

# 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.

**AGRICOLA ON METALS**—Bern Dibner—*Burndy Lib.*, 128 p., illus., paper, \$2.50. An attractive book about the famous classic "De Re Metallica" by Georgius Agricola which was translated by Herbert and Lou Henry Hoover. Agricola's work was a textbook on mining and metallurgical engineering 200 years ahead of the industrial revolution.

**ANALYTIC GEOMETRY**—Edwin J. Purcell—*Appleton*, 289 p., \$4.50. Presenting the subject as a logical system.

**ANALYTICAL PHOTOGRAMMETRY**—Everett L. Merritt—*Pitman*, 242 p., illus., \$7.50. To aid the reader in obtaining a general geometric understanding of the basic problems of photogrammetry.

**THE ARCTIC YEAR**—Peter Freuchen and Finn Salomonsen—*Putnam*, 438 p., illus., \$5.95. Source book on the Arctic arranged month by month. Written by an authority on the Arctic and an ornithologist and completed just before the death of Peter Freuchen.

**BASIC PHYSICS**—Alexander Efron—*Rider*, 692 p., illus., \$7.60. Text organized "psychologically" for the beginning physics student in high school.

**CONSERVATION IN THE PRODUCTION OF PETROLEUM: A Study in Industrial Control**—Erich W. Zimmermann—*Yale Univ. Press*, 417 p., illus., \$6. A study of a program that has been subject to much controversy.

**CONTROL OF THE PLANT ENVIRONMENT**—J. P. Hudson, Ed.—*Academic*, 240 p., illus., \$7.50. Proceedings of the University of Nottingham (England) Fourth Easter School in Agricultural Science, 1957.

**THE EFFECTS OF ATOMIC RADIATION ON OCEANOGRAPHY AND FISHERIES**—Roger Revelle, Chairman—*National Academy of Sciences-National Research Council*, Publication No. 551, 137 p., graphs, \$2. Summarizing present knowledge and areas of ignorance that must be taken into account in considering the biological effects of radiation.

**ELEMENTARY DIFFERENTIAL EQUATIONS**—Earl D. Rainville—*Macmillan*, 2d ed., 449 p., \$5.50. Much of the new material in this edition is intended to arouse or increase the student's desire to continue his studies beyond the scope of this work.

**ESSENTIALS OF PHYSICAL SCIENCE**—John De Vries with assistance of Donald C. Boardman—*Eerdmans*, 375 p., illus., \$6.95. With two objectives: To present the basic principles of physics and to place "emphasis on the relation of the basic facts of science to our commitments as Christians."

**FIGURETS: More Fun With Figures**—J. A. H. Hunter—*Oxford Univ. Press*, 116 p., \$3.50. For those who enjoy puzzles and games involving figuring.

**THE FIRST BOOK OF TROPICAL MAMMALS**—Helen Hoke—*Franklin Watts*, 63 p., illus. with drawings by Helene Carter, \$1.95. Telling children about exotic animals of other parts of the world.

**FROM EARTHQUAKE, FIRE AND FLOOD**—R. Hewitt—*Scribner*, 215 p., illus., \$3.95. Against the wilder caprices of weather, the author points out, and the monumental display of natural force, our armor is still thin and our defenses weak.

**GASEOUS CONDUCTORS: Theory and Engineering Applications**—James Dillon Cobine—*Dover*, 606 p., illus., paper, \$2.75. An unabridged republication of the first edition of 1941 with corrections by the author.

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**GRAPHIC METHODS IN STRUCTURAL GEOLOGY**—William L. Donn and John A. Shimer—*Appleton*, 183 p., illus., \$4. Primarily for the undergraduate but also a reference work for the graduate student and professional geologist.

**THE GROWTH OF LOGICAL THINKING FROM CHILDHOOD TO ADOLESCENCE: An Essay on the Construction of Formal Operational Structures**—Bärbel Inhelder and Jean Piaget, translated by Anne Parsons and Stanley Milgram—*Basic Bks.*, 356 p., illus., \$6.75. Based on firsthand observational and experimental studies with some 1,500 boys and girls.

**LABORATORY STUDIES IN INTEGRATED ZOOLOGY**—Cleveland P. Hickman and Frances M. Hickman—*Mosby*, 353 p., illus., paper, \$3.75. For a one-year course in zoology based on three to four hours of laboratory work a week. Not emphasizing original drawings.

**A MANUAL FOR NEANDERTHALS**—H. Mewhinney—*Univ. of Tex. Press*, 122 p., illus., \$3.50. The author assures you that with patience and this handbook you can learn to make your own stone-age implements and you can also learn to distinguish fake artifacts from the genuine article.

**MINERALS YEARBOOK 1954: Volume I, Metals and Minerals (Except Fuels)**—Staff, Division of Minerals—*Govt. Printing Office*, U. S. Bureau of Mines, 1419 p., graphs, \$4.50. Based largely upon information obtained from mineral producers, processors and users.

**MINERALS YEARBOOK 1954: Volume III, Area Reports**—Field Staff, Regional Divisions of Mineral Industries—*Govt. Printing Office*, U. S. Bureau of Mines, 1179 p., graphs, \$4. Includes a statistical summary chapter and one covering employment and injury data.

**MOLECULAR PHYSICS: Volume I, Number 1, January 1958**—H. C. Longuet-Higgins, Ed.—*Academic*, 98 p., paper, \$3.50 per part, \$13.30 per year (4 issues). Founded to bring together papers on the physics of molecules, of interest to chemists as constituting the basis of chemical theory.

**MORPHOLOGICAL INTEGRATION**—Everett C. Olson and Robert L. Miller—*Univ. of Chicago Press*, 317 p., illus., \$10. The central theme is the concept of the organism as an integrated, functional unit.

**NATIONAL REGISTER OF SCHOLARSHIPS AND FELLOWSHIPS: Volume II, 1958-59 Fellowships and Grants**—Juvenal L. Angel—*World Trade*, 2d ed., 232 p., \$12. To serve students who must have financial assistance to continue their education.

**THE PLANET JUPITER**—Bertrand M. Peck—*Macmillan*, 283 p., illus., \$8.50. Bringing together numerous results of observation of this largest of our planets.

**THE SOURCES OF INVENTION**—John Jewkes, David Sawers and Richard Stillerman—*Mac-*

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millan, (St. Martins) 428 p., \$6.75. Attempting to throw light on where and under what conditions industrial inventions have arisen in modern times and what economic conditions may be expected to stimulate such new ideas.

THE STORY OF HUMAN EMOTIONS: From a Teen Age Viewpoint—George M. Lott—*Philosophical Lib.*, 228 p., illus., \$4.95. To give the general reader and young student basic information about mental health.

SYSTEMATIC SOCIOLOGY: An Introduction to the Study of Society—Karl Mannheim, edited by J. S. Erös and W. A. C. Stewart—*Philosophical Lib.*, 169 p., \$6. Based on lectures the author gave in London after he was exiled by Hitler.

TEST METHODS WITH PLANT-REGULATING CHEMICALS—John W. Mitchell, George A. Livingston and Paul C. Marth — *Govt. Printing Office*, USDA Agriculture Handbook No. 126, 68 p., illus., paper, 40¢. A step-by-step description of experiments useful to science students, science club members and other experimenters with plants.

TIMBER RESOURCES FOR AMERICA'S FUTURE—*Govt. Printing Office*, Forest Service Forest Resource Report No. 14, 713 p., illus., \$7. Showing that the United States is not faced with an acute timber shortage although there is little danger that timber will become a surplus crop.

WILD ANIMALS OF THE FAR WEST—Adrien Stoutenburg—*Parnassus*, 150 p., illus. with drawings by Ruth Robbins, \$3.75. "Reading for fun" with lovely illustrations.

YOUR CHILD'S EMOTIONAL HEALTH—Anna W. M. Wolf—*Public Affairs Committee*, Public Affairs Pamphlet No. 264, 28 p., illus., paper, 25¢. To help parents in aiding their children to reach emotional security.

Science News Letter, April 12, 1958

#### METEOROLOGY

### Helicopter Used to Make First Mock Tornado

➤ A HELICOPTER flying low and slow was used to simulate the nation's first mock tornado in a drill that alerted the entire population of Sedgwick County, Kansas, in which Wichita is located.

The test's aim was to save lives at some future date if a real tornado strikes. The area lies in the heart of the tornado belt.

The warning network worked beautifully, Weather Bureau officials reported. The test was held April 1.

Any town can organize a local tornado reporting and warning network. Local Weather Bureau personnel cooperate with all interested groups in setting them up.

Bureau officials in Washington, D.C., say plans have also been discussed for organizing test drills for hurricanes and floods, although nothing definite is underway at the present. Aim of such drills would be the same as in the successful mock tornado test: to save lives.

Any kind of network, however, requires action by public-spirited citizens who will promptly report dangerous weather conditions to the nearest Weather Bureau office, police station or other local center.

There are certain definite rules to follow when severe weather strikes. Knowing what to do then may mean the difference between life and death.

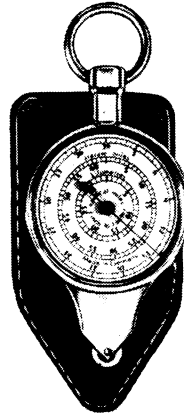
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