

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.

ADVANCES IN CARBOHYDRATE CHEMISTRY: Volume 10—Melville L. Wolfrom, Ed.—*Academic*, 437 p., illus., \$10.50. Summarizing progress in this ever-growing field.

AIR CONDITIONING REFRIGERATING DATA BOOK: Design Volume—Milo M. Bolstad, Ed.—*American Society of Refrigerating Engineers*, illus., \$10.00 plus postage. Detailing fundamental data and basic engineering information concerning the theory and principles of refrigeration and air-conditioning equipment design.

AIRCRAFT BADGES AND MARKINGS—Harold B. Pereira—*Adlard Coles (John de Graff)*, 48 p., illus., \$1.50. For airplane spotters and those interested in aviation.

AIRCRAFT TODAY—John W. R. Taylor, Ed.—*Philosophical Library*, 96 p., illus., \$4.75. Containing articles on a wide variety of topics in the field of aviation.

ATOMIC ENERGY, THE NEW INDUSTRIAL FRONTIER—Edwin L. Zebroski, Robert Barlow, and Daniel J. Scherer, Eds.—*Atomic Industrial Forum and Stanford Research Institute*, 254 p., illus., paper, \$5.00. Proceedings of a meeting discussing peaceful uses of atomic energy in agriculture and industry.

ATOMIC POWER—Editors of Scientific American—*Simon and Schuster*, 180 p., illus., paper, \$1.00. Devoted to the peaceful uses of atomic power.

AUTOMATIC CONTROL—Editors of Scientific American—*Simon and Schuster*, 148 p., illus., paper, \$1.00. The facts you need to understand the present trend toward the day when factories may run themselves automatically.

BETTER HEALTH THROUGH BETTER LIVING—Fellows of the New York Academy of Medicine—*Dial*, 184 p., \$3.00. Answers to questions you might wish to ask your physician if either you or he had the time for conversation. For those concerned with health in the home.

BIOLOGY OF POLIOMYELITIS—Karl Habel, Chairman—*New York Academy of Sciences, Annals*, Volume 61, Art. 4, 328 p., illus., paper, \$5.00. Concerning the virus, and methods for its study and for protecting the community.

CAN A LARGE CITY BE DESTROYED BY FIRE AND FACTS ABOUT CONFLAGRATIONS—Joseph O'Hanlon—*O'Hanlon*, 54 p., paper, \$1.50. A retired assistant chief of New York's Fire Department here describes the greatest conflagrations of history, telling something of how such fires start and are eventually brought under

control. The author indicates that it would be "almost impossible" to destroy an entire large modern city even with a hydrogen bomb.

CARNEGIE CORPORATION OF NEW YORK ANNUAL REPORT—John W. Gardner, president—*Carnegie Corporation*, 92 p., illus., paper, free upon request direct to publisher, 589 Fifth Ave., New York, N. Y. This corporation, as big as all Carnegie's other trusts combined, reports how they distributed large sums of money. Part was used to encourage study of science and mathematics.

THE CHILD WITH RHEUMATIC FEVER—Govt. Printing Office, Children's Bureau, 13 p., illus., paper, 10 cents. Alerting parents to the danger signs so that early diagnosis and treatment can prevent serious harm.

THE COMMON SENSE OF THE EXACT SCIENCES—William Kingdon Clifford—*Dover*, 249 p., illus., paper, \$1.60, cloth, \$3.00. An inexpensive re-issue of a book used for 70 years as a guide to modern scientific and mathematical thought. The book includes prefaces and an introduction by James R. Newman, Karl Pearson, and Bertrand Russell.

THE DIABETIC'S COOKBOOK—Clarice B. Strachan—*Medical Arts Publishing Foundation*, 304 p., \$6.50. A practical book of menus and recipes for the diabetic. A feature is a series of tables of exchanges showing what the patient may give up from his diet in order to include some new dish he wants to try.

DISTILLATION IN PRACTICE—Charles H. Nielsen, Ed.—*Reinhold*, 133 p., illus., \$3.00. Designed to bring to young chemical engineers the practical engineering experience of successful men in industry.

THE DYNAMICS OF LIVING PROTOPLASM—L. V. Heilbrunn—*Academic*, 327 p., illus., \$6.50. Showing that present knowledge of the colloid chemistry of protoplasm can help interpret and explain some of the most puzzling and intriguing problems physiologists face.

AN ECOLOGICAL ANALYSIS OF THE INTERBREEDING OF CRESTED TITMICE IN TEXAS—Keith L. Dixon—*University of California Press*, 73 p., illus., paper, \$1.35. A study of the interbreeding of two species of titmice in those areas where their ranges overlap.

ECOLOGY, DISTRIBUTION, AND SYSTEMATICS OF FROGS OF THE RANA BOYLEI GROUP—Richard G. Zweifel—*University of California Press*, 70 p., illus., paper, \$1.25.

FACTORS RELATED TO FROST ACTION IN SOILS—John W. Guinnee and others—*Highway Research Board*, Bulletin 111, 110 p., illus., paper, \$2.25. Seven papers presented at the 34th annual meeting.

FIRST BOOK OF ANIMALS—Editors of Scientific American—*Simon and Schuster*, 240 p., illus., paper, \$1.00. Interesting facts about interesting animals in readable style.

FRONTIERS IN LABOR-MANAGEMENT RELATIONS—Robert C. Hendon and others—*American Management Association*, Personnel Series Number 164, 47 p., paper, \$1.75. Discussing problems raised by the 1955 contract between Ford and the United Auto Workers, as well as other similar agreements.

FUNDAMENTALS OF PRESS TOOL DESIGN—W. F. Walker—*Philosophical Library*, 152 p., illus., \$4.75. For the draftsman, mechanical engineer and student.

THE GIFT OF LANGUAGE—Margaret Schlauch—*Dover*, 342 p., illus., paper \$1.75, cloth \$3.50. Giving the romance of words and the life history of English. An unabridged edition of the book first published under the title, *Gift of Tongues*, by Viking.

THE HABIT OF TOBACCO SMOKING—W. Koskowsky—*Staples (John de Graff)*, 292 p., illus., \$5.00. The purpose is to present, not propaganda for or against tobacco, but an objective review of facts on the effects of tobacco on the human organism. The author is at Alexandria University, Egypt.

HELPING CHILDREN GET ALONG IN SCHOOL—Bess Goodykoontz—*Science Research Associates*, 48 p., illus., paper, 50 cents. A child's scholastic progress depends upon parents as well as teachers. One practical suggestion is a pre-school day in the spring for children who will enter next fall, so they can see where they will work and play and what their fellow students are like.

HYPNOTIC SUGGESTION: Its Role in Psychoneurotic and Psychosomatic Disorders—S. J. Van Pelt—*Philosophical Library*, 95 p., illus., \$2.75. Telling physicians about a method for treating psychoneurotic disorders by suggestion under hypnosis.

KINETIC THEORY OF LIQUIDS—J. Frenkel—*Dover*, 488 p., illus., paper \$1.95, cloth \$3.95. This inexpensive student edition is an unabridged edition of the first English translation published in 1946.

LABORATORY MANUAL FOR INTRODUCTION TO PHARMACY: A Revision of Laboratory Manual for Principles and Processes of Pharmacy—Henry M. Burlage, Joseph B. Burt, L. Wait Rising and William J. Sheffield—*Blakiston-McGraw-Hill*, 3d ed., 271 p., illus., paper, \$4.50. For students with advanced standing, as well as those coming direct from high school.

LIFE HISTORY AND CYTOLOGY OF THE FORAMINIFERAN ALLOGROMIA LATICOLLARIS—Zach M. Arnold—*University of California Press*, 65 p., illus., paper, \$1.25. An effort to increase the store of information on biological processes in the type genus of the family from which all other foraminiferan families presumably have been derived.

LOUIS AGASSIZ FUERTES: His Life Briefly Told and his Correspondence Edited—Mary Fuertes Boynton—*Oxford University Press*, 317 p., illus., \$7.50. Life and letters of a great painter of birds.

MAN AND ENERGY—A. R. Ubbelohde—*George Braziller*, 247 p., illus., \$5.00. The professor of thermodynamics at the University of London writes this account of man's growing power over energy, from the control of slave labor to use of atomic energy.

MANUAL DE MEDICINA TROPICAL—Thomas T. Mackie, George W. Hunter III and C. Brooke Worth—*La Prensa Medica Mexicana*, 2nd ed., 886 p., illus., \$12.00. The second Spanish edition of a current medical classic, the first edition of which was translated and made available with the cooperation of the U. S. Department of State through SCIENCE SERVICE, in order to aid medicine in Latin America.

THE MATHEMATICAL ANALYSIS OF ELECTRICAL AND OPTICAL WAVE-MOTION: On the Basis of Maxwell's Equations—H. Bateman—*Dover*, 159 p., illus., paper, \$1.60. Inexpensive edition of a book first published by Cambridge University Press. Intended as an introduction to some recent developments of Maxwell's electromagnetic theory.

MATTER AND LIGHT: The New Physics—Louis de Broglie, translated by W. H. John—*(Continued on p. 62)*

GEMSTONE COLLECTION: 30 Rough Specimens of Crystal Gems in individual compartments; pocket size, 4" x 5 1/2"; contains gems from all over the world; Ruby, Aquamarine, Amethyst, etc. Price, \$5.00 prepaid.

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Books of the Week

(Continued from p. 60)

ston—Dover, 300 p., illus., paper, \$1.60. Inexpensive reprint of a book first published in English in 1939. One chapter has the historic interest of having been delivered on the occasion when the author received the Nobel Prize.

THE NEW ASTRONOMY—Editors of Scientific American—Simon and Schuster, 243 p., illus., paper, \$1.00. Intended to make the general reader feel more at home in the universe of our time. Chapters originally appeared as articles in the *Scientific American*.

NUCLEAR MAGNETIC RESONANCE—E. R. Andrew—Cambridge University Press, 265 p., illus., \$6.50. For physicists, especially nuclear physicists, and others interested in the solid state.

NUTRITION IN INFECTIONS—W. Alan Wright, Chairman—New York Academy of Sciences, Annals, Volume 63, Art. 2, 171 p., illus., paper, \$4.00. Discussing the effects of parasitism, the role of vitamins and antibiotics, deficiency syndromes in the tropics and related problems.

ORGANIZATION, HISTOLOGY, AND CIRCULATORY PATTERN OF THE NEAR-TERM PLACENTA OF THE GUINEA BABOON, PAPIO CYNOCEPHALUS, DEMAREST—Howard H. Hillemann—Oregon State College, 20 p., illus., paper, \$1.00.

PANORAMA OF PROGRESS—Henry B. Allen, Ed.—Franklin Institute, special issue of Journal, Vol. 261, No. 1, 188 p., illus., paper, \$1.00. Honoring Franklin by publishing a series of papers planned to give a broad picture of the advances in the physical sciences since his birth 250 years ago.

PAPERS PRESENTED AT THE V.P.I. CONFERENCE ON NEW DEVELOPMENTS IN ENGINEERING DESIGN—H. M. Newmark and others—Virginia Polytechnic Institute, Engineering Experiment Station Series, No. 106, 107 p. in two parts, illus., paper, \$1.00.

PARTIAL DIFFERENTIAL EQUATIONS OF MATHEMATICAL PHYSICS—Arthur Gordon Webster, edited by Samuel J. Plimpton—Dover, 2d ed., 440 p., illus., paper, \$1.98. Inexpensive student edition of a classic in the science.

THE PHYSICS AND CHEMISTRY OF LIFE—Editors of Scientific American—Simon and Schuster, 270 p., illus., paper, \$1.00. Addressed to non-scientists and concerned with life as a physical process.

POLISH: Pronounce It Correctly—Waclaw Solski—Dover, 33-1/3 RPM long-playing record. With text leaflet, 89 cents. With phrase book, "Say It in Polish," \$1.49. For tourists who want to learn a few handy phrases.

PSYCHOTHERAPY AND COUNSELING—Lawrence

YOUR HAIR

Its Health, Beauty and Growth

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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—coloring—and myriad other subjects concerning hair.

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K. Frank and Rollo May, chairmen—New York Academy of Sciences, Annals, Volume 63, Art. 3, 108 p., illus., paper, \$3.50. Investigators from five professions describe their techniques and results.

READING AS A THINKING PROCESS—Emmett Albert Betts—Betts Reading Clinic, 9 p., paper, 40 cents. Emphasizing the importance of teaching children to understand the words they read instead of just pronouncing them.

SAY IT IN POLISH—Victor Raysman—Dover, 127 p., paper, 60 cents, with record \$1.49. A book of phrases useful to the traveler. The record provides pronunciations.

SEMIMICRO LABORATORY EXERCISES IN HIGH SCHOOL CHEMISTRY—Fred T. Weisbruch—Heath, 2d ed., 277 p., illus., paper, \$1.88.

SPECIAL EDUCATION FOR THE EXCEPTIONAL: Volume III, Mental and Emotional Deviates and Special Problems—Merle E. Frampton and Elena D. Gall, Eds.—Porter Sargent, 699 p., illus., \$5.50. Several of the papers presented here deal with the pressing problem of what schools can do to reduce juvenile delinquency.

THE SUN AND ITS INFLUENCE: An Introduction to the Study of Solar-Terrestrial Relations—M. A. Ellison—Macmillan, 235 p., illus., \$4.50. Bringing together recent discoveries in widely different fields concerning the connections between solar and terrestrial events. Weather is omitted.

A SURVEY OF DIRECT UTILIZATION OF WASTE WATERS—Robert C. Merz, Ed.—State Water Pollution Control Board, 80 p., illus., paper, limited number of copies free upon request to publisher, Room 610, 721 Capitol Ave., Sacramento 14, Calif. Reporting that some industrial plants have successfully shown waste water can be reclaimed for cooling and other plant uses.

TEMPERATURE: Its Measurement and Control in Science and Industry, Volume II—Hugh C. Wolfe, Ed.—Reinhold, American Institute of Physics, 467 p., illus., \$12.00. Papers presented at the Third Symposium on Temperature held in Washington, D. C., Oct. 28-30, 1954.

THE UNIVERSITY OF CALIFORNIA BOTANICAL GARDEN EXPEDITIONS TO THE ANDES (1935-1952): With Observations on the Phytogeography of Peru—T. H. Goodspeed and H. E. Stork—University of California Press, 55 p., illus., paper, \$1.25. The vegetation of Peru varies as much as does the terrain, ranging from desert along the coast to rain forest, and altitude from sea level to 20,000 feet.

Science News Letter, January 28, 1956

VETERINARY MEDICINE

Canine Heart Sufferers Helped by Vitamin E

➤ DOGS suffering from heart disease respond well to treatment with vitamin E, a Dublin, Ireland, veterinarian states in a report published by the Gaines Dog Research Center, New York.

In one series of tests using vitamin E therapy, Dr. N. H. Lambert found that, along with improved hearts, there were improvement in the dogs' general condition and restoration of normality in the skin and urogenital system.

Dr. Lambert points out that heart disease is relatively common in dogs, especially older animals that have been fed diets containing many of the foods their owners regularly eat.

Science News Letter, January 28, 1956

Questions

ASTRONOMY—How many days does Pluto take to rotate? p. 56.

DENTISTRY—What is the effective agent in toothpastes containing fluoride? p. 55.

MEDICINE—For what ailments do patients most often see doctors? p. 54.

Why might deaf persons be useful working near jets? p. 50.

NUTRITION—How can congenital abnormalities be produced in rats? p. 53.

PHYSIOLOGY—What can cause false positive tests for syphilis? p. 53.

PSYCHOLOGY—How can brief blackouts of epilepsy be detected? p. 56.

Photographs: Cover and p. 55, British Information Services; p. 50, University of Michigan; p. 51, Cornell University; p. 53, R. G. LeTourneau, Inc.; p. 54, Minneapolis-Honeywell; p. 64, E. I. du Pont de Nemours & Company.

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