

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. book 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.

THE ADVANCEMENT OF SCIENCE, Vol. VIII, No. 32—*British Association for the Advancement of Science*, 95 p., illus., paper, six shillings. Articles of general interest in science.

ATOMIC POWER, AN ECONOMIC AND SOCIAL ANALYSIS: A Study in Industrial Location and Regional Economic Development—Walter Isard and Vincent Whitney—*Blakiston*, 235 p., \$4.75. Providing and interpreting some of the data needed for intelligent consideration of the problem of international control, and evaluating the possibility for the use of atomic power in industry.

THE AUGER EFFECT AND OTHER RADIATIONLESS TRANSITIONS—E. H. S. Burhop—*Cambridge University Press*, 188 p., illus., \$5.50. Interest in this subject has been renewed in connection with the study of artificial radioactivity and the possibility of the production of inner shell ionization by the process of K capture and the internal conversion of gamma radiation.

CAPITOL HILL: The Story of Congress—Desider Holisher and Graham Beckel—*Schuman*, 143 p., illus., \$3.00. Telling in excellent photographs the activities of your senators and representatives and the art works and other interesting features of the capitol.

THE CHILD WHO IS HARD OF HEARING—Children's Bureau—*Govt. Printing Office*, 14 p., illus., paper, 5 cents. Advice to parents on how to prevent loss of hearing and how to help the child with hearing defects.

THE CHILD WITH EPILEPSY—Children's Bureau—*Govt. Printing Office*, 15 p., illus., paper, 5 cents. If seizures are controlled, the child with epilepsy can go to a regular school and take part in athletics.

THE COUNTER-REVOLUTION OF SCIENCE: Studies on the Abuse of Reason—F. A. Hayek—*Free Press*, 255 p., \$4.00. A social scientist contrasts social control through collective action with the so-called "conscious" control by a super-mind.

THE EXPLORATION OF SPACE—Arthur C. Clarke—*Harper*, 199 p., illus., \$3.50. Discussing the possibility, present or remote, of visiting the

planets and even the stars, and what we would do or find out after a safe arrival.

FROST ACTION IN SOILS: A Symposium—K. B. Woods, Chairman—*Highway Research Board*, 385 p., illus., paper, \$3.75. Of interest to highway engineers and others having to do with the maintenance of paving on airports and other areas.

A GUIDE TO THE HISTORY OF SCIENCE: A first Guide for the Study of the History of Science With Introductory Essays on Science and Tradition—George Sarton—*Chronica Botanica*, 316 p., illus., \$7.50. The first part of this book is a series of lectures and the second is a select bibliography intended as a tool for students and historians.

HOW TO DESIGN AND INSTALL PLUMBING: Materials and Methods of Standard Practice—A. J. Matthias, Jr. Revised by Esles Smith, Sr.—*American Technical Society* 3d ed., 444 p., illus., \$3.95. A book for plumbers and students of this trade. It presents standard practices that will enable the workman to operate in different jurisdictions.

INDUSTRIAL HYGIENE: New Information on the Physiological Effects of Trichloroethylene and Ethylene Dichloride Should Aid in Evaluating Associated Health Problems—H. H. Schrenk—*Mellon Institute*, 2 p., paper, free upon request to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

INITIATION AND GROWTH OF EXPLOSION IN LIQUIDS AND SOLIDS—F. P. Bowder and A. D. Yoffe—*Cambridge University Press*, 104 p., illus., \$4.50. Report of tests showing conditions for safe handling of explosives as well as what makes them go off.

INJURY OF THE XIPHOID—Michael Burman and Samuel E. Sinberg—*Columbia University Press*, 92 p., illus., \$3.50. Such an injury may occur when a driver is thrown against the steering wheel in a collision, or when a boxer receives a solar-plexus blow. A book for doctors.

INVERTEBRATE FOSSILS—Raymond C. Moore, Cecil G. Lalicker and Alfred G. Fischer—*McGraw-Hill*, 766 p., illus., \$12.00. Prepared as a textbook, not a reference work, and designed for beginning students with no previous knowledge of zoology.

MARINE OILS: With Particular Reference to Those of Canada—B. E. Bailey, Ed.—*Fisheries Research Board of Canada*, 413 p., illus., paper, \$3.00, cloth \$4.00. Despite the increasing availability of synthetic vitamins, the natural vitamins continue to be of importance in medicine.

PLANTS AND THE ATMOSPHERE—Leonard K. Nash—*Harvard University Press*, 122 p., illus., paper, \$1.50. Case 5 of the Harvard Case Histories in Experimental Science. To aid laymen and general students in the understanding of science through helping them take part in exciting moments of scientific history.

PUT DEMOCRACY TO WORK—Ruth H. Wagner and Ivah E. Green—*Schuman*, 132 p., illus., \$3.00. Encouraging young people to have re-

spect for other peoples, races and religions and to work together to achieve a democratic way of life.

SALVAGING OLD PAVEMENTS BY RESURFACING—Robert H. Tittle, Chairman—*Highway Research Board*, 35 p., illus., paper, 60 cents. Lack of sufficient funds for new and reconstruction work has caused more and more states to resort to salvaging existing pavements.

SCIENCE AND THE LAND: 72d Annual Report, 1950-1951—New Jersey Agricultural Experiment Station—*Rutgers University*, 127 p., paper, free upon request to publisher, New Brunswick, N. J. Reporting results of the year's research.

TEXTBOOK OF ELECTROCHEMISTRY, Volume 1—G. Kortum and J. O'M. Bockris—*Elsevier*, 351 p., \$7.00. An English translation of a German text published in 1947. The work has been revised and the bibliography now includes many English language works.

A TEXTBOOK OF ORTHOPEDICS: With a Section on Neurology in Orthopedics—M. Beckett Howorth and others—*Saunders*, 1110 p., illus., \$16.00. A study of the diseases and abnormalities of the neuromusculoskeletal system with consideration of the patient as a whole, not just local condition.

Science News Letter, June 21, 1952

INVENTION

Patent Torpedo Computer And Marine Depth Finder

► A COMPUTER in a torpedo which figures out the course and speed of a target ship and corrects the torpedo's course to correspond has just been patented.

The "course interception navigational computer" receives information from the submarine at random intervals. It is designed to cooperate with equipment on the submarine, such as the periscope, radar, sonar, speedometer and compass. It includes a position keeper, which provides data with respect to the estimated position of the target.

A group of angle solvers continuously compute the proper angle of the torpedo gyroscopes on the basis of information obtained from the position keeper.

The computer was invented by William K. Ergen, Oak Ridge, Tenn., who assigned his patent, number 2,600,159, to the Radio Corporation of America.

A new depth finder which utilizes ultrasonic "noises," electronically controlled, also has been invented. Wayne M. Ross, Seattle, received patent number 2,599,586, and has assigned it to the Minneapolis-Honeywell Regulator Company.

This invention provides improved electronic circuits and circuit combinations which, according to Mr. Ross, simplify and lower the cost of depth finders. The depth finder works by directing recurring ultrasonic energy pulses toward the ocean bottom and then measuring the time it takes for the echo to get back. Knowing the velocity of sound in water, it is then easy to know how far down bottom is.

Science News Letter, June 21, 1952

YOUR SKIN AND ITS CARE

By A. I. Behrman, M.D., and U. L. Levin, M.D.

Two dermatologists give you the up-to-date scientific facts. They tell you in detail exactly what to do to beautify and improve your skin, how to avoid or correct skin disorders, and how to deal with many skin problems as: Daily care of the face—allergies—cosmetics—pimples—blackheads—acne—whiteheads—cysts—boils—oily skin—dry skin—chapping—poison ivy—cold sores—hives—superfluous hair—ringworm—moles—birthmarks—scars—warts—tumors—skin cancer—excessive sweating—etc.

"The type of book to which the physician can refer his patients."—*Journal of the American Medical Association*.

"Accurate, unvarnished story of practical skin care."—*Connecticut State Medical Journal*

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