

# Books of the Week

**TO SERVE YOU:** To get books, send us a check or money order to cover retail price. Address Book Dept., SCIENCE NEWSLETTER, 1719 N St., N. W., Washington 6, D. C. Ask for free publication direct from issuing organizations.

THE AMERICAN EPHEMERIS AND NAUTICAL ALMANAC FOR THE YEAR 1952—Nautical Almanac Office—*Govt. Printing Office*, 654 p., \$3.75. New edition of the standard reference work.

THE BED-LOAD FUNCTION FOR SEDIMENT TRANSPORTATION IN OPEN CHANNEL FLOWS—Hans Albert Einstein—*Govt. Printing Office*, Tech. Bull. No. 1026, 71 p., paper, 65 cents. Technical bulletin of the Department of Agriculture on river basin development. 10 work charts included.

BRIEF COLLEGE CHEMISTRY—Leon B. Richardson, *Henry Holt*, Rev. ed., 470 p., illus., \$4.25. Revision of author's 1942 textbook for introductory general chemistry courses.

CABOCHON JEWELRY MAKING—Arthur and Lucille Sanger—*Bennett*, 128 p., illus., \$3.50. A how-to-do-it book on stone setting and design for the hobbyist who knows how to use hand tools.

CONTEMPORARY HOUSES: Developed from Room Units—*Small Homes Council, University of Illinois*, 62 p., illus., paper, \$1.00. A report on architectural investigation in house design making use of improved building techniques.

CYTOGENETICS OF THE GROUSE LOCUST *Apotettix Eurycephalus* Hancock—Robert K. Nabours and Florence M. Stebbins—*Kansas Agricultural Experiment Station*, 116 p., paper, free to those seriously interested upon request to publisher. Technical bulletin No. 67.

ELECTRIC CIRCUITS FOR ENGINEERS—Edward J. Kraybill—*Macmillan*, 212 p., illus., \$3.85. A textbook for engineers in all related fields.

EVOLUTION AND CLASSIFICATION OF THE OSTEOSTRACI AND THE EXOSKELETON OF EARLY OSTEOSTRACI—Robert H. Denison—*Chicago Natural History Museum*, 58 p., illus., paper, \$1.00. Discussions of some of the earliest known vertebrates from the Fieldiana Geology collection.

## Bank Account Growing?? If Not, You Should Read:

1. **How to Save \$1000 a Year at Home**—Gaddis. Very helpful hints and suggestions on saving money for those with modest incomes. It's surprising how much you can save once you learn how.

2. **How to Be an Expert Car Buyer**—Cummings. Learn how to save yourself considerable money when you buy your next car. Avoid gyp dealers' tricks. Avoid lemons. Cut operating, owning, repair costs.

3. **How to Make Money and Plenty of It**—Rissman. Mr. Rissman, president of Rissman & Son, Chicago, has made a large fortune manufacturing WIND-BREAKER JACKETS. He has set down 100 business success rules which must be followed to achieve riches.

4. **Making Money at Home**—Shields. Almost every successful business has its beginning in home spare-time extra-money projects. Then it suddenly booms and makes the owner rich. Mr. Shields describes 63 of the easiest-to-start businesses.

Books on sale at Macys; Marshall Field; Wanamakers; bookstores. **Money-back guarantee.** One book —\$1.25 Ppd. Two or more \$1.00 per copy direct from Cummings Co., Publishers, 1321 Arch St., Phila. 75, Pa. Free circular on request. COD's shipped.

FILM DISCUSSION GROUPS IN FUNDAMENTAL EDUCATION—Peter Brinson—*Olen Press*, approx. 14 cents. Fifth in an educational series prepared with UNESCO.

THE FIRST BOOK OF NURSES—Mary Elting—*Franklin Watts*, 42 p., illus., \$1.75. Narrative style information for young reader about all kinds of nurses.

GEOGRAPHY OF THE PACIFIC—Otis W. Freeman, Ed.—*Wiley*, 573 p., illus., \$10.00, school edition, \$8.00. Thirteen experts—geographers, anthropologists and area specialists discuss the ocean, the islands, the people, the resources; the human relationships, the political development, and current problems of the Pacific.

GEOGRAPHY OF THE USSR: A Regional Survey—Theodore Shabad—*Columbia Univ. Press*, 584 p., \$8.50. An up to date picture of the entire area within the USSR limits at the end of 1950. A total of 55 maps show about 4,000 place names mentioned in text.

HANDBOOK FOR SERVICEMEN—Parnell Callahan—*Oceana*, 64 p., paper, \$1.00. Answers questions arising through transition from civilian to serviceman to veteran.

HOW TO STOP SNORING—David Horwich—*Exposition*, 80 p., \$2.00. Simple psychological principles applied to snore control, for the snorer and the snored to.

AN ILLUSTRATED LABORATORY MANUAL OF PARASITOLOGY — Raymond M. Cable—*Burgess Publishing Co.*, 152 p., illus., paper, \$2.25. Revised edition of teacher's manual first prepared in 1940.

INTERLINGUA-ENGLISH DICTIONARY—Alexander Gode, Ed.—*Storm*, 315 p., \$5.00. A dictionary of 27,000 words of common pattern in the languages of the Western civilization. Practical aid to teacher of modern foreign languages.

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS: Report of Proceedings of Fifth General Assembly—F. J. M. Stratton—*Cambridge Univ. Press*, 249 p., about \$1.05. Report of assembly at Copenhagen, September 14 to 19, 1949.

INTRODUCTORY QUANTITATIVE ANALYSIS: Principles and Selected Procedures — Ernest H. Swift, *Prentice-Hall*, 534 p., \$5.25. Text for two-semester course with laboratory procedures and methods.

KON-TIKI—Thor Heyerdahl — *Rand-McNally*, 304 p., illus., \$4.00. To support a theory that the South Sea Islands were peopled by "immigrants" from Peru, six men crossed the Pacific on a primitive raft in a 101-day journey.

KOREA AND THE UNITED NATIONS—*United Nations (Columbia Univ. Press)*, 96 p., paper, 25 cents. A history of debates and actions of the Security Council in the Korean question from June 25 to September 7, 1950. Includes a chronology from 1945 to the aggression.

LAND HUNGER IN MEXICO—Tom Gill—*Charles Lathrop Pack Forestry Foundation*, 86 p., illus., \$2.00. A study of the interrelationship

of the people of Mexico and their basic natural resources.

LANGUAGE, TRUTH AND LOGIC—Alfred Jules Ayer—*Dover*, 160 p., \$3.00. Revised edition brings up to date the author's 1936 antidote to muddled thinking and communication.

MAKING AND USING PEANUT BUTTER—W. R. Beattie—*Govt. Printing Office*, 15 p., illus., paper, 5 cents. Bulletin of the Department of Agriculture on commercial and home making of peanut butter. Food values and recipes included.

MECHANICS OF MATERIALS—Harry D. Conway—*Prentice-Hall*, 325 p., \$6.35. Text with theoretical examples applicable to practical problems.

METHODS AND COSTS OF PRODUCING ALCOHOL FROM GRAIN BY THE FUNGAL AMYLASE PROCESS ON A COMMERCIAL SCALE—*Govt. Printing Office*, 38 p., paper, 15 cents. Bulletin of the Production and Marketing Administration and the Bureau of Agricultural and Industrial Chemistry of the Department of Agriculture.

METHODS OF OPERATIONS RESEARCH—Philip M. Morse—*Technology Press and Wiley*, 158 p., \$4.00. New mathematical techniques applicable to industry, government, and military, for predicting and understanding future operations and modifying them.

MOST OFTEN NEEDED 1951 TELEVISION SERVING INFORMATION—M. N. Beitman, Ed.—*Supreme Publications*, 192 p., illus., paper, \$3.00. Fifth manual in Television Series for technicians.

A NATURALIST IN THE GRAN CHACO—Sir John Graham Kerr—*Cambridge Univ. Press*, 235 p., illus., \$4.50. Extracts from diaries of two famous expeditions by the author in 1889-91 and 1896-7 to an area almost completely unknown to science.

PARASITIC INFECTIONS IN MAN—Harry Most, Ed.—*Columbia Univ. Press*, 229 p., \$4.50. A symposium of the Section on Microbiology of the New York Academy of Medicine. For microbiologists and allied laboratory and clinical investigators.

PATTERNS OF SEXUAL BEHAVIOR—Clellan S. Ford and Frank A. Beach—*Harper*, 307 p., \$4.50. Study similar to the Kinsey report, but based on studies of sexual patterns of 90 representative societies from the Arctic to the southern tip of Australia. Foreword by Robert Latou Dickinson.

THE PHASE RULE AND HETEROGENEOUS EQUILIBRIUM—John E. Ricci—*D. Van Nostrand*, 505 p., \$12.00. Textbook for advanced students of chemistry.

THE POLAROGRAPHIC METHOD OF ANALYSIS—Otto H. Muller—*Chemical Education Publishing Co.*, 2d ed. 209 p., illus., \$3.50. Revised and augmented text for teachers and students.

POWER TOOLS AND HOW TO USE THEM—W. Cyde Lammey—*Pop. Mechanics*, 144 p., illus., \$2.50. A guide to what tools to buy for the home workshop, how to use them, and what to make with them.

PRINCIPLES AND PRACTICE OF BACTERIOLOGY—Arthur H. Bryan—*Barnes & Noble*, Rev. ed., 410 p., illus., \$1.75. Modernized and revised fourth edition of one of the college outline series.

PRINCIPLES OF PHASE EQUILIBRIA—F. E. W. Wetmore and D. J. LeRoy—*McGraw-Hill*,

\$3.50. Textbook presenting basic principles of heterogeneous equilibria in terms of laboratory criteria.

PROPAGATION OF SHORT RADIO WAVES—Donald E. Kerr, Ed.—*McGraw-Hill*, 728 p., illus., \$10.00. Volume 10 of Massachusetts Institute of Technology Radiation Laboratory Series.

THE PUBLIC HEALTH NURSE IN YOUR COMMUNITY—Public Health Service—*Govt. Printing Office*, 14 p., illus., paper, 10 cents. Tells how public health nurses help maintain good health in home, school, and work.

QUIROGA: A Mexican Municipio—Donald D. Brand—*Govt. Printing Office*, 242 p., illus., paper, \$1.75. Prepared in cooperation with the State Department, this study is the outgrowth of two research projects in southwestern Mexico begun by the Smithsonian Institution in 1939 and concluded by this publication. A detailed study of a Mexican community.

RADIOACTIVE TRACERS IN BIOLOGY: An Introduction to Tracer Methodology—Martin D. Kamen—*Academic Press*, 429 p., illus., \$7.50. Second edition of 1928 text brings various aspects of tracer techniques up to date.

RESEARCH FOR INDUSTRY—*Armour Research Foundation*, 52 p., illus., paper, free upon request to publisher. Annual review and report.

A REVISION OF FOSSIL SEQUOIA AND TAXODIUM IN WESTERN NORTH AMERICA BASED ON THE RECENT DISCOVERY OF METASEQUOIA—Ralph W. Chancy—*American Philosophical Society*, 91 p., illus., \$1.50.

SCIENCE NEWS, No. 18—J. L. Crammer, Ed.—*Penguin Books*, 144 p., illus., 35 cents. Latest in series of British papers.

SEMIMICRO QUALITATIVE ANALYSIS—William Lloyd Evans, Alfred Benjamin Garrett and Harry Hall Sisler—*Ginn*, 240 p., illus., paper, \$3.00. Revised textbook bringing up to date the author's earlier work on elementary qualitative analysis. Exercises and questions included.

TEN RIVERS IN AMERICA'S FUTURE—Water Resources Policy Commission—*Govt. Printing Office*, 801 p., \$6.00. Detailed and comprehensive studies of plans, potentialities and problems of development in 10 major river

basins. Volume two of the Commission's Report to the President.

THE WATER AND THE POWER: Development of the Five Great Rivers of the West—Albert N. Williams—*Duell*, 378 p., illus., \$4.50. River history, river economics, river politics that are vital issues today.

*Science News Letter*, March 10, 1951

RADIO  
**Mobile Radio Probes To Aid Predictions**

➤ A RADIO sending and receiving station on wheels has started probing the outer layers of the earth's atmosphere. The object is to improve long range radio communications.

The spot near Cincinnati chosen for the probing studies is half-way between the National Bureau of Standards' transmitting station at Sterling, Va., and a corresponding station operated by Washington University at St. Louis. It is directly under the predicted point in atmosphere where the radio beam between Sterling and St. Louis is bent back towards the earth.

Trailer trucks carry all the equipment needed to transmit, receive and record radio signals. Called the "St. Louis Equipment," the operation will enable scientists to explore for the first time the electrically charged upper atmosphere at the midway point.

From 50 to 200 miles above the earth's surface there are a series of electrically conducting layers known as the ionosphere. Radio waves of certain frequencies are reflected back to earth by the charged air. They are thus received many miles from their source.

Sunspots and the seasons among other factors affect the ionosphere, often making necessary a change in radio station frequencies for best reception. From studies at this and other midpoint locations, enough should be learned about the propagation of radio waves in the ionosphere to map their paths accurately and improve communications.

*Science News Letter*, March 10, 1951

INVENTION  
**Soil Fumigant Applied in New Capsule Form**

➤ AN IMPROVED method of putting pest-killing chemicals into the soil is provided by the use of an insecticide capsule on which patent 2,543,580 was issued to Wallace G. Kay, Grosse Pointe Park, Mich. The capsule coating is slowly dissolved by the moisture in the soil, releasing vapor from the chemicals to kill particularly nematodes and wireworms but also insects and their larvae.

The capsules are dropped in holes made by a stick, and then covered with soil. The fumigant is released only after an interval of time, so that poisonous fumes that come

to the surface can do no injury to the user. With certain fumigants applied below the surface without the capsule, users sometimes are required to wear gas masks.

*Science News Letter*, March 10, 1951

PHOTOGRAPHY  
**Three Dimension Photos Soon To Be Available**

➤ COMMERCIAL photographers will soon be able to make three-dimensional pictures with an adaptation of the military trivision system announced by its inventor, Douglas F. Winnek. In an earlier invention of his, single X-ray pictures are obtained that show length, breadth and depth.

A new lens, suitable for use in standard illustration or portrait cameras, is employed. The inventor states that it can "look" around the scene to capture all dimensions. The image is recorded upon the ordinary film or plate. A lenticular, or lens-like, plastic screen, which remains in the film or plate holder, resolves the image into a trivision negative. With present equipment, the photographer can make as many prints as desired.

*Science News Letter*, March 10, 1951

Nearly every large passenger liner wherever it may be in the world can now be reached by telephone.

Good soil management means the efficient production of quality crops along with continued improvement in soil productivity.

**MISTAKES IN SCIENCE**  
**How Many of These Common Scientific Fallacies Are You Guilty of Believing?**

Do you believe that the general theory of relativity has been "proved"—and that the arguments upon which it is based are accepted in toto by all reputable physicists? Do you believe that it is possible to give an accurate portrayal of experience by means of mathematics? Do you acknowledge as "established fact" the dimensions of the universe given to us by cosmogonists? Do you accept uncritically all judgments of time, space, wave mechanics, matter, etc., made by modern science? Let outstanding scientist P. W. Bridgman (winner of the Nobel Prize in Physics) point out the error in these beliefs in his brilliant, searching THE NATURE OF PHYSICAL THEORY. Put your own thinking on a firmer basis by learning to distinguish scientific truth from scientific hogwash. Stimulating, objective appraisals and descriptions of the contributions of Newton, Bohr, Einstein, Heisenberg and others. "A wealth of illuminating and thought-provoking observations. It should be read by anyone interested in physical science."—*American Physics Teacher*. Send only \$2.25 for your copy to DOVER PUBLICATIONS, Dept. 23, 1780 BROADWAY, N. Y. 19, N. Y. Return book in ten days if unsatisfactory for immediate refund. Only 150 copies left so tear out this ad (or write name and address on separate piece of paper) and mail TODAY.

NAME.....  
ADDRESS.....

**YOUR HAIR**

**ITS HEALTH, BEAUTY, AND GROWTH**  
By HERMAN GOODMAN, M.D.

A medical specialist tells you what to do to save and beautify your hair, stimulate healthier hair growth, and deal with many problems, as: Dandruff—gray hair—thinning hair—care of the scalp—baldness—abnormal types of hair—excessive oiliness—brittle dryness—hair falling out—infection—parasites—hair hygiene—glands—diet—hair coloring—and myriad other subjects concerning hair.

"Discusses the many problems of hair retention, regrowth and removal."—*Science News Letter*.

287 pages—PROFUSELY ILLUSTRATED!  
Price \$2.95, incl. postage, 5-day-Money-Back Guarantee  
EMERSON BOOKS, Inc., Dept. 823-F  
251 W. 19th Street, New York 11