

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.

AMUSEMENTS IN MATHEMATICS—Henry Ernest Dudeney—*Dover*, 258 p., illus., paper, \$1.25. Unabridged reprint of 1917 first edition.

ATMOSPHERIC EXPLORATIONS — Henry G. Houghton, Ed.—*Wiley & Technology Press*, 125 p., illus., \$6.50. Includes chapters on the electrification of clouds and raindrops, electric charges in thunderstorms, upper atmosphere meteorology and phenomena of radio scattering.

THE CAMPUS AND THE STATE—Malcolm Moos and Francis E. Rourke, assisted by Glenn Brooks and Leo Redfern—*Johns Hopkins Press*, 414 p., \$6. Thorough study of the relationships between state colleges and universities, and American state governments.

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CONSERVING NATURAL RESOURCES: Principles and Practice in a Democracy—Shirley Walter Allen—*McGraw*, 2nd ed., 370 p., illus., \$6.75. Text revision marks the changes in the conservation movement since 1955.

DEVELOPMENT, GROWTH, AND STATE OF THE ATOMIC ENERGY INDUSTRY: Hearings, 1959—Jt. Committee on Atomic Energy, U. S. Congress, Clinton P. Anderson, Chmn.—*Govt. Print. Off.*, 630 p., paper, \$1.75. Focus is on civilian atomic power programs and policies.

EVOLUTION OF NERVOUS CONTROL FROM PRIMITIVE ORGANISMS TO MAN: Symposium—Arranged by Bernard B. Brodie and Allan D. Bass, Ed.—*Am. Assn. for the Advancement of Science*, 231 p., illus., \$5.75. Portrays the impact of the evolutionary process upon the brain.

FUNDAMENTALS OF ORNITHOLOGY—Josselyn Van Tyne and Andrew J. Berger—*Wiley*, 624 p., illus., \$11.75. Textbook and reference work on families of birds, ornithological terms, bird behavior, song, distribution and migration; chapters followed by references.

HANDBOOK OF JOB FACTS—Guidance Services Dept., S. Dolores Branche, Ed.—*Science Res.*, 2nd ed., 160 p., illus., \$3.95. Vocational information on professional, semiprofessional, clerical, agricultural, skilled and manufacturing occupations.

HERE IS ALASKA—Evelyn Steffansson—*Scribner*, rev. Statehood ed., 178 p., photographs, \$3.50. Up-to-date information about the people, land, life and developments in the 49th State, beautifully illustrated.

INTRODUCTION TO THE LAKES: An Introduction to the Great Lakes and St. Lawrence Seaway—Frederick Louis Whitlark—*Greenwich Bk.*, 256 p., illus., \$3.95. A ship's surgeon tells of life, commerce, boats and installations on the Great Lakes.

LABORATORY MANUAL TO ACCOMPANY MORMENT'S GENERAL ZOOLOGY—H. Bentley Glass, Gairdner B. Moment and Neal A. Weber—*Houghton*, 293 p., illus., paper, \$3.75.

LOCOMOTIVES AND CARS SINCE 1900—Walter A. Lucas, Compiler & Ed.—*Simmons-Boardman*, 119 p., \$5. Pictorial survey of steam locomotives, electric, diesel and freight cars, designed so the model builder can construct his own scale models.

MATERIALS FOR NUCLEAR REACTORS—Bernard Kopeland, Ed.—*McGraw*, 411 p., illus., \$12. Comprehensive treatment of the atomic fuel cycle, and of the properties and behavior of important materials in reactors.

MECHANICAL MAN—Beril Becker—*Putnam*, 192 p., illus. by Gyula Zilzer, \$2.95. Traces the pattern of mechanical progress from Da Vinci, through the steam engine, early factories, the telegraph, the electric light, mass production, to the mechanical brain. For young readers.

NATURAL RESOURCES—Martin R. Huberty and Warren L. Flock, Eds.—*McGraw*, 556 p., illus., \$11. Series of lectures on recent developments in our renewable and nonrenewable resources, including topics such as air pollution control, photosynthesis, geophysical prospecting and fresh water from saline.

THE NEW PSYCHIATRY—Nathan Masor—*Philosophical Lib.*, 155 p., \$3.75. Critique of "orthodox psychiatry" with its reliance on the couch, in favor of biochemical and endocrinal approaches to mental health.

OLD CLOCKS—H. Alan Lloyd—*Benn (Essential Bks.)*, rev. ed., 176 p., illus., \$7.50. Describes British and Continental early clocks, mantel and long-case clocks, dials, night clocks and American clocks.

THE ORIGIN OF SPECIES BY CHARLES DARWIN: A Variorum Text—Morse Peckham, Ed.—*Univ. of Pa. Press*, 816 p., \$15. Includes all major additions, deletions and changes in style Darwin made as he wrote this definite work, re-writing many of his sentences four or five times.

PRINCIPLE OF RADIATION DOSIMETRY—G. N. Whyte—*Wiley*, 124 p., illus., \$7. Deals with the measurement of X-rays, gamma rays, charged particles and neutrons. Discusses new definitions specifying exposure dose and absorbed dose, as set forth by the International Commission on Radiological Units in 1956.

THE ROAD TO MAN—Herbert Wendt, transl. by Helen Sebba—*Doubleday*, 431 p., 200 photographs, \$5.95. Informal history of evolution, taking a trip through the animal kingdom, selecting characteristic examples. The Swiss author calls it a "kind of novel of the animal world."

STEREO: How It Works—Herman Burstein—*Gernsback*, 224 p., illus., \$5, paper \$2.90. Explains theory, operation, recording techniques, multiplexing, discs, tapes and other aspects of stereo.

STUDIES IN INVERTEBRATE MORPHOLOGY—Ernestine B. Thurman and others, J. F. Gates Clarke, Chmn.—*Smithsonian Inst.*, 416 p., illus., \$7.50. Original contributions published in honor of Dr. Robert Evans Snodgrass, on the occasion of his 84th birthday.

A SYMPOSIUM ON MOLECULAR BIOLOGY—Raymond E. Zirkle, Ed.—*Univ of Chicago Press*, 348 p., illus., \$7.50. Twenty papers on molecular research, showing the diversity of problems and of methods used in attacking them.

TARGET FOR TOMORROW: Space Travel of the
(continued on p. 30)

How to Be Incredibly Cool This Summer

Arthur Carson's *How to Keep Cool* describes practically every fast, low cost, scientifically right way known so you can cool off fast, and stay cool all summer long. With this book to guide you, there's simply no excuse any longer for sleepless nights or nerve-racked days when you just can't bear the heat any longer.

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There's full information on the many easy, inexpensive, practical things you can do inside and outside your home to bring sea breeze comfort without drafts. How a \$15 job in your insulation-less attic can change your bedroom from an oven to

an airy, comfortable place on the hottest nights. Why Venetian blinds offer little practical protection from the heat and what is much, much cooler. You learn how to get the last bit of use out of attic fans, dehumidifiers, the new low cost evaporative coolers (much less expensive than air conditioners and better if you live in the right part of the U. S. for their use), the different kinds of air conditioners, and how to make a low cost installation do the job of a more expensive one.

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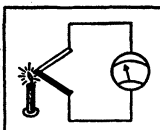
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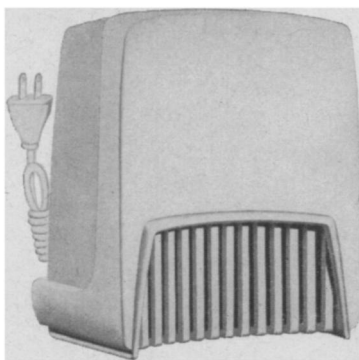
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available at bookstores, or order direct: SN-7

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Books of the Week

(continued from p. 28)

Future—I. M. Levitt—*Fleet Pub.*, 328 p., illus., \$4.95. The director of the Fels Planetarium of the Franklin Institute takes his readers into the world of interplanetary travel. Scientific facts in nontechnical language.

TUBERCULOSIS MEDICAL RESEARCH: National Tuberculosis Association 1904-1955—Virginia Cameron and Esmond R. Long—*Nat. Tuberculosis Assn.* 325 p., \$5. Story of pioneer medical research program, traced from its small beginnings to today's well-rounded program, includes 51-page bibliography.

USING CHEMISTRY—Oscar E. Lanford—*McGraw*, rev. ed., 738 p., illus., \$5.48. Introductory chemistry course, emphasizing basic principles, with extensive section on organic chemistry brought up to date.

WATER FACTS FOR THE NATION'S FUTURE: Uses and Benefits of Hydrologic Data Programs—Walter B. Langbein and William G. Hoyt—*Ronald Press*, 288 p., \$5. Sponsored by the Conservation Foundation, this is a survey of the achievements and shortcomings of federal and state programs for collecting, interpreting and publication of water data.

Science News Letter, July 11, 1959

Questions

ASTRONOMY—Where will the world's second largest telescope be located? p. 23.

GENETICS—What plant produced genes that appear to defy known genetic laws? p. 20.

PUBLIC HEALTH—How many persons now using central water supplies in the United States drink fluoridated water? p. 21.

Photographs: Cover, Lick Observatory; p. 19, Boeing Airplane Company; p. 21, Avion Division, ACF Industries; p. 23, Lederle Laboratories; p. 26, National Lumber Manufacturer's Association; p. 32, Stanley Electric Tools.

Do You Know

During 1958, the largest *iron-ore-producing* states were Minnesota, Michigan and Alabama, in that order.

A very hard rock called *taconite*, containing about 25% iron, is found abundantly in the Lake Superior region.

In 1958, out of every 14 *Japanese* students, nine were studying science and only five literature, as compared to 1957 when the proportion was reversed.

Dried sapodilla latex, or *chicle*, was first brought to Staten Island by the deposed dictator of Mexico, Santa Anna, with the hope of producing rubber.

If two billion of the world's population worked at full rate, their total yearly output would be equivalent to the *energy* in about 43,000,000 tons of coal.

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