

• Books of the Week •

ADOLESCENCE AND YOUTH—Paul H. Landis—*McGraw*, 470 p., illus., \$3.75. Shifts the perspective from the internal mechanisms which provoke adjustment problems to the social structure; discusses the problems of the adolescent in the moral, marital and economic fields and recognizes the respective problems of youth groups in town, village and open country.

ALGEBRA: A Second Course—R. Orin Cornett—*McGraw*, 313 p., diags., \$2. A fresh approach to the subject aimed at providing motivation, recognition of significant principles, and mastery of operational techniques.

CAREERS IN FORESTRY—*Dept. of Agriculture—Government Printing Office*, 23 p., illus., 10 cents. U. S. Department of Agriculture, Miscellaneous Pub. No. 249.

CONDUCTORS AND WIRING LAYOUTS—F. S. Lincoln—*Duell*, 342 p., tables and illus., \$3. Construction and operation of every type of conductor and conductor insulation, along with instruction for wiring motors, welders, capacitors, switchboards, lighting and communication systems.

DEVELOPING MARKETABLE PRODUCTS AND THEIR PACKAGINGS—Ben Nash—*McGraw*, 404 p., tables and illus., \$5. Analyzes the many considerations affecting design and development which influence

the marketing success of mass-production products and processes, and demonstrates the actual procedures in product-package development

THE EARLY HISTORY OF THE IDEA OF THE INHERITANCE OF ACQUIRED CHARACTERS AND OF PANGENESIS—Conway Zirkle—*Am. Philosophical Soc.*, 151 p., \$1.25. Transactions of the American Philosophical Society, vol. 39, part 2.

ELEMENTS OF BACTERIAL CYTOLOGY—Georges Knaysi—*Comstock Pub. Co.*, 209 p., charts and illus., \$3.50. A textbook.

FAMILIAL NONREAGINIC FOOD ALLERGY, Arthur F. Coca, M.D.—*C. C. Thomas*, 191 p., tables and charts, \$3.75. A new method of approach to the diagnosis and treatment of the relatively large group of allergic diseases in which the usual cutaneous tests fail almost entirely.

HELPING DISABLED VETERANS—*American National Red Cross*, 72 p., free. Simple facts about the physical and emotional symptoms of the disabled veteran and homely ways of making him comfortable.

INDUSTRIAL ELECTRICAL WIRING: Wiring Methods and Fittings—E. S. Lincoln—*Duell*, 336 p., tables and illus., \$3. Analyzes phases of construction, operation, and maintenance of the systems for both a.c. and d.c. wiring recognized by the National Electrical Code.

INTERNAL COMBUSTION ENGINES—V. L. Maleev—*McGraw*, 636 p., charts and diags., \$5. 2nd ed. Revised edition of a well-known manual providing a general foundation in the theory, design and operation of internal combustion engines.

MANUAL FOR WATER PLANT OPERATORS—A. A. Hirsch—*Chemical Pub. Co.*, 386 p., diags., \$6.50. Latest developments in water technology and a comprehensive picture of correct operating practice; for use as a text or reference book.

ORGANIC REAGENTS FOR ORGANIC ANALYSIS—Staff of Hopkins and Williams Research Laboratory—*Chemical Pub. Co.*, 175 p., tables and diags., \$3.75. Reference book on the use of organic reagents in preparing derivatives of organic substances for the purpose of identification by melting points.

PETROLEUM PRODUCTION—Volume 1—Park J. Jones—*Reinhold*, 228 p., diags., \$4.50. The mechanics of production of oil, condensate, and natural gas.

PLANTS OF HAWAII NATIONAL PARK: ILLUSTRATIVE OF PLANTS AND CUSTOMS OF THE SOUTH SEAS—Otto Degener—*Edwards Brothers*, 314 p., illus., \$2.50. First photo-lithoprint edition of "Ferns and Flowering Plants of Hawaii National Park, with descriptions of Ancient Hawaiian Customs and an introduction to the Geologic History of the Islands."

PRACTICAL PSYCHOLOGY—Karl S. Bernhardt—*McGraw*, 319 p., diags. and illus., \$2.50. A textbook for beginners. Maintains a scientific viewpoint and at the same time vitalizes the subject matter by a wealth of practical information.

PRIMARY AND STORAGE BATTERIES—E. S. Lincoln—*Duell*, 168 p., diags. and illus., \$3. The application and selection of dry cell, wet cell, caustic soda, and copper-

oxide batteries; and of the lead acid and nickel-iron types of storage batteries. Also gives instruction for the selection and use of battery accessories.

PROCEEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY, vol. 90, no. 1, Symposium on Atomic Energy and Its Implications. *Am. Philosophical Soc.*, 79 p., \$1. Papers read at the joint meeting of the American Philosophical Society and The National Academy of Sciences, Nov. 16-17, 1945.

PROCEEDINGS OF THE CONFERENCE ON QUARTERMASTER TEXTILE RESEARCH—*Textile Research Institute*, 61 p., illus., \$1. Papers on the wartime accomplishments of the Quartermaster Corps of importance to the textile industry; includes an outline of areas in which further research is needed.

REPORT OF THE NATIONAL ACADEMY OF SCIENCES:—Fiscal Year 1943-1944—National Research Council—*Government Printing Office*, 154 p., tables, 30 cents.

SOAP IN INDUSTRY—Georgia Leffingwell and Milton Lesser—*Chemical Pub. Co.*, 204 p., \$4. Useful hints for chemists, manufacturers, salesmen in the utilization of soap in many manufacturing processes.

OUR TEEN-AGE BOYS AND GIRLS: Suggestions for Parents, Teachers, and other Youth Leaders—Lester D. Crow and Alice Crow—*McGraw*, 366 p., \$3. Home, school, vocational and social adjustment of young people.

TRANSACTIONS OF THE WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS:—Vol. XXXVI—*Wis. Acad. Sci. Arts and Let.*, 495 p., tables and illus., \$3. Papers in specialized fields in geology, ecology, anthropology, literature, etc.

VD MANUAL FOR TEACHERS—Samuel D. Allison and June Johnson—*Emerson Books*, 149 p., \$2. An aid for building a program of venereal disease education in the secondary schools. Includes a survey of existing programs in this field, information for the teacher, and many suggestions for teaching aids.

Science News Letter, February 23, 1946

CHEMISTRY

New Process Makes Black Stainless Steel

► IF YOU GET articles of stainless steel that have a shiny black finish instead of the familiar bluish-white sheen, they will probably have been made by the process on which patent 2,394,899 was granted to I. C. Clingan of Baltimore, assignor to the American Rolling Mill Company. The black finish is obtained by immersing the stainless steel in a bath of molten potassium dichromate and sodium dichromate for from two to 30 minutes, at a temperature range of 320 to 500 degrees Centigrade.

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Reading Micromax Recorders in Penicillin Plant of Charles Pfizer & Co.

Tons Behave Like Ounces In Pfizer's Penicillin Vats

Tons of material used in the Pfizer penicillin plant are extracted while temperature and pH are regulated to within limits usually found only in lab work.

Information on which regulation is based does not however come from laboratory instruments. Micromax Recorders, which combine the lab's balance method with the plant's automatic mechanisms, are depended on.

If you're interested in instruments of similar usefulness, we will be glad to send catalogs.

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