

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.

ANALYZING PSYCHOTHERAPY—Solomon Katzenbogen—*Philosophical Lib.*, 126 p., \$3. A psychiatrist presents concisely what he practices in psychotherapeutic sessions.

ANATOMIST AT LARGE: An Autobiography and Selected Essays—George W. Corner—*Basic Bks*, 215 p., \$4. An informal autobiography of an eminent biologist.

ANIMAL CLOSE-UPS—Theodore McClintock—*Abelard-Schuman*, 160 p., illus. with photographs by Desider Holisher, \$3.50. A picture book for the animal lover.

ARCHEOLOGICAL INVESTIGATIONS AT THE MOUTH OF THE AMAZON—Betty J. Meggers and Clifford Evans—*Govt. Printing Office*, Smithsonian, Bureau of American Ethnology Bulletin 167, 664 p., 112 pl., illus., \$5. Report of an archaeological expedition in a part of the world where a dugout canoe is the most practical form of transportation.

ARCTIC BIOLOGY: Eighteenth Annual Biology Colloquium—Henry P. Hansen, Ed.—*Oregon State College*, 134 p., illus., paper, \$2.50.

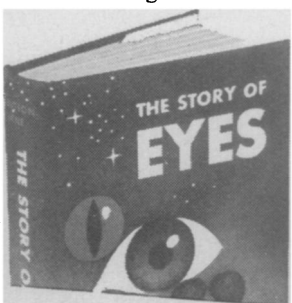
ATLAS OF THE SKY—Vincent de Callatay, translated and preface by Sir Harold Spencer Jones—*Macmillan (St. Martin's)*, 157 p., illus., \$12.50. With beautiful photographs and an abundance of star maps.

BASIC ELECTRICITY—Abraham Marcus—*Prentice-Hall*, 493 p., illus., \$4.85. A text for beginners.

The complete illustrated story of the evolution of sight

by S. SUTTON-VANE
Illustrated by Anthony Ravielli

Beginning with the first light-sensitive microscopic undersea creatures, and continuing through the ages to the highly complex human eye, this fascinating story unfolds. The author discusses current changes in man's eyes and speculates on possible future developments when man enters space. Beautifully detailed drawings. \$3.50



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BIOLOGY: A BASIC SCIENCE—Elwood D. Heiss and Richard H. Lape—*Van Nostrand*, 648 p., illus., \$4.88. A first text based on the interests of the student.

BIOLOGY FOR YOU—B. B. Vance and D. F. Miller—*Lippincott*, 4th ed., 654 p., illus., \$4.80. A high-school text.

THE BIOTIC WORLD AND MAN—Lorus J. Milne and Margery J. Milne—*Prentice-Hall*, 2d ed., 530 p., illus., \$7.95. A beautifully illustrated text for beginners.

CLOUD STUDY: A Pictorial Guide—F. H. Ludlam and R. S. Scorer—*Macmillan*, 80 p., illus., \$2.95. To help you to recognize and understand the meaning of various types of clouds.

COLLEGE PHYSICAL SCIENCE—Wendell H. Slabaugh and Alfred B. Butler—*Prentice-Hall*, 496 p., illus., \$7.95. Within this text are unit groupings that could be selected as the basis for shorter courses.

THE COSMIC RADIATION—J. E. Hooper and M. Scharff—*Wiley*, 172 p., illus., \$2.75. An introduction to the subject suitable for students and physicists in other fields.

DYNAMICS OF BEHAVIOR—Robert S. Woodworth—*Holt*, 403 p., illus., \$5. Based largely on a lecture course by the author at Columbia University, entitled "Dynamic Psychology."

EARTH'S SHIFTING CRUST: A Key to Some Basic Problems of Earth Science—Charles H. Hapgood with collaboration of James H. Campbell, foreword by Albert Einstein—*Pantheon*, 438 p., graphs, \$6.50. Presenting material supporting the author's displacement theory. The Einstein foreword was written for the manuscript sent to him in May, 1953.

ELECTRONIC EXPERIMENTER'S HANDBOOK: 63 Useful Projects for your Home and Shop, Hi-Fi, Darkroom, Hamshack—Harvey Pollack and others—*Ziff-Davis*, 194 p., illus., paper, \$1.

EXTINCT AND VANISHING BIRDS OF THE WORLD—James C. Greenway Jr.—*Am. Committee for International Wild Life Protection*, 518 p., illus., \$5. In order to try to prevent the total disappearance of threatened species, a thorough study of nearly extinct ones is recommended.

FACTS ABOUT PHARMACY AND PHARMACEUTICALS—*Health News Institute*, 138 p., illus., paper, \$1.25. Facts and statistics.

FOUNDATIONS OF PHYSICS—Robert Bruce Lindsay and Henry Margenau—*Dover*, 542 p., paper, \$2.45. A bridge between works for the general reader and technical treatises for specialists. New, corrected edition of a work first published in 1936.

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FROM QUEENSLAND TO THE GREAT BARRIER REEF: A Naturalist's Adventures in Australia—Noel Monkman—*Doubleday*, 182 p., illus., \$4.50. The author is not only a naturalist but an excellent photographer both on the ground and under the sea.

HEALTH FOR EFFECTIVE LIVING—Edward B. Johns, Wilfred C. Sutton and Lloyd E. Webster—*McGraw-Hill*, 2d ed., 507 p., illus., \$5.75. A college text.

HEALTH STATISTICS: Preliminary Report on Volume of Dental Care United States July-September 1957—Jane W. Bergsten—*Govt. Printing Office*, 25¢. Showing that only 36% of the population had visited a dentist during the previous year.

INTRODUCTION TO THE BACTERIA—C. E. Clifton—*McGraw-Hill*, 2d ed., 558 p., illus., \$7.50. A text for the general student.

LESSER WORLDS—Nesta Pain—*Coward-McCann*, 244 p., illus. with drawings by J. Yunge Bateman, \$3.75. A book for laymen about ants and other small creatures.

MORE LIGHT ON THE DEAD SEA SCROLLS: New Scrolls and New Interpretations with Translations of Important Recent Discoveries—Millar Burrows—*Viking*, 434 p., illus., \$6.50. Showing that fears with regard to the effect of the new discoveries on religious beliefs are needless.

THE MUSHROOM HUNTER'S FIELD GUIDE—Alexander H. Smith—*Univ. of Mich. Press*, 197 p., illus., \$4.95. Beautiful illustrations will help you distinguish the safe mushrooms from the poisonous ones. A list is included of those safe for beginners.

NUCLEAR REACTOR EXPERIMENTS—J. Barton Hoag, Ed.—*Van Nostrand*, 480 p., illus., \$6.75. To introduce scientists and engineers to the problems of designing, constructing and operating nuclear reactors. By the staff of Argonne National Laboratory.

OF STARS AND MEN: The Human Response to an Expanding Universe—Harlow Shapley—*Beacon Press*, 157 p., \$3.50. For the general reader rather than the astronomer, this little book, the author indicates, is a tentative obituary of the idea that man is the center of the universe. He also says that there may be more than 100,000,000 planetary systems suitable for organic life.

PHYSICS AND PHILOSOPHY: The Revolution in Modern Science—Werner Heisenberg—*Harper*, 206 p., \$4. Discussing the possible effects of introducing modern scientific instruments into the social atmospheres of the ancient East, the Middle East and Africa.

PROGRAMMING FOR AN AUTOMATIC DIGITAL CALCULATOR—Kathleen H. V. Booth—*Academic*, 238 p., \$7.50. An account of some of the routines used on APEXC, the machine at Birkbeck College, London.

THE ROCKET PIONEERS: On the Road to Space—Beryl Williams and Samuel Epstein—*Messner*, 241 p., illus., \$3.75. Biographical material on those who have contributed importantly to the science of rocketry.

SCIENCE: Grade 4—Victor C. Smith—*Lippincott*, 96 p., illus., paper, 88¢. Emphasizing the laboratory and activity approach to learning science.

SCIENCE WORKBOOK: Grade 1—Victor C. Smith—*Lippincott*, 64 p., illus., paper, 64¢. Simple science experiments for first graders.

SCIENCE WORKBOOK: Grade 2—Victor C. Smith—*Lippincott*, 64 p., illus., paper, 64¢. Scientific fun for youngsters.

SCIENCE WORKBOOK: Grade 3—Victor C. Smith—*Lippincott*, 64 p., illus., paper, 64¢. Science for the very young.

SECOND-RATE BRAINS—Kermit Lansner, Ed.—*Doubleday*, 96 p., paper, \$1.50. A compilation of writings and interviews edited by the general editor of Newsweek.

A SHORT HISTORY OF ANATOMY FROM THE GREEKS TO HARVEY—Charles Singer—Dover, 209 p., illus., paper, \$1.75. An unabridged republication of the 1957 edition.

SNAKES IN FACT AND FICTION—James A. Oliver—Macmillan, 199 p., illus., \$4.95. By the curator of reptiles at the New York Zoological Society.

STANDARD METHODS OF CLINICAL CHEMISTRY: Volume II—David Seligson, Ed.—Academic, 217 p., graphs, \$5.50. Describing methods useful to the clinical chemist.

THE THEORY OF FUNCTIONS OF A REAL VARIABLE AND THE THEORY OF FOURIER'S SERIES: Volume I—E. W. Hobson—Dover, 3d ed., 736 p., paper, \$6. New edition for students of the work published in 1921. It first appeared in one volume in 1907.

THE THEORY OF FUNCTIONS OF A REAL VARIABLE AND THE THEORY OF FOURIER'S SERIES: Volume II—E. W. Hobson—Dover, 778 p., paper, \$3.

Science News Letter, May 17, 1958

ENTOMOLOGY

"Scent Waves" Lure Insects to Their Doom

► ENTICING "scent waves" are luring insect pests to their doom.

The wandering gypsy moth or hungry Mediterranean fruit fly may think it is on the trail of a female moth—or a good dinner—but chances are the scent is a trap. The smell is probably one of many natural and synthetic attractants developed by U. S. Department of Agriculture scientists as weapons to combat insect pests.

The attractant can be used in two main ways: it lures the insect to baited traps or, mixed with insecticides, lures the insect to eat the deadly bait. USDA scientists used the first method in their gypsy moth eradication program in New York, New Jersey and Pennsylvania. Male moths were lured from distances of at least a half mile. Trapped, they provided scientists with means of checking just how successful insecticide sprays were when applied this season. Future estimates of needs for spraying can be made.

Chemists are screening hundreds of natural plant materials and many organic synthetics in the hope of turning up new attractants. Common weeds, obnoxious plants, vegetables and flowers are all being investigated.

When working with synthetics, the chemists usually begin without knowing if they will find an attractant. Sometimes 100 or more related compounds will be tested to make sure no possibility is overlooked. In this way scientists prepared three related organic compounds, each one better than the last, to use as attractants in Florida's battle against the Mediterranean fruit fly. The best one, also being used to replace the natural attractant angelica-seed oil, is the sec-butyl ester of 6-methyl-3-cyclohexene-1-carboxylic acid.

Science News Letter, May 17, 1958

Funkiko, Formosa, holds the rainfall record for two days at 65.8 inches and for three days at 81.5 inches, both established in the same storm in 1913.

ENTOMOLOGY

Insect Danger May Grow

► INSECT PESTS, if not surplus crops, may soon be troubling the farmer who participates in the Soil Bank Program and keeps some of his acreage out of production.

Grasshoppers, aphids, cutworms, leafhoppers and Japanese beetles are some of the destructive insects that are likely to thrive on this reserve land.

"General surveillance" has become the watchword for Federal, state and local scientists studying insect conditions.

Some 28,000,000 acres of reserve land offer a great deal to insect pests. Numbers of cutworms, wireworms, European chafer, corn flea beetles are likely to build up in sod or fallow land and damage crops planted later.

Thrips and aphids probably will increase on the grasses and soil-building legumes substituted for basic crops. The pea aphid, for example, develops on alfalfa and may migrate to and severely damage peas.

The probable increase in destructive insects will be aided by favorable host plants, greater variety of food plants and a more generally desirable habitat which includes more trees planted under the conservation reserve part of the Soil Bank Program.

Some beneficial insects, such as bees and insect parasites and predators, can be expected to profit from the undisturbed land. Reserve acreage might also be useful as trap crop areas. Migratory insects could be controlled by spraying fields when they moved in.

The U. S. Department of Agriculture points out that nationwide observation of insect conditions has become more important. The problem is not a matter of local control. It will also be essential to keep larger areas informed on "significant changes" in insect populations.

Science News Letter, May 17, 1958

Electrostatic Generators
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