*Ginn*, \$1.60.  
 FIRST COURSE IN ALGEBRA—H. C. Barber and E. P. Johnson—*Houghton Mifflin*, \$1.24.  
 A FIRST COURSE IN DIFFERENTIAL EQUATIONS—N. Miller—*Oxford*, \$2.50.  
 HUMANIZED GEOMETRY—J. Herbert Blackhurst—*Des Moines Univ.*  
 INTERPOLATORY FUNCTION THEORY—J. M. Whittaker—(Cambridge) *Macmillan*, \$2.\*  
 AN INTRODUCTION TO THE THEORY OF THE FUNCTIONS OF A COMPLEX VARIABLE—E. T. Copson—*Oxford*, \$8.50.  
 INTRODUCTORY COLLEGE MATHEMATICS—William E. Milne and David R. Davis—*Ginn*, \$3.  
 THE LIFE OF LEONARD EULER — Rudolph Langer—*Scripta Mathematica*, 25c.  
 LIVING ARITHMETIC—G. D. Strayer and C. B. Upton—*Amer. Book*.  
 A MATHEMATICIAN EXPLAINS—Mayme I. Logsdon—*U. of Chicago*, \$1.50.  
 MATHEMATICS AT WORK—G. H. Van Tuyl—*Amer. Book*, \$1.  
 MATHEMATICS FOR EVERYDAY USE—J. C. Stone and V. S. Mallory—*Sanborn*, \$1.28.  
 MATHEMATICS FOR SCIENCE STUDENTS—L. C. Plant and T. R. Running—*Edwards Bros.*  
 MATHEMATICS IN LIFE—Unit C: Drawing to Scale—Schorling-Clark—*World Book*, 24c.  
 MODERN ALGEBRA WORKBOOK—Friedman—*Globe*, 28c.  
 MODERN ARITHMETIC EXERCISES (7th Year)—Roantree—*Globe*, 34c.  
 MODERN ARITHMETIC EXERCISES (8th Year)—Jaffe—*Globe*, 34c.  
 NEW NUMBERS — F. Emerson Andrews—*Harcourt*, \$2.  
 NEW SECOND COURSE IN ALGEBRA—Milne and Downey—*Amer. Book*, \$1.32.  
 PRACTICAL JUNIOR MATHEMATICS—Strayer and Upton — *Amer. Book*, Book I, 84c, Book II, 92c.  
 PROBABILITY AND RANDOM ERRORS—W. N. Bond—*Longmans*, \$3.75.  
 RESEARCHES ON WARING'S PROBLEMS—L. E. Dickson—*Carnegie Institution of Washington*, \$1.50.

SELF-TEACHING ARITHMETIC PROBLEMS (Upper Grades)—Sills—*Globe*, 34c.  
 SELF-TEACHING GEOMETRY — Leventhal — *Globe*, 53c.  
 STATISTICAL PROCEDURES AND THEIR MATHEMATICAL BASES—C. C. Peters and W. R. Van Voorhis—*Penn State College*.  
 STUDY ARITHMETIC, Grade 4—Knight, Studebaker, Ruch, and Findley—*Scott, Foresman*, 76c.  
 STUDY ARITHMETIC, Grade 5—Knight, Studebaker and Ruch—*Scott, Foresman*, 76c.  
 TABLES OF HIGHER MATHEMATICAL FUNCTIONS, Vol. 2—H. T. Davis—*Principia*, \$6.50.

### Medicine

A. B. C. OF ENDOCRINES—Jennie Gregory—*Williams & Wilkins*, \$3.  
 ABORTION — F. E. Taussig — C. V. Mosby, \$8.\*  
 AGENTS OF DISEASE AND HOST RESISTANCE—Frederick P. Gay—C. C. Thomas, \$10.  
 THE ANATOMY OF THE NERVOUS SYSTEM—Stephen W. Ranson—*Saunders*, \$6.50.  
 APPLIED MEDICAL BACTERIOLOGY—Thurman B. Rice—*Saunders*.  
 ASTHMA: A Symposium — *Chicago Medical Book Co.*  
 ATLAS OF HUMAN ANATOMY—Frohse and Broedel—*Barnes & Noble*, paper \$1.25, cloth \$2.  
 ATLAS OF PATHOLOGICAL ANATOMY (Vol. 2)—ed. by Martin—*Williams & Wilkins*.  
 THE BACTERIOLOGY OF TYPHOID, SALMONELLA, AND DYSENTERY INFECTIONS AND CARRIER STATES—L. C. Havens—*Commonwealth Fund*, \$1.75.\*  
 CHEMISTRY IN THERAPEUTICS — Walter B. Guy—*Huntsman*, \$3.  
 CLASSICAL CONTRIBUTIONS TO OBSTETRICS AND GYNECOLOGY—Herbert Thomas—C. C. Thomas.  
 CLINICAL DIAGNOSIS BY LABORATORY METHODS—J. C. Todd and A. H. Sanford—*Saunders*, \$6.  
 COMPARATIVE ANATOMY OF THE NERVOUS SYSTEM OF VERTEBRATES INCLUDING MAN (2 vols.)—C. U. Ariens Kappers and others—*Macmillan*, \$16.  
 DIAGNOSIS AND TREATMENT OF DISEASES OF THE HEART—H. A. Christian—*Oxford*, \$6.  
 DIAGNOSIS AND TREATMENT OF DISORDERS OF METABOLISM—J. S. McLester—*Oxford*, \$5.  
 DIAGNOSIS AND TREATMENT OF VARIATIONS IN BLOOD PRESSURE—H. O. Mosenthal—*Oxford*, \$9.  
 DISEASES OF THE NAILS—V. Pardo-Castello—C. C. Thomas.  
 THE DOCTOR AND THE PUBLIC—J. P. Warbasse—*Hoeber*, \$5.  
 THE DOCTOR'S BILL—Hugh Cabot—*Columbia*, \$3.  
 A DOCTOR'S ODYSSEY: A Sentimental Record of Le Roy Crummer—A. Gaylord Beaman—*Johns Hopkins*.  
 ETHICS OF NURSING — Arrah B. Evarts—*Burgess*, \$1.45.  
 FREE MEDICAL CARE—ed. by E. C. Buehler—*Noble*, \$2.  
 THE GLANDS OF LIFE—Herman H. Rubin—*Bellaire*, \$2.  
 INJURY AND INCAPACITY — Griffith — *Williams & Wilkins*, \$5.  
 AN INTRODUCTION TO HUMAN ANATOMY—Clyde Marshall—*Saunders*, \$2.50.  
 JOHN WHITRIDGE WILLIAMS: Academic Aspects and Bibliography—J. Morris Slemmons—*Johns Hopkins*.

## Recent McGRAW-HILL Science Books

*Fletcher, Mosbacher  
and Lehman's*

### UNIFIED PHYSICS— Matter in Motion

A physics textbook for high school pupils, treating physics as one unified science instead of five separate sciences, and teaching the subject as the science of matter in motion.

*In Press*

*Skilling's*

### TOURS THROUGH THE WORLD OF SCIENCE

Through the fiction of travel, this text-book takes the 8th or 9th grade pupil on nineteen tours through the world of science, making him ask why, how, when and where.

\$1.70

*Bernhard, Bennett  
and Rice's*

### HANDBOOK OF THE HEAVENS

A simple introduction to the study of the stars, written for amateurs by the members of the Junior Astronomy Club of the American Museum of Natural History, New York.

\$1.00

*Knight's*

### BEFORE THE DAWN OF HISTORY

Half by picture and half by story this book tells the story of pre-historic animals and men, reproducing many of the paintings for which this author is noted, showing early men and animals in their natural environments.

\$2.50

*Write for further information*

**McGRAW-HILL  
BOOK COMPANY, Inc.**  
 330 W. 42nd St., New York, N. Y.

### Van Riemsdyck' Bookservice

15 W. 45th Street, New York City

All books and periodicals published in the Netherlands, Dutch East and West Indies

*Old and new books on these countries*

German books published in Holland



LIVING ALONG WITH HEART DISEASE—Louis Levin—*Macmillan*, \$1.50.  
 MAN, THE UNKNOWN—Alexis Carrel—*Harper*, \$3.50.  
 MANUAL OF PRACTICAL ANATOMY, 3 vols. (9th ed.)—Cunningham—*Oxford*, \$3.85 each.  
 MANUAL OF SURGICAL ANATOMY (4th ed.)—Beesly & Johnston—*Oxford*, \$6.50.  
 MEDICAL MYCOLOGY—C. V. Mosby, \$10.  
 MODERN HOME MEDICAL ADVISER—ed. by Morris Fishbein—*Doubleday, Doran*, \$9.50.  
 NEW PATHWAYS FOR CHILDREN WITH CEREBRAL PALSY—Gladys G. Rogers and Leah Thomas—*Macmillan*, \$2.50.  
 OXYGEN AND CARBON DIOXIDE THERAPY—Argyll Campbell and E. P. Pulton—*Oxford*, \$5.50.  
 THE PATIENT'S DILEMMA: A Public Trial of the Medical Profession—S. A. Tannenbaum and P. M. Branden—*Coward-McCann*, \$2.50.  
 PEDIATRIC TREATMENT—Philip S. Potter—*Macmillan*, \$5.  
 PRINCIPLES AND PRACTICE OF MEDICINE—Sir William Osler and Thomas McCrae—*Appleton*, \$8.50.  
 PROCEDURE IN EXAMINATION OF THE LUNGS (2d ed.)—A. F. Kraetzer—*Oxford*, \$2.  
 QUACK, QUACK!—Leonard Woolf—*Harcourt*, \$2.  
 RADIOLOGICAL ATLAS OF CHRONIC RHEUMATIC ARTHRITIS (The Hand)—S. G. Scott—*Oxford*, \$8.75.  
 RUSSELL A. HIBBS, Pioneer in Orthopedic Surgery—G. M. Goodwin—*Columbia*, \$2.  
 THE SCIENCE AND ART OF NURSING—Rothweiler, Coulter and Jansey—F. A. Davis, \$3.  
 SOCIALIZATION OF MEDICINE—comp. by Julia Emily Johnsen—H. W. Wilson, 90c.  
 THE STOMACH AND DUODENUM—G. B. Eusterman and D. C. Balfour—*Saunders*, \$10.  
 SURGERY: QUEEN OF THE ARTS AND OTHER PAPERS AND ADDRESSES—W. D. Haggard—*Saunders*.  
 A TERMINOLOGY OF OPERATIONS OF THE UNIVERSITY OF CHICAGO CLINICS—Hilger P. Jenkins—U. of Chicago, \$1.50.\*  
 A TEXTBOOK OF ANATOMY AND PHYSIOLOGY—J. F. Williams—*Saunders*, \$2.75.  
 THREE YEARS OF HCl THERAPY—Burr Ferguson, W. B. Guy and others—*Huntsman*, \$5.  
 VETERINARY SCIENCE—Thompson—*Williams & Wilkins*, \$4.  
 THE WOMAN ASKS THE DOCTOR—Emil Novak—*Williams & Wilkins*, \$1.50.

## SOME ENIGMAS OF MODERN SCIENCE

by Guy Clinton

asks for a reconsideration of some currently accepted postulates and theories. Your bent for philosophical thought will be stimulated. Price: cloth bound, 80c; paper bound, 60c.

Published by author

Send orders to Retail Book Department,  
 Science News Letter, 2101 Constitution  
 Avenue, Washington, D. C.

## Physics

ANECDOTAL HISTORY OF THE SCIENCE OF SOUND—Dayton Clarence Miller—*Macmillan*, \$2.50.  
 COLLEGE PHYSICS—C. E. Mendenhall, A. S. Eve, D. A. Keys—*Heath*, \$3.76.  
 ELEMENTARY PHOTOGRAPHIC CHEMISTRY (rev.)—*Eastman*, 50c.  
 EXPERIMENTAL PHYSICS—Edwin and S. Elisabeth Morrison—*Blakiston's*, \$2.  
 EXPLORING IN PHYSICS (manual to accompany FROM GALILEO TO COSMIC RAYS by Harvey B. Lemon)—Reginald J. Stephenson—U. of Chicago, \$1.50.  
 THE FREEDOM OF MAN—Arthur H. Compton—*Yale*, \$2.  
 FUGUE IN CYCLES AND BELS—John Mills—*Van Nostrand*.  
 FUNDAMENTALS OF PHOTOGRAPHY (rev.)—*Eastman*, \$1.  
 INTRODUCTION TO QUANTUM MECHANICS, WITH APPLICATIONS TO CHEMISTRY—Linus C. Pauling and E. Bright Wilson, Jr.—*McGraw-Hill*, \$5.  
 OUTLINE OF FIRST YEAR COLLEGE PHYSICS—Clarence Bennett—*Barnes and Noble*, 75c.  
 PHOTOGRAPHY OF COLORED OBJECTS (rev.)—*Eastman*, \$1.  
 PHOTOMICROGRAPHY (rev.)—*Eastman*, \$1.  
 PHYSICS—Erich Hausmann and Edgar P. Slack—*Van Nostrand*, \$4.  
 PRESS PHOTOGRAPHY—James Kinkaid—*Amer. Photographic*, \$2.50.  
 PROFITABLE ENLARGING AND THE MINIATURE CAMERA—H. Rossiter Snyder—*Rossiter Snyder Publ. Co.*  
 PSYCHOMETRIC NOTES AND TABLES—Elmer Torok—*North American Rayon Corp.*  
 SOUND—F. R. Watson—*Wiley*.  
 THEORETICAL PHYSICS (new ed.)—Leigh Page—*Van Nostrand*.  
 THEORY OF ATOMIC SPECTRA—E. U. Condon and G. H. Shortley—(*Cambridge*) *Macmillan*, \$11.  
 UNIFIED PHYSICS—G. L. Fletcher and others—*McGraw-Hill*.  
 WEATHER AND CLIMATE—C. E. Koeppe and D. C. Ridgley—*McKnight*, 80c.  
 WRITTEN LIGHT FILTERS (rev.)—*Eastman*, 50c.

## Physiology and Health

APPLIED NUTRITION—Esther E. Mauer and Estelle Hawley—C. C. Thomas.  
 BACTERIA IN RELATION TO THE MILK SUPPLY—C. H. Chalmers—*Longmans*, \$2.25.  
 DIET AND PHYSICAL EFFICIENCY—H. W. Haggard and L. A. Greenberg—*Yale*, \$3.  
 EXPERIMENTAL PHYSIOLOGY—Visscher and Smith—*Lea & Febiger*, \$3.25.  
 FOOD VALUES AT A GLANCE—Violet Plimmer—*Longmans*.  
 FURNEAUX'S HUMAN PHYSIOLOGY (new ed. rev. by W. A. M. Smart)—*Longman's*, \$2.  
 GLANDS AND EFFICIENT BEHAVIOR—Florence Mateer—*Appleton*, \$2.50.  
 GROWING SUPERIOR CHILDREN—I. Newton Kugelmass—*Appleton*, \$3.50.  
 THE GROWTH OF THE SURFACE AREA OF THE HUMAN BODY—Edith Boyd—U. of Minnesota, \$5.  
 HANDBOOK OF PHYSIOLOGY (34th ed.)—Halliburton and McDowall—*Blakiston's*, \$5.50.  
 HEALTH STORIES, Book 3—Towse, Matthews and Gray—*Scott, Foresman*, 76c.  
 HEALTHFUL LIVING—H. S. Diehl—*Whittlesey*, \$2.50.  
 THE HUMAN FOOT: Its Evolutionary Devel-

opment, Physiology and Functional Disorders—Dudley J. Morton—*Columbia*, \$3.  
 INDIVIDUAL EXERCISES—Stafford, DeCook and Picard—A. S. Barnes, \$1.  
 AN INTRODUCTION TO PUBLIC HEALTH—Harry S. Mustard—*Macmillan*, \$3.  
 LENGTH OF LIFE—Dublin and Lotka—*Ronald Press*.  
 MEDICAL PHYSIOLOGY—R. A. Cutting—*Edwards Bros.*  
 THE NEW PHYSICAL EDUCATION—G. Johnson—*Burgess*, \$1.60.  
 OVERCOMING SLEEPLESSNESS—Charles Weschcke—*Book Masters*, \$1.  
 PERSONAL AND COMMUNITY HEALTH—C. E. Turner—C. V. Mosby, \$3.  
 THE PHYSIOLOGY OF PHYSICAL EDUCATION—P. M. Dawson—*Williams & Wilkins*.  
 PLAY: RECREATION IN A BALANCED LIFE—Austen Fox Riggs—*Doubleday, Doran*, \$2.50.  
 PUBLIC HEALTH ADMINISTRATION IN THE UNITED STATES—Wilson G. Smillie—*Macmillan*, \$3.50.  
 REBUILDING OF MANCHESTER—Simon and Inman—*Longmans*, \$2.  
 THE RELATION OF PHYSICAL GROWTH TO DEVELOPMENTAL AGE IN BOYS—T. F. Carey—*Catholic Univ.*, \$1.  
 VITALITY—Elizabeth Sloan Chesser—*Oxford*, \$2.50.  
 THE VITAMINS IN THEORY AND PRACTICE—L. J. Harris—(*Cambridge*) *Macmillan*, \$3.

## Psychology and Psychiatry

ADULT INTELLIGENCE: A Psychological Study of Test Performance—Theodore Weisenburg, Anne Roe and Katharine E. McBride—*Commonwealth Fund*, \$1.40.  
 APHASIA: A Clinical and Psychological Study—Theodore Weisenburg and Katharine E. McBride—*Commonwealth Fund*, \$5.  
 BEHAVIOR DEVELOPMENT IN INFANTS: Published for the Josiah Macy, Jr., Foundation—Evelyn Dewey—*Columbia*, \$3.75.  
 BEHAVIOR, KNOWLEDGE, FACT—A. F. Bentley—*Principia*, \$3.50.  
 A BRIEF GENERAL PSYCHOLOGY—Gardner Murphy—*Harper*, \$3.25.  
 THE CEREBROSPINAL FLUID AND ITS RELATION TO BLOOD—Solomon Katzenelbogen—*Johns Hopkins*.  
 COMPARATIVE PSYCHOLOGY, Vol I: Principles and Methods—C. J. Warden, T. N. Jenkins and L. H. Warner—*Ronald*, \$4.50.  
 THE DANGEROUS AGE IN MEN—Chester Tilton Stone—*Macmillan*, \$1.75.  
 DESTINY AND DISEASE IN MENTAL DISORDERS—C. Macfie Campbell—*Norton*, \$2.  
 THE DEVELOPMENT OF ALFRED BINET'S PSYCHOLOGY—Edith J. Varon—*Psychological Review*, \$1.75.  
 DIAGNOSIS AND TREATMENT OF BEHAVIOR PROBLEM CHILDREN—Harry J. Baker and Virginia Traphagen—*Macmillan*, \$2.50.  
 AN ENQUIRY INTO PROGNOSIS IN THE NEUROSES—T. A. Ross—(*Cambridge*) *Macmillan*, \$3.50.\*  
 THE EVOLUTION OF MODERN PSYCHOLOGY—Richard Müller-Freienfels (trans. with introduction by W. Béran Wolfe)—*Yale*, \$5.  
 THE FOUNDATIONS OF HUMAN NATURE—J. M. Dorsey—*Longmans*, \$2.80.  
 GENERAL PSYCHOLOGY—Edward Brennan—*Edwards Bros.*  
 THE GIRL IN THE RURAL FAMILY—Nora Miller—U. of N. Carolina, \$1.50.  
 GROWTH, A Study of Johnny and Jimmy—Myrtle B. McGraw—*Appleton*, \$3.50.

# ● RADIO

Tuesday, November 5, 4:30 p. m., E.S.T.  
AMATEUR ASTRONOMY, by James  
Stokley, The Franklin Museum, Phil-  
adelphia.

In the Science Service series of radio ad-  
dresses given by eminent scientists over  
the Columbia Broadcasting System.

- GUIDING OUR CHILDREN—Wilson—*Globe*, \$1.50.\*
- HANDBOOK OF GENERAL EXPERIMENTAL PSYCHOLOGY—Ed. by Carl Murchison—*Clark U. Press*, \$6.
- HANDBOOK OF SOCIAL PSYCHOLOGY—Ed. by Carl Murchison—*Clark U. Press*, \$6.
- INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY—P. F. Finner—*Prentice-Hall*, \$2.
- INTRODUCTION TO SPACE PERCEPTION—Carr—*Longmans*, \$2.40.
- KNOW THYSELF: A Study in Mental Qualities—John Potts—*Dorrance*, \$3.
- THE MEDICAL MAN AND THE WITCH DURING THE RENAISSANCE—Gregory Zilboorg—*Johns Hopkins*, \$2.50.
- MENTAL ALERTNESS TESTS (rev.)—*Per-gande*, \$2.50.
- NEUROLOGY AND PSYCHIATRY FOR NURSES—F. P. Moersch—*Burgess*.
- NEW MINDS FOR OLD—Esme Wingfield-Stratford—*Macmillan*, \$3.
- THE NIGHTMARE DREAM—Hulsey Cason—*Psychological Review*, 75c.
- OUTLINE OF GENERAL PSYCHOLOGY—Fryer and Henry—*Barnes and Noble*, 75c.
- PARENT PREFERENCES OF YOUNG CHILDREN—Margaret Simpson—*Teachers College, Columbia*, \$1.50.
- PRACTICAL CLINICAL PSYCHIATRY (4th ed.)—Strecker and Ebaugh—*Blakiston's*, \$5.
- PRINCIPLES OF ABNORMAL PSYCHOLOGY (rev.)—Edmund S. Conklin—*Henry Holt*.
- PROPAGANDA, Its Psychology and Technique—Leonard W. Doob—*Henry Holt*.
- PSYCHOLOGICAL RACKETEERS—Dorothy H. Yates—*Humphries*, \$2.
- PSYCHOLOGY FOUNDED IN ANIMAL BEHAVIOR—N. R. F. Maier, and T. C. Schneirla—*McGraw-Hill*.
- PSYCHOLOGY IN BUSINESS AND INDUSTRY—J. G. Jenkins—*Wiley*, \$3.
- THE PSYCHOLOGY OF RADIO—Hadley Cantril and Gordon W. Allport—*Harper*, \$3.
- RELIGION AND THE SCIENCES OF LIFE—William McDougall—*Duke Univ.*, \$3.
- ROOTS OF CRIME—Franz Alexander and William Healy—*Knopf*, \$3.
- SANITY FIRST: The Art of Sensible Living—Joseph Jastrow—*Greenberg*, \$2.50.
- SCIENCE AND THE HUMAN TEMPERAMENT—Erwin Schrodinger—*Norton*, \$2.50.
- SCIENCE VERSUS CRIME—Henry Morton Robinson—*Bobbs-Merrill*, \$2.50.
- THE SUBNORMAL MIND—C. Burt—*Oxford*, \$3.75.
- TWINS: A Study in Heredity and Environment—H. H. Newman and others—*U. of Chicago*.
- UNDERSTANDING YOURSELF: Mental Hygiene of Personality—E. R. Groves—*Greenberg*, \$2.50.
- THE VECTORS OF MIND: Multiple-Factor Analysis for the Isolation of Primary Traits—L. L. Thurstone—*U. of Chicago*, \$4.
- VISUAL OUTLINE OF PSYCHOLOGY—Hevner—*Longmans*, 75c.

VOCATIONAL GUIDANCE IN ACTION—John A. Fitch—*Columbia*, \$2.75.

WAYWARD YOUTH—August Aichhorn—*Viking*, \$2.75.

WISH AND WISDOM: Chapters in Erratic Psychology—Joseph Jastrow—*Appleton*, \$3.50.

## Zoology

- ALL ABOUT REPTILES—W. S. Berridge—*McBride*, \$2.50.
- ALONG THE HILL—Carroll Lane Fenton—*Reynal & Hitchcock*, \$1.25.
- THE BOOK OF THE SEASHORE—H. J. Shannon—*Doubleday, Doran*, \$2.50.
- BRIEF DIRECTIONS IN HISTOLOGICAL TECHNIQUE—E. R. Becker and R. L. Roudabush—*Collegiate Press*, \$1.
- CATALOGUE OF BIRDS OF THE AMERICAS, Part VIII—C. E. Hellmayr—*Field Museum*, \$4.
- THE CENOTES OF YUCATAN, MEXICO—*Carnegie Institution of Washington*.
- A CHILD'S STORY OF THE ANIMAL WORLD—E. G. Huey—*Reynal & Hitchcock*, \$3.50.
- CITIES OF WAX—Julie Clossen Kenly—*Appleton*, \$2.50.
- COMPARATIVE ANATOMY OF VERTEBRATES (rev. mimeo. ed.)—H. H. Collins—*U. of Pittsburgh*, \$2.25.
- THE COURTSHIP OF GOULD'S MANAKIN ON BARRO COLORADO ISLAND, CANAL ZONE—Frank M. Chapman—*Amer. Museum of Natural History*.
- CURIOUS FACTS ABOUT OUR COMMON BIRDS, ANIMALS AND PLANTS—William Furbay—*Noble*, \$2.
- DOG ENCYCLOPEDIA—Will Judy—*Judy Pub. Co.*, \$5.
- ECOLOGY AND LIFE HISTORY OF THE PORCUPINE (*ERETHIZON EPIXANTHUM*) as Related to the Forests of Arizona and the Southwestern United States—Walter P. Taylor—*U. of Arizona*, \$1.
- ELEMENTARY ZOOLOGY FOR MEDICAL STUDENTS (3d ed.)—L. A. Borradaile—*Oxford*, \$3.50.
- FISH AND GAME NOW OR NEVER—H. B. Hawes—*Appleton*, \$3.
- FOOT PRINT MANUALS, Nos. 1 and 2—Ida B. Tibbets—*Orthovis*, 10c each.
- FOOT PRINT SERIES, No. 2: Monkeys and Apes, Strange Animals, Giants of the Ani-

## Master a LANGUAGE ... in 3 months

By the Linguaphone Method you can acquire a sound speaking and reading knowledge of any modern, Oriental or Slavic language—in the privacy of your own home.

### Send for FREE Book

Tells how Linguaphone was made by 150 of the foremost language teachers, why it is used in over 12,000 schools and colleges and by thousands of men and women.

LINGUAPHONE INSTITUTE  
61 Rockefeller Center New York, N. Y.

# Ghirardi's Famous RADIO PHYSICS COURSE

The most popular radio course ever written—used by thousands of schools, students and fans the world over. THOROUGH—it covers the whole field from basic electrical theory up to the latest applications and developments in radio, television and the talks. UNDERSTANDABLE—a "marvel of clearness" written in plain, every-day language. CONCISE—nothing but the essential facts—no excess verbiage. AUTHORITY—recognized everywhere as the most standard and reliable radio text book. 2nd revised edition. 972 pages. Over 500 illustrations. \$4.00 postpaid.

## MODERN RADIO SERVICING

by A. A. Ghirardi

Another practical Ghirardi text, just published, that for the first time presents all the latest information about radio servicing as it is practised today by the leading service organizations in the country. 1935 servicing methods clearly described (even the new cathode-ray oscilloscope). Construction details and descriptions of up-to-the-minute equipment. Dozens of exclusive features. 1300 pages. Over 700 illustrations. \$5.00 postpaid—with supplement, *Radio Field Service Data and Answer Book*.



## YOUR INVENTION

How to  
Protect and Merchandise it

by Elmore B. Lyford

This valuable new book, written for the layman, tells the whole story about patents, trade-marks and copyrights, and "debunks" those practices designed to exploit the inexperienced inventor. Endorsed by patent authorities. \$1.00 postpaid.

Send for free circulars describing these important books

### MAIL COUPON TODAY

Radio & Technical Publishing Co.  
45 Astor Place, New York. Dept. SNL-F

- ☐ Please send.....cop....of Ghirardi's RADIO PHYSICS COURSE. (\$4.00 list)
- ☐ Please send.....cop.....of Ghirardi's MODERN RADIO SERVICING with Supplement. (\$5.00 list)
- ☐ Please send.....cop.....of Lyford's YOUR INVENTION. (\$1.00 list)
- ☐ Please send free circulars describing these books.

Name .....

Address.....

★ ★ ★ ★ ★ ★ ★ ★ ★ ★

- mal Kingdom, Wild Oxen—H. B. Harte—*Orthovis*, \$1 per set.
- GENERAL ZOOLOGY NOTEBOOK—S. H. Williams and R. T. Hance—*U. of Pittsburgh*, \$2.75.
- GOVERNMENTAL PROBLEMS IN WILD LIFE CONSERVATION—R. H. Connery—*Columbia*, \$3.25.
- GUIDE TO SEXING CHICKENS—Charles Gibbs—*Orange Judd*, \$1.25.
- INSECT ENEMIES OF SHADE TREES—Glenn W. Herrick—*Comstock*, \$4.
- THE INVERTEBRATA—L. A. Borradaile and F. A. Potts—*Macmillan*, \$4.\*
- MAMMALIAN ANATOMY (rev. mimeo. ed.)—H. H. Collins—*U. of Pittsburgh*, \$2.50.
- MAN AND THE VERTEBRATES—Alfred S. Romer—*U. of Chicago*, \$3.
- MANUAL OF LAND AND FRESH WATER VERTEBRATE ANIMALS OF THE UNITED STATES (Exclusive of birds) (2nd ed.)—Henry Sherring Pratt—*Blakiston's*, \$6.
- MIGRATION OF ANIMALS FROM SEA TO LAND—A. S. Pearse—*Duke Univ.*, \$3.
- MY ANIMAL FRIENDS—C. Emerson Brown—*Blue Ribbon*, \$1.
- NEVADAN RACES OF THE MICROTUS MONTANUS GROUP OF MEADOW MICE—Hall—*U. of California*.
- NEW ILLUSTRATED NATURAL HISTORY—Ernest Protheroe—*Garden City*, \$1.98.
- OCEANIC BIRDS OF SOUTH AMERICA (2 vols.)—Robert Cushman Murphy—*Amer. Museum of Natural History*.
- 1001 QUESTIONS ANSWERED ABOUT YOUR AQUARIUM—Ida M. Mellen and Robert J. Lanier—*Dodd*, \$3.
- ORGANIC EVOLUTION (mimeo. ed.)—H. H. Collins—*U. of Pittsburgh*, \$2.25.
- OUR ENEMY THE TERMITE—T. E. Snyder—*Comstock*, \$3.
- OVER AFRICAN JUNGLES—Martin Johnson—*Harcourt*, \$3.75.
- PARADE OF THE ANIMAL KINGDOM—Robert and Jane Z. Hegner—*Macmillan*, \$5.
- PHYSIOLOGY OF DOMESTIC ANIMALS—H. H. Dukes—*Comstock*, \$6.
- SEASHORE ANIMALS OF THE PACIFIC COAST—Myrtle E. Johnson and Harry J. Snook—*Macmillan*, \$6.
- SERPENTS OF THE NORTHEASTERN STATES (rev.)—R. L. Ditmars—*N. Y. Zoological Soc.*, 50c.
- SNAKE-HUNTERS' HOLIDAY: Tropical Adventure in Search of Bats and the Bushmaster—Raymond L. Ditmars and William Bridges—*Appleton*, \$3.50.
- WILD BIRDS AT HOME—Francis Hobart Herrick—*Appleton*, \$4.
- WILD LIFE IN THE SOUTH—Archibald Rutledge—*Stokes*, \$1.75.
- WILD LIFE IN THE SOUTHWEST—Oren Arnold—*Banks Upshaw*, \$1.28.
- Miscellaneous**
- ADVENTURES IN GREEN PLACES—Herbert Ravenel Sass—*Putnam's*, \$3.50.
- AIRCRAFT—Le Corbusier—*Studio*, \$2.50.
- ALL ABOUT COFFEE—William H. Ukers—*Tea and Coffee Trade Journal*, \$15.
- ALL ABOUT TEA (2 vols.)—William H. Ukers—*Tea and Coffee Trade Journal*, \$25 per set.
- AMERICAN CHAMBER OF HORRORS: THE TRUTH ABOUT FOOD AND DRUGS—Ruth de Forest Lamb—*Farrar & Rinehart*, \$2.50.
- AMERICAN FOUNDATIONS—H. C. Coffman—*Association Press*, \$2.50.
- AMERICAN NATION YESTERDAY AND TODAY—Tryon, Lingley and Morehouse—*Ginn*, Part I, \$1.28; Part II, \$1.16.
- AMERICAN PHILOSOPHY TODAY AND TOMORROW—ed. by H. M. Kallen and Sidney Hook—*Furman*, \$2.75.
- THE ART OF INVENTING AND WHAT TO INVENT—Raymond F. Yates—*Appleton*, \$3.
- AN ATLAS OF EUROPEAN HISTORY, from the 2nd to the 20th century—J. F. Horrabin—*Knopf*, \$1.50.
- BEGINNINGS OF OUR NATION—Knowlton and Gill—*Amer. Book*, Penn. ed., \$1.20.
- BREAKDOWN: The Collapse of Traditional Civilization—Robert Briffault—*Coward-McCann*, \$2.
- CAREERS AHEAD (school ed.)—Joseph Cotter and Harold Brecht—*Little, Brown*, \$1.25.
- COLLISIONS IN STREET AND HIGHWAY TRANSPORTATION—Barry Mulligan—*Dorrance*, \$3.
- COMMUNITY AGENCY RELATIONSHIPS IN THE ADJUSTMENT SERVICE—L. S. Hawkins, Gwendolen Schneider and H. A. White—*Amer. Ass'n. for Adult Education*, 50c.
- CRIME AND THE STATE POLICE—A. Vollmer and A. E. Parker—*U. of California*, \$2.50.
- DEVELOPMENT OF INFORMATION RESOURCES IN THE ADJUSTMENT SERVICE—L. S. Hawkins—*Amer. Ass'n. for Adult Education*, 50c.
- DUST—S. Cyril Blacktin, Ph.D.—*Sherwood*, \$6.50.
- FINDING THE NEW WORLD: from Leif the Lucky to the Pilgrims of Plymouth—W. T. Field—*Ginn*, \$1.
- FOODS AND THE LAW—A. P. Blanck—*Peter Smith*, \$2.50.
- FOODS: THEIR SELECTION AND PREPARATION—Louise Stanley and Jessie Alice Cline—*Ginn*, \$2.60; Laboratory Manual, \$1.
- GRINDSTONE FARM—Henry B. Lent—*Macmillan*, \$1.50.
- GUIDE TO REFERENCE BOOKS (6th ed.)—Isador G. Mudge—*Amer. Library Ass'n.*, \$4, \$5.
- HE WENT WITH MARCO POLO—C. Leroy Baldridge and Paul Quinn—*Houghton*, \$2.
- HEAD, HEART AND HANDS IN HUMAN EVOLUTION—R. R. Marett—*Holt*, \$3.50.
- HISTORICAL BIBLIOGRAPHIES, A SYSTEMATIC AND ANNOTATED GUIDE—E. M. Coulter and M. Gerstenfeld—*U. of California*, \$2.50.
- THE HISTORY OF WESTERN CIVILIZATION, 2 vols.—Harry Elmer Barnes—*Harcourt*, \$10.
- HOW SMART ARE YOU?—Fred Menaker—*Leisure League of America*, 25c.
- HOW TO RIDE YOUR HOBBY—A. Frederick Collins—*Appleton*, \$2.
- AN INTRODUCTION TO SOCIOLOGY—Dawson and Gettys—*Ronald Press*, \$4.
- INVENTING THE SHIP—S. C. Gilfillan—*Follett*, \$2.50.
- JOHN LIND OF MINNESOTA—George Stephenson—*U. of Minnesota*, \$4.
- JUNGLE MAN AND HIS ANIMALS—Carveth Wells—*McBride*, \$1.
- LATEX IN INDUSTRY—R. J. Noble—*Rubber Age*, \$6.
- MAN, THE UNIVERSE-BUILDER—Richard E. Lee—*Williams & Wilkins*, \$3.
- THE MARCH OF MAN—ed. by Albert B. Hart and Isaac J. Cox—*Encyclopaedia Britannica*, \$12.
- MEDICAL AND PSYCHIATRIC SERVICE IN THE ADJUSTMENT SERVICE—C. O. Fiertz—*Amer. Ass'n. for Adult Education*, 50c.
- THE MEDICAL VODOO—Annie Riley Hale—*Gotham House*, \$3.
- MEN AND MOUNTAINS—M. Ilin (trans. by Beatrice Kinkaid)—*Lippincott*, \$2.50.
- METALLOGRAPHY—W. E. Weiland—*Burgess*, \$2.75.
- MY WORTH TO THE WORLD—Capen and Melchior—*Amer. Book*, N. Y. ed., \$1.60, Penn. ed., \$1.64.
- NOISE—N. W. McLachlan—*Oxford*, \$2.25.
- ON THE TRAIL OF ANCIENT MAN—Roy Chapman Andrews—*Garden City*.
- OUR CONTEMPORARY CIVILIZATION—Roscoe Lewis Ashley—*Henry Holt*, \$2.90.
- OUTLINE OF SOCIOLOGY—Hayes and Shannon—*Longmans*, 75c.
- PIONEERING WITH THE RED CROSS—Ernest P. Bicknell—*Macmillan*, \$2.50.
- POOR JOHN FITCH—Thomas Boyd—*Putnam's*, \$3.
- POPULAR HINDUISM—L. S. S. O'Malley—(Cambridge) *Macmillan*, \$2.50.
- PRACTICAL PROBLEMS IN HOME LIFE—Pearson and others—*Amer. Book*.
- PRESIDENT RANDOLPH, AS I KNEW HIM—John Francis Goldsmith—*Dorrance*, \$2.
- SAFE AND SANE USE OF THE HIGHWAYS (textbook for 7th, 8th or 9th grades)—Thomas Allen—*E. M. Hale*, \$1.20.
- SAFETY ON THE HIGHWAYS (Practice book for use with SAFE AND SANE USE OF THE HIGHWAYS)—Thomas Allen—*E. M. Hale*, 40c.
- SCENERY AND THE SENSE OF SIGHT—Vaghan Cornish—(Cambridge) *Macmillan*, \$2.75.
- THE SCIENCE AND ART OF HOMEMAKING—Cauley—*Amer. Book*.
- THE SOCIOLOGY OF INVENTION—Gilfillan, S. C.—*Follett*, \$2.
- SOURCE BOOK FOR SOCIOLOGY—Kimball Young—*Amer. Book*, \$3.50.
- STELLAR, The Naturalist—Leohard Stejneger—*Harvard*.
- STORY OF CIVILIZATION, Vol. I, Our Oriental Heritage—Will Durant—*Simon & Schuster*, \$5.
- A STUDY OF RURAL SOCIETY—J. H. Kolb and deS. Brunner—*Houghton Mifflin*, \$3.50.
- TOMORROW'S CHILDREN—Ellsworth Huntington—*Wiley*, \$1.50.
- TRANSPORTATION BY WATER—Emory R. Johnson, Grover G. Huebner and Arnold K. Henry—*Appleton*, \$5.
- WHO'S WHO IN LATIN AMERICA—Percy Alvin Martin—*Stanford Univ.*, \$6.50.
- WHY ON EARTH DID IT HAPPEN?—J. R. Swenson—*Tardy Publ. Co.*, \$2.
- WINGS ACROSS CONTINENTS, Travelog of the Amsterdam-Batavia, D. E. I., Air Line—E. Rusman—*Van Riemsdyck*, \$2.50.
- WOMEN AND A CHANGING CIVILIZATION—W. Holtby—*Longmans*, \$1.75.
- WORLD FELLOWSHIP—C. F. Weller—*Live-right*, \$3.
- WORLDS WITHOUT END—H. Spencer Jones—*Macmillan*, \$3.\*
- YOUR INVENTION (How to protect and merchandise it)—Elmore B. Lyford—*Radio & Technical Publ. Co.*, \$1.50.
- YOUR TELLTALE ENGLISH—Sophie C. Hadida—*Putnam's*, \$2.

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, 2101 Constitution Avenue, Washington, D. C.