

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.

AVIATION FACTS AND FIGURES 1956—Ben S. Lee, Ed.—*Aircraft Industries Association of America (Lincoln Press)*, 103 p., illus., paper, \$1.00. Standard statistical reference book on the aircraft industry.

CHAZYAN AND RELATED BRACHIOPODS — G. Arthur Cooper—*Smithsonian, Miscellaneous Collections, Volume 127, Part I, Text, Part II, Plates*, 1245 p., illus., \$20.00 for two-volume set. A natural sequel to the brachiopods of the Ozarkian and Canadian periods.

CLINICAL STUDIES IN PSYCHIATRY — Harry Stack Sullivan, edited by Helen Swick Perry, Mary Ladd Gawel and Martha Gibbon with a foreword by Dexter M. Bullard—*Norton*, 386 p., \$5.50. Based on lectures given by the late Dr. Sullivan and preserved on recordings.

AN EVALUATION OF THE NEWER PSYCHOPHARMACOLOGIC AGENTS AND THEIR ROLE IN CURRENT PSYCHIATRIC PRACTICE—Franco Rinaldi and others—*American Psychiatric Association, Psychiatric Research Reports 4*, 129 p., illus., paper, \$2.00. Papers presented at a Regional Research Conference.

A FIELD GUIDE TO THE FERNS: And Their Related Families—Boughton Cobb—*Houghton Mifflin, The Peterson Field Guide Series*, 281 p., illus., \$3.75. Spanning the interests of both beginner and expert. There are only a hundred or so ferns, so the amateur, if he makes the effort, can learn to know them all.

FLOW OF GASES THROUGH POROUS MEDIA—P. C. Carman—*Academic*, 182 p., illus., \$6.00. Approached from the viewpoint of the Kozeny theory.

GENERAL CHEMISTRY—John Arrend Timm—*McGraw-Hill*, 3d ed., 636 p., illus., \$6.00. An introductory text for both those who plan to take advanced courses and those who are taking chemistry as part of a liberal arts program.

THE HERITAGE OF COMMUNITY: A Critique of Community Living Based on Great Ways of Life Practiced by Small Communities Over the World — Arthur E. Morgan and Griscom Morgan, Eds. — *Community Service*, 64 p., paper, \$1.00. Descriptions of some ancient communities where a good life was developed.

HUMAN OVULATION AND FERTILITY—Edmond J. Farris—*Lippincott*, 159 p., illus., \$6.50. The information contained in this book has helped many childless couples to have a baby.

HYDRODYNAMICS—Hugh L. Dryden, Francis D. Murnaghan and H. Bateman—*Dover*, 634

p., paper, \$2.50. Offering a complete coverage of classical hydrodynamics. An extensive bibliography is included.

INVESTIGATIONS ON THE THEORY OF THE BROWNIAN MOVEMENT—Albert Einstein, edited with notes by R. Furth, translated by A. D. Cowper—*Dover*, 122 p., paper, \$1.25. Five papers gathered from rare German periodicals.

IRISH MOSS: In the Maritime Provinces — Constance I. Macfarlane — *Nova Scotia Research Foundation*, 20 p., illus., paper, free upon request direct to publisher, P.O. Box 1027, Halifax, Nova Scotia, Canada. Written to assist those who may wish to identify this abundant seaweed, find it, and dry it for market.

PLASTICS IN THE SERVICE OF MAN—V. E. Yarsley and E. G. Couzens—*Penguin*, 315 p., illus., paper, 85 cents. Concentrating on what plastics do rather than how they do it.

THE PRINCIPLES OF MECHANICS PRESENTED IN A NEW FORM—Heinrich Hertz, preface by H. Von Helmholtz, authorized English translation by D. E. Jones and J. T. Walley with a new introduction by Robert S. Cohen—*Dover*, 274 p., paper \$1.75, cloth \$3.50. The last work of this 19th century physicist and mathematician.

THE ROCK SHELTER OF LA COLOMBIERE: Archaeological and Geological Investigations of an Upper Perigordian Site Near Poncin (Ain)—Hallam L. Movius, Jr. and Sheldon Judson with a report on the fauna by Henri Gauthier and a French Resume by Francois H. Bordes—*Peabody Museum, American School of Prehistoric Research Bulletin No. 19*, 176 p., illus., paper, \$4.85. The ancient hunters who took shelter in this cave had outstanding artistic ability.

A TREATISE ON SURVEYING—Reginald E. Middleton and Osbert Chadwick, W. Fisher Cassie, Ed.—*Philosophical Library*, 6th ed., Vol. I, 381 p., Vol. II, 438 p., illus., \$20.00 per set. A text for universities and engineering colleges.

Science News Letter, July 7, 1956

MEDICINE

Kidney Test Can Be Given in Doctor's Office

➤ A SAFE, rapid kidney-function test, with little or no discomfort, that can be given in a doctor's office was reported at the American Urological Association meeting in Boston.

The test, developed at the University of California at Los Angeles Medical Center, is performed in 10 to 15 minutes. It employs a radioactive iodine tagged material, Diodrast, scintillation counters and electronic equipment.

The test substance is injected intravenously. Scintillation counters placed over kidney areas measure radioactivity and thus indicate rates of uptake and excretion of test material.

Electronically recorded data, called renograms, accurately indicate each kidney's blood supply, function, and whether the upper urinary passages are open or ob-

structed by stones, tumors or infections. Certain kidney abnormalities have characteristic "renograms."

Present kidney tests involve time-consuming X-ray and special diagnostic surgical procedures to obtain urine specimens from each kidney.

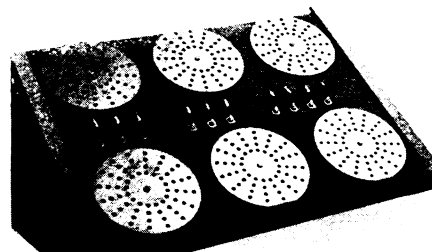
The study was a cooperative effort among the U.C.L.A. Atomic Energy Project and Medical School and the Los Angeles Veterans Administration Center. The research team included Drs. G. V. Taplin, Chester Winter, O. M. Meredith and Harold Kade with the cooperation of Drs. Franz Bauer and William Goodwin.

Science News Letter, July 7, 1956

Learn to Design COMPUTERS

—With Our New Course—

For the professional scientist or for the beginner in circuit design this course, complete with kit of parts, texts, manuals and study guide will introduce you to design and construction of computing, problem solving, logical, and game playing equipment.



GENIAC® IN ASSEMBLY RACK

We supply all components and parts for more than 33 machines, four manuals and texts, beginners manual (P1), two hundred page text (P16), manual of experiments (P13), mathematics needed for design (P17), and a study guide (P18), manual of wiring diagrams (P15).

No soldering necessary, all parts operate from one flashlight battery.

TCI complete course including kit, manuals, texts and study guide, post paid.....\$19.95

P1—Beginner's Manual—fifteen experiments in elementary circuit design with a brief introduction to the notations of circuit algebra.....\$1.00

P13—Simple Electric Brain Machines, and How to Make Them. Thirty-three different electric brain machines from simple components. Includes burglar alarms, actuarial machines, syllogism machines, Tit-tat-toe and other game playing circuits.....\$2.00

P15—Wiring Diagrams—for P13. Full page schematic drawings that aid practical construction.....\$1.00

P16—Minds and Machines, a 200-page paperback text covering computing and other machines, control and communication, mechanisms and organisms, working of the nervous system, brain and mental functioning, thought processes and cybernetics.....\$1.00

P17—Symbolic Analysis of Relay and Switching Circuits, reprint of Claude Shannon's original study relating Boolean Algebra to design of electric circuits, still the best discussion of the subject.....\$2.00

P18—Study Guide for Course TCI—lists questions, methods of attack, supplementary readings.....\$5.00

COUPON

Oliver Garfield Co., Dept. SL-36
126 Lexington Avenue, New York 16, N. Y.

Please send me items circled
TC1 P1 P13 P15 P16 P17 P18
I enclose _____ in full payment.
My name and address are attached.

MICROSCOPE SPECIALISTS

- Wide choice of high quality used microscopes at fair prices.
- Large selection of unusual prepared slides from many fields of study.
- Mounting media, covers, slides, stains, chemicals, zoological and botanical specimens available.
- New objectives, oculars, mechanical stages, condensers, nose pieces, etc., made to our specifications in Western Germany.

Send for FREE scientific catalog!

RESEARCH SCIENTIFIC SUPPLIES, INC.
60 Wall St. New York 5, N. Y.