

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 ARTIFICIAL SATELLITE—L. J. Carter, Ed.—*British Interplanetary Society*, 73 p., illus., paper, 75 cents. Papers presented at the Second International Congress on Astronautics tell how such a satellite could be maintained and how travel could be effected between one satellite orbit and another and how space ships could be designed, made and serviced.

THE ATMOSPHERE—Peter Hood—*Oxford University Press*, 64 p., illus., \$2.50. A picture book telling young people about the ocean of air in which we live, its weather and clouds.

BEGINNING ELECTRICITY—J. R. Eaton—*Macmillan*, 365 p., illus., \$5.50. Directed to "Anyone who is not an electrical engineer."

CHILDHOOD EXPERIENCE AND PERSONAL DESTINY: A Psychoanalytic Theory of Neurosis—William V. Silverberg—*Springer*, 289 p., \$4.50. Presenting the thesis that mental illness can be traced to harmful experiences occurring between birth and the age of six.

CONTROL HIGH BLOOD PRESSURE AND LIVE LONGER—Heriman Pomeranz—*Eton*, 239 p., illus., paper, 35 cents. For the layman who suffers from high blood pressure, telling him what to avoid and what he can do without harm.

A COURSE IN COLLEGE CHEMISTRY—V. R. Damerell—*Macmillan*, 587 p., illus., \$5.50. A text for beginning college students, particularly non-chemists such as home economics majors.

DIRECTORY OF AMERICAN COUNCIL OF COMMERCIAL LABORATORIES INC.: 1952 Edition—*American Council of Commercial Laboratories*, 73 p., paper, free upon request to publisher, 4302 East-West Highway, Washington 14, D. C. Listing the laboratory members, with their staff and activities.

EFFECT OF AGING ON THE SOUNDNESS OF REGULARLY HYDRATED DOLOMITIC LIME PUTTIES—Lansing S. Wells, Walter F. Clarke and Ernest M. Levin—*Govt. Printing Office*, NBS Building Materials and Structures Report 127, 14 p., paper, 15 cents.

EFFECTS OF ATOMIC RADIATIONS ON LIVING ORGANISMS: Twelfth Annual Biology Colloquium—Curt Stern, Leader—*Oregon State Chapter*

of Phi Kappa Phi, 52 p., illus., paper, 75 cents. Informal discussion of an important modern problem. Includes reports on radiation genetics, radiation measurement, effects on plants, biochemical aspects of radiation injury and medical planning for atomic defense.

THE FIRST BOOK OF AIRPLANES—Jeanne Bendick—*Franklin Watts*, 69 p., illus., \$1.75. A book for children about airplanes and the men who fly them.

THE FIRST BOOK OF FISHING—Steven Schneider—*Franklin Watts*, 44 p., illus., \$1.75. Telling the young fisherman what he needs to know about his rod, line, hooks, reels and bait as well as how to identify his catch and the fish he can buy.

THE FLORA OF GUATEMALA—Paul C. Standley and Julian A. Steyermark—*Chicago Natural History Museum*, 432 p., illus., paper, \$4.50.

HIGH WATER AT CATFISH BEND—Ben Lucien Burman—*Messner*, 121 p., illus., \$2.75. Children will like this entertaining animal story and their elders will appreciate the satire directed at the failure of humans to solve the problem of flood control until the wild creatures showed them how.

MODERN PHYSICAL SCIENCE—William O. Brooks and George R. Tracy—*Holt*, 586 p., illus., \$3.80. A textbook for the general education student, giving him some knowledge of the "consumer aspects of science."

MORPHOGENESIS: An Essay on Development—John Tyler Bonner—*Princeton University Press*, 296 p., illus., \$5.00. Considering size and patterns of growth and differentiation in various kinds of organisms.

THE NATURE OF SOME OF OUR PHYSICAL CONCEPTS—P. W. Bridgman—*Philosophical Library*, 64 p., \$2.75. In these lectures, given at the University of London, a Nobel prize examines some fundamental concepts of physics, including those relating to field and empty space, thermodynamics and the conduction of electricity.

PREHISTORIC EUROPE: The Economic Basis—J. G. D. Clark—*Philosophical Library*, 349 p., illus., \$12.00. Telling how early man managed to make a living from the end of the Ice Age up to historic times.

STUDIES OF PACIFIC ISLAND PLANTS: X, The Meliaceae of Fiji, Samoa and Tonga—A. C. Smith—*Govt. Printing Office*, U. S. National Herbarium, Vol. 30, Part 4, 53 p., paper, 50 cents.

A STUDY OF WRITING: The Foundations of Grammatology—I. J. Gelb—*University of Chicago Press*, 295 p., illus., \$5.00. Intended to lay a foundation for a new science of writing which will attempt to establish general principles governing the use and evolution of writing.

THEORETICAL MODELS AND PERSONALITY THEORY—David Krech and George S. Klein, Eds.—*Duke University Press*, 142 p., illus., \$2.50. Psychologists have been looking for some way to avoid mere fact-gathering and have tried to find a means of fruitfully linking all sorts of

data. The attempt to theorize models of behavior, it is hoped, will serve to make more useful the contacts between scientists of different fields.

THERMOSTABILIZATION OF SHELL EGGS: Quality Retention in Storage—Harry E. Goresline, Kirby M. Hayes and Alfred W. Otte—*Govt. Printing Office*, USDA Circular No. 898, 12 p., illus., paper, 5 cents. Showing that the rate of deterioration of shell eggs in storage can be retarded by heating the eggs to 134 degrees F.

Science News Letter, June 7, 1952

AERONAUTICS

Rotating Red Lights Will Aid Night-Flying Safety

► ROTATING RED lights on the tail stabilizer of airliners are to be installed soon on all planes of United Air Lines as a safeguard in night flying.

These lights will not only warn other planes of the presence of an approaching plane in the air but also will indicate if the two planes are at the same altitude.

In the new installations, a sealed-beam, 100-watt lamp of approximately 18,000 candlepower is mounted under a red plastic dome atop the tail. Two reflectors are suspended over the lamp and revolve at 60 revolutions per minute. They cast fan-wise beams 180 degrees apart in the horizontal plane.

One beam is 30 degrees below the horizontal plane, the other 30 degrees above. Both beams overlap five degrees at the horizontal. The result is that the light flashes only once a second to a plane at a distance above or below it, but twice a second to a plane at the same altitude.

Science News Letter, June 7, 1952

METEOROLOGY

Salt Particles, Pollen Help Trace Air Currents

► WEATHERMEN CAN tell something about where the weather is coming from by finding out what else is in the atmosphere besides air and water.

Three scientists from the New Mexico Institute of Mining and Technology, Socorro, showed this by flying across the continent, taking counts of the amount of chloride particles and pollen they found in the atmosphere around the plane. Chloride is found in sea salt.

They were able to tell whether the air currents they were flying in came from the Pacific or the Gulf, or whether the air had come up from the surface by noting the number and kind of particles they collected.

The scientists were Dr. W. D. Crozier, B. K. Seely and L. B. Wheeler and they reported their findings in the BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY (March).

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