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.

Application of Dimensional Analysis to THE RELATIONSHIP BETWEEN VELOCITY OF Sound and Physical Properties in Organic LIQUIDS—Dudley Thompson and N. N. Bakhshi
—Virginia Polytechnic Institute, Engineering Experiment Station Series No. 100, 26 p., paper, 25 cents.

THE AXIAL VARIATION OF THE MAGNETIC FIELD IN SOLENOIDS OF FINITE THICKNESS—Dillon E. Mapother and James N. Snyder—University of Illinois Engineering Experiment Station, Circular No. 66, 93 p., illus., paper, \$1.00. Report of an investigation conducted by the Experiment Station in cooperation with the U.S. Army Office of Ordnance Research. Presents tables, compiled with the aid of an electronic computer, to aid in designing solenoids.

BIBLIOGRAPHIC SURVEY OF CORROSION 1950-1951: A Compilation of Corrosion Abstracts-National Association of Corrosion Engineers, Publication No. 55-4, 435 p., \$12.50. Includes 4,454 abstracts from some 500 periodicals and books.

CHILD DRAMA—Peter Slade with a Foreword by Dame Sybil Thorndike—Philosophical Library, 379 p., illus., \$10.00. Pointing out that there exists a child drama, an art form

Have You Ever Played Nim With A Computer? GENIAC,

the first electrical brain construction kit, not only plays NIM but you can build over twenty-five other semi-automatic computers which display intelligent behavior, run on only one flashlight battery and require no soldering.

GENIACS are simple enough for intelligent boys and girls to put together yet interesting to anyone because they demonstrate in easily constructed models a fascinating variety of computing and reasoning circuits.

GENIAC is the result of five years of development by prominent computer designers to bring experimental reasoning machinery within the budget of the amateur scientist.

Some of the 33 GENIACS you can build from the completely detailed instruction manual are:

LOGIC MACHINES: Comparing; Reasoning;

ompletely detailed instruction manual are:
LOGIC MACHINES: Comparing; Reasoning;
Syllogism Machine; Intelligence Tester.
GAME PLAYING MACHINES: Tic-Tac-Toe;
Nim (Think you can beat the machine?)
ARITHMETICAL MACHINES: (Binary and
Decimal): Adder; Subtracter; Multiplier;
Divider; Arithmetical Carrying.
CODE MACHINES: Secret Coder; Secret Decoder; Combination Locks.
SIMPLE MACHINES: Burglar Alarm; Automatic Oil Furnace Circuit.
PUZZLE SOLVERS: The Space Ship Airlock;
The Fox, The Hen, The Hired Man and the
Corn; The Uranium Shipment and the Space
Pirates.
ACTUARIAL: Douglas MacDoneld's Will

Pirates.

ACTUARIAL: Douglas MacDonald's Will.
GENIAC parts are specially manufactured to high tolerance; they include a special six deck switch of unique design and over 400 components plus a sixty-four page book "GENIACS, SIMPLE ELECTRICAL BRAIN MACHINES AND HOW TO MAKE THEM."
GENIAC is a remarkable buy for

SCIENCE KITS, SL2, 29 St. Marks Place, New York 3, N. Y.

3, N. Y.
Please send me:
1 GENIAC Electric Brain Construction Kit and

in its own right, displayed even in early infancy.

COLLEGE CHEMISTRY: An Introductory Textbook of General Chemistry-Linus Pauling-Freeman, 2d ed., 685 p., illus., \$6.00. In this new edition an attempt has been made to increase the clarity and to add to the amount of organic chemistry covered.

CORN AND CORN IMPROVEMENT-George F. Sprague, Ed.—Academic, 699 p., illus., \$11.50. Emphasis is on the present state of our knowledge of corn growing.

Fig Varieties: A Monograph—Ira J. Condit —California College of Agriculture, 216 p., illus., paper, limited number free upon request direct to publisher, Agricultural Publications, Room 22, Giannini Hall, Berkeley 4, Calif. The Mission fig of California was introduced over 400 years ago by Spanish explorers and had previously been propagated in Spain for many centuries.

Introduction to Parasitology: With Special Reference to the Parasites of Man-Asa C. Chandler-Wiley, 9th ed., 799 p., illus., \$8.50. An introductory textbook that includes coverage of parasites important in veterinary medicine.

MATERIAL AND LABOR ANALYSIS, HOUSE FRAMING SYSTEMS—Joseph H. Orendorff, director-Govt. Printing Office, Housing and Home Finance Agency, Housing Research Paper No. 33, 125 p., illus., paper, 65 cents. Reporting investigations designed to provide comparative figures on various framing practices.

MEET THE SCIENCES: A Booklist for the General Reader-Science Committee-New Jersey Library Association, 5th ed., 6 p., paper, 10 cents. A selection of readable books on various aspects of science.

New Methods in Analytical Chemistry-Ronald Belcher and Cecil L. Wilson-Reinhold, 287 p., illus., \$5.50. A compilation of newer methods based on classical techniques.

OPERATION MOON-R. Will Burnett-Science Research Associates, 48 p., illus., paper, 50 cents. Intended for high-school readers, describing the problems of space travel.

PHOTOGRAPHY HANDBOOK-Joseph Daffron, Ed.—Arco, 144 p., illus., \$2.00. practical hints and instructions for the camera fan.

PLANTS WITHOUT FLOWERS-Harold Bastin-Philosophical Library, 146 p., illus., \$6.00. Describing an inconspicuous part of the plant kingdom that, nevertheless, has a great importance in industry and agriculture as well as in medicine.

PRACTICAL PHYSICS-Marsh W. White, Kenneth V. Manning and Robert L. Weber-McGraw-Hill, 2d ed., 484 p., illus., \$5.50. An introductory textbook with a whole section devoted to experiments.

Scholarships, Fellowships and Loans: Volume III—S. Norman Feingold—Bellman, 471 p., \$10.00. Contains a section on planning your career and a list of scholarships and student aids, arranged alphabetically.

STRESSES AROUND MINE OPENINGS IN SOME SIMPLE GEOLOGIC STRUCTURES—R. D. Caudle and G. B. Clark—University of Illinois Engineering Experiment Station, Bulletin No. 430, 42 p., illus., paper, 65 cents. Concerned with

the rock stresses existing before the introduction of mine openings and those resulting from the introduction.

TV MANUFACTURERS' RECEIVER TROUBLE Volume 7-Milton S. Snitzer, Ed.--Cures: Rider, 128 p., illus., paper, \$1.80. Cures offered by the makers themselves for troubles they foresee may arise in their products. volume covers sets from General Electric to Raytheon.

TV Repair Questions and Answers on Video Circuits—Sidney Platt—Rider, 128 p., illus., paper, \$2.10. To help the technician in troubleshooting.

This World of Ours-Abram Glaser-Philosophical Library, 492 p., \$5.00. Outlining what the author considers basic in respect to both the physical aspects of the world and world culture and development.

Transplantation of Tissues: Cartilage, Bone, Fascia, Tendon, and Muscle—Lyndon A. Peer—Williams & Wilkins, Volume I, 421 p., illus., \$13.50. The author is a combination of practical surgeon and research scientist, and is the inventor of diced cartilage grafts.

TREATISE ON INVERTEBRATE PALEONTOLOGY: Part E, Archaeocyatha and Porifera-Raymond C. Moore, Ed.—Geological Society of America and University of Kansas Press, 122 p., illus., \$3.00. Nearly 150 specialists are contributors to this treatise, prepared under the guidance of a committee of paleontologist societies in Eng-

VETERANS OF THE ROAD: The History of Veteran Cars and the Veteran Car Club of Great Britain—Elizabeth Nagle, Technical data by Dennis Field, foreword by S. C. H. Davis Arco, 239 p., illus., \$3.75. A book to delight the old-car enthusiast.

Science News Letter, July 23, 1955

INVENTION

Riding-Horse Tricycle Receives Patent

➤ CHIDREN WHO like ponies and horses may take to the invention of Patrick A. Madden of Philadelphia. He developed a sectional horse that clamps to a tricycle frame in such a manner that the child can be seated on a horse while riding the tricycle. It is so constructed that a child can assemble it or take it apart. Patent No. 2,711,325 was granted to Mr. Madden.

Science News Letter, July 23, 1955

