

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. books in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N. Street, N. W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

**ASSOCIATED MEASUREMENTS**—M. H. Quenouille—*Academic Press-Butterworths*, 242 p., \$5.80. A statistical work concerned with old and new methods for dealing with associations between measurements, especially quantitative measurements.

**BEYOND HUMAN KEN**—Judith Merrill, Ed.—*Random House*, 334 p., \$2.95. In this science fiction anthology, you will meet new and strange forms of intelligent life.

**BIRDS IN THE MUSEUM GARDEN**—Irving Black—*Newark Museum*, 12 p., illus., paper, 50 cents. This small spot, hemmed in by city buildings, is a favorite resting and feeding place for migrating birds.

**BOWEN VOLUME, AMERICAN JOURNAL OF SCIENCE**—Chester R. Longwell and John Rodgers, Eds.—*American Journal of Science*, 627 p., in two parts, illus., paper, \$6.00. Papers on minerals presented in honor of Dr. Norman L. Bowen on the occasion of his retiring from the staff of the Geophysical Laboratory.

**CHEMISTRY OF FOOD AND NUTRITION**—Henry C. Sherman—*Macmillan*, 8th ed., 721 p., \$6.00. A new and thoroughly revised edition of a well-known college text.

**CHILDREN CAN WORK INDEPENDENTLY**—Constance Carr, Ed.—*Association for Childhood Education International*, 35 p., illus., paper, 75 cents. On methods of treating the child to develop self-reliance.

**CURRENT ROAD PROBLEMS: Curing of Concrete Pavements**—*Highway Research Board*, 19 p., paper, 30 cents. Presenting current recommended practice.

**DICTIONARY OF GAMES: Outdoor, Covered Court and Gymnasium, Indoor**—J. B. Pick, Ed.—*Philosophical Library*, 318 p., \$4.75. Information about games played in Britain (and other places) for those who "expect to find themselves in a field with a ball and six children" or "in a drawing-room with a grandmother, two aunts and a pack of cards."

**THE EARTH: Its Origin, History and Physical Constitution**—Harold Jeffreys—*Cambridge University Press*, 3d ed., 392 p., illus., \$13.50. Four chapters on the origin of the Solar System have been deleted from this edition because the theory developed in them needed drastic revision. Other chapters have been greatly revised and enlarged.

**THE FIRST BOOK OF PUPPETS**—Moritz Jagendorf—*Franklin Watts*, 67 p., illus., \$1.75. Telling boys and girls how to make and operate various types of puppets.

**A FURTHER STUDY OF VISUAL PERCEPTION**—M. D. Vernon—*Cambridge University Press*, 289 p., illus., \$7.00. The author shows how the individual disregards minor variations in the environment if these affect his impression of a stable external world.

**A HAND-OPERATED NIBBLER FOR THE BRACE SHOP**—John L. Young—*Mellon Institute*, 2 p.,

illus., paper, free upon request to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. The nibbler is a special kind of punch with which an irregular line can be followed.

**IMPROVEMENT OF NICKEL CRACKING CATALYSTS**—C. H. Riesz, H. A. Dirksen and W. J. Pleticka—*Institute of Gas Technology*, 28 p., illus., paper, \$3.50. Periclase, it was found in these studies, is as satisfactory as alumina as a support for the nickel.

**INTERIOR DECORATING FOR YOU**—Florence B. Terhune—*Barrows*, 284 p., illus., \$4.95. A book for brides or others who wish to make a house into a home.

**KNOW YOUR CARBURETOR**—Research Staff, Gumout Division—*Pennsylvania Refining Company*, 46 p., illus., paper, free upon request direct to publisher, 2695 Lisbon Road, Cleveland 4, Ohio. Helpful information for car owners.

**THE LAPOINTE MACHINE TOOL COMPANY AND UNITED STEELWORKERS OF AMERICA**—George P. Shultz and Robert P. Crisara—*National Planning Association*, Case Study No. 10, Causes of Industrial Peace Under Collective Bargaining, 81 p., paper, \$1.00. Telling how a long and costly strike was followed by a period of industrial peace.

**LIFE AND LETTERS OF R. A. F. PENROSE, JR.**—Helen R. Fairbanks and Charles P. Berkey—*Geological Society of America*, 765 p., illus., \$4.00. The story of the life of a man who left about ten million dollars to be divided equally between the Geological Society of America and the American Philosophical Society. This volume is a memorial to him.

**LIFE INSURANCE FACT BOOK 1952**—Virginia Thompson Holran—*Institute of Life Insurance*, 107 p., illus., paper, single copies free upon request direct to publisher, 488 Madison Ave., New York 22, N.Y. Statistics on the life insurance business for students and others.

**MEMORIAL CENTER FOR CANCER AND ALLIED DISEASES, Annual Report 1951 to 1952**—Reginald G. Coombe and Laurance S. Rockefeller—*Memorial Center*, 157 p., illus., paper, free upon request to publisher, 444 East 68th St., New York 21, N.Y. Reporting development of new and safer operations for the cure of cancer, and steady gains toward the control of widespread or inoperable cancer.

**MICROBIAL GROWTH AND ITS INHIBITION: First International Symposium on Chemical Microbiology**—Cyril N. Hinshelwood and others—*World Health Organization (Columbia University Press)*, 285 p., illus., paper, \$3.00. Eighteen of the papers presented at a meeting to mark the inauguration of the International Research Centre for Chemical Microbiology.

**THE NEW DICTIONARY OF AMERICAN HISTORY**—Michael Martin and Leonard Gelber—*Philosophical Library*, 695 p., \$10.00. Historic names, places and events listed in alphabetical order and described.

**PARKING: How It Is Financed**—E. Earle Duffy and D. Grant Mickle—*Automotive Safety Foundation*, 47 p., illus., paper, 75 cents. Reporting what is being done to solve this problem in various parts of the United States.

**PHYSICAL CHEMISTRY**—Frank H. MacDougall—*Macmillan*, 3d ed., 750 p., illus., \$6.00. Chapters on atomic structure and reaction kinetics have been revised.

**PHOTOCONDUCTIVITY IN THE ELEMENTS**—Trevor Simpson Moss—*Academic Press-Butterworths*, 263 p., \$7.00. Metals, which are good conductors of electricity, are opaque to light but good reflectors. Insulators are generally transparent in the visible region and are poor reflectors. Semiconductors are generally opaque in the visible but transparent in the near infrared region.

**PICTURE PRIMER OF DOORYARD GARDENING: From City Plot to Country Acre**—Margaret O. Goldsmith—*Houghton Mifflin*, 48 p., illus., \$2.00. Any homemaker will have pleasure in trying to make the yard look like the lovely color illustrations here.

**RADIO & TV HINTS**—Martin Clifford, Ed.—*Gernsback*, 112 p., illus., paper, \$1.00. New uses for common tools and materials, and new ways of doing things that may come in handy for you.

**STAFFING THE PRESIDENCY**—Bradley D. Nash—*National Planning Association*, 78 p., illus., paper, \$1.00. Recommendations for streamlining the Executive Offices of the President of the United States.

**SUPERCONDUCTIVITY**—D. Shoenberg—*Cambridge University Press*, 2d ed., 256 p., illus., \$6.00. Since the discovery of superconductivity, it has been found that 21 metallic elements and a large number of alloys become superconducting, the transition temperature being characteristic of the particular metal.

**WORKING WIVES AND MOTHERS**—Stella B. Applebaum—*Public Affairs Committee*, 32 p., illus., paper, 25 cents. More than 40% of all mothers with school-age children work. The author stresses the need for better community services such as child care centers.

**YOUR COMMUNITY'S HEALTH**—Dean Franklin Smiley and Adrian Gordon Gould—*Macmillan*, 454 p., illus., \$5.50. This revision of "Community Hygiene" is intended to help individuals in all stations of life to visualize better the wonderful possibilities in community health improvement.

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## CHEMISTRY

### Local Anesthetic More Powerful Than Procaine

► **SYNTHESIS OF** a new local anesthetic more powerful than procaine and about twice as safe is announced by Dr. Emil Hofstetter of Edward Geistlich and Sons, pharmaceutical manufacturers of Lucerne, Switzerland.

The new synthetic painkiller, besides being more active in guinea pigs than procaine, or Novocain, showed only half the toxicity of procaine in tests with mice, Dr. Geistlich states in *Nature* (Dec. 6).

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