

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 ACUTE RADIATION SYNDROME: A Medical Report on the Y-12 Accident, June 16, 1958—Marshall Brucer, Compiler—*Oak Ridge Inst. of Nuclear Studies (Off. of Tech. Serv.)*, 190 p., illus., paper, \$2.50. Report on the acute phase of hospital care of five patients during the six weeks after the accident.

THE ADVENTURE BOOK OF GROWING PLANTS—Frances M. Miner, Alfred D. Beck, Ed.—*Capitol Pub. (Golden Press)*, 96 p., illus. by Aubrey Combs, Jr., \$3.95. Tells boys and girls about plant growth, and how to take care of plants.

THE ADVENTURE BOOK OF WEATHER—Harry Milgrom, Alfred D. Beck, Ed.—*Capitol Pub. (Golden Press)*, 96 p., illus. by Mildred Waltrip, \$3.95. Introduces boys and girls to the science of meteorology, contains experiments and bibliography, and tells how to prepare for a career.

ADVENTURE IS UNDERGROUND: The Story of the Great Caves of the West and the Men Who Explore Them—William R. Halliday—*Harper*, 206 p., 63 photographs, \$4.50. Compilation of the discovery and exploration of the great caves of the western U. S. Includes glossary.

ALBERT EINSTEIN: Philosopher-Scientist, Vols. I and II—Paul Arthur Schilpp, Ed.—*Harper*, 781 p., illus., paper, each vol. \$1.95. Reprint of collection of discussions of Einstein's ideas by leading scientists and philosophers. Vol. I includes Einstein's autobiography; Vol. II, his reply to critics and bibliography of his writings.

THE ANNUAL SURVEY OF PSYCHOANALYSIS: A comprehensive survey of current psychoanalytic theory and practice, Vol. V—John Frosch and Nathaniel Ross, Eds.—*Int. Univ. Press*, 608 p., \$12. Reference volume, with bibliography.

CANADIAN CANCER CONFERENCE, Vol. 3: Proceedings of the Third Canadian Cancer Research Conference—R. W. Begg, Ed.—*Academic*, 461 p., illus., \$12. The four topics under discussion

were nucleic acids, genetics, viruses and tumors, and the biology of cancer.

THE CYTOPATHOLOGY OF VIRUS INFECTION—Robert Love, Ed.—*N. Y. Acad. of Sciences, Annals*, Vol. 81, Art. 1, 213 p., illus., paper, \$4.50. Monograph delineates many of the newer techniques such as electron microscopy, cytochemistry, and fluorescent labeling.

DICTIONARY OF ECONOMIC PLANTS—J. C. Th. Uphof—*Engelmann (Hafner Pub. Co., N. Y.)*, 400 p., \$9.75. Lists scientific and common names of 6000 species, with their geographical distribution, products and economic uses.

A DICTIONARY OF SCIENCE: Definitions and Explanations of Terms Used in Chemistry, Physics, and Elementary Mathematics—E. B. Uvarov, rev. with D. R. Chapman—*Penguin*, 240 p., paper, 85¢. Reprint of revised 1951 edition.

ELECTROLYTE SOLUTIONS: The Measurement and Interpretation of Conductance, Chemical Potential and Diffusion in Solutions of Simple Electrolytes—R. A. Robinson and R. H. Stokes—*Academic*, 2nd ed., 559 p., illus., \$11.50. Revision includes new experimental and theoretical developments, and recent work on conductance of non-aqueous solvents.

EXOTIC ZOOLOGY—Willy Ley—*Viking*, 468 p., illus. by Olga Ley, \$4.95. From the unicorn and other fairy-tale fauna to the pigmy hippo and coelacanth. Rearranged, expanded and up-to-date version of three earlier books by the author.

FIRST COLLOQUIUM ON THE LAW OF OUTER SPACE: The Hague 1958 Proceedings—Andrew G. Haley and Welf Heinrich Prince of Hanover, Eds.—*Springer-Verlag, Vienna*, 126 p., paper, \$4.50. Papers discussing legal aspects of radio communication frequencies, air space, moon, fourth dimension and other aspects of the new frontier.

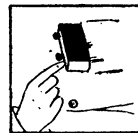
GEMSTONES OF NORTH AMERICA—John Sinkankas—*Van Nostrand*, 704 p., color plates & drawings by author, \$15. Thorough treatment of each gemstone species, tells where and under what circumstances it is found. Includes bibliography, glossary, geographical and locality index.

GENERAL METEOROLOGY—Horace Robert Byers—*McGraw*, 3rd ed., 540 p., illus., \$9.50. Introductory text for serious students of meteorology, treating the atmosphere as a whole, from the upper levels downward, explaining how processes work and how they can be related to mathematical statements.

HUMAN NATURE AND THE HUMAN CONDITION—Joseph Wood Krutch—*Random House*, 211 p., \$3.95. Author focuses on such contemporary problems as overpopulation, the cult of the "high standard of living", and the question of more leisure for whom and for what.

Portable Radio Transmitter

(Surplus Weather Balloon Unit)



NEW GOVERNMENT SURPLUS AT FRACTION OF COST. Lightweight wireless transmitter. Broadcast from home, field, auto or boat. Use for remote control models, experimental electronics, convert to short-wave receiver, etc. Weighs about 5 oz. Brand new. Portable. Completely wired. 2 tube. Adjustable frequency. With aerial. Range up to 50 miles. Uses standard batteries (not included). With carrying case, 7x5x3". Limited quantity. Parts alone worth many times price.

Money back guarantee. **\$1.98**
2 for \$3.75. EACH POSTPAID.....
JOHNSON SMITH COMPANY, Dept. 812,
Detroit 7, Mich.

INDUSTRIAL GUMS: Polysaccharides and Their Derivatives—Roy L. Whistler and James N. BeMiller, Eds.—*Academic*, 766 p., illus., \$25; until Sept. 30, 1959, \$21. Practical and integrated reference work of carbohydrate gums, their processing methods and applications.

AN INTRODUCTION TO JUNG'S PSYCHOLOGY—Frieda Fordham—*Penguin*, 128 p., paper, 95¢. Exposition for the general reader of the theories and techniques of the psychologist who originated such terms as "complex", "introvert", and "extravert".

J. M. CHARCOT, 1825-1893: His Life, His Work—Georges Guillain, ed. & transl. from French by Pearce Bailey—*Hoebner-Harper*, 202 p., illus., \$7. Biography of the "father of modern neurology" and the medical institution where he taught, the Salpêtrière in Paris.

KITES—Larry Kettelkamp—*Morrow*, 48 p., illus. by author, \$2.75. Shows children how to build kites from simple to intricate.

MASERS—J. R. Singer—*Wiley*, 147 p., illus., \$6.50. Introductory study of microwave amplifiers or oscillators operating on the principle of induced emission.

ON MATHEMATICS AND MATHEMATICIANS (Formerly titled: Memorabilia Mathematica or the Philomath's Quotation-Book)—Robert Edouard Moritz—*Dover*, new ed., 410 p., paper, \$1.95. Reprint of 1913 reference book of of famous passages by mathematicians and writers.

OUR SPACE AGE JETS: A Completely Revised Edition of Our Fighting Jets—C. B. Colby—*Coward-McCann*, 48 p., illus., \$2. Photographs, brief description and vital statistics of each airplane, with three-view drawings for scale models.

PRINCIPLES OF PHYSICAL CHEMISTRY—William H. Hamill and Russell R. Williams, Jr.—*Prentice-Hall*, 607 p., illus., \$8.75. Two-semester introductory course, covering chemical thermodynamics, chemical equilibrium, electrochemistry, photochemistry and radiation chemistry.

RADIATION HYGIENE HANDBOOK—Hanson Blatz, Ed.—*McGraw*, 953 p., illus., \$27.50. A practical reference covering the industrial, medical and research uses of radiation and atomic energy with special applications to the field of health physics, industrial hygiene and sanitary engineering.

ROAD OF PROPAGANDA: The Semantics of Biased Communication—Karin Dövring, introd. by Harold D. Lasswell—*Philosophical Lib.*, 158 p., \$4.75. Probes methods of content analysis as an instrument for measuring "ideological" factors in social processes of past and contemporary history.

SOON AFTER SEPTEMBER: The Story of Living Things in Winter—Glenn O. Blough—*Whittlesey House*, 48 p., illus. by Jeanne Bendick, \$2.50. Tells young children what they can observe about trees, bushes and animals getting ready for winter.

THE SOVIET AIR AND ROCKET FORCES—Asher Lee, Ed.—*Praeger*, 311 p., illus., \$7.50. Experts examine Russian progress in air strategy, jet fighters and bombers, missiles, organization and training of personnel, and aircraft production.

(Continued on p. 158)

Best Book Contest for 1959

\$1600 Cash Awards plus 40% return. All types of manuscripts invited. For Contest rules and details of famous publishing plan, write for free Brochure SN. Pageant Press, 101 Fifth Ave., N. Y. 3

THE PURSUIT OF THE ATOM

By Werner Braumbek

Now you are invited on a "guided tour" of scientific exploration and discovery within the realm of the atom; guided, no less, by the great scientists whose brilliant work made possible the breakthrough to the atomic age. Each basic contribution to the complex pattern of research is lucidly explained, and is related to the work of others before and after.

All are here, the great ones: Rutherford, Soddy, Becquerel, the Curies, Geiger, Bohr, Hahn, Meitner, Blackett, Cockroft, Kapitzka, Walton, Einstein, Planck, Born, Von Hevesy, J. J. Thomson, Hertz, Millikan, Mach, Wilson, Heisenberg, Schroedinger, Dirac, Condon, Gamov, Lawrence, van de Graaff, Urey, the Joliot-Curies, Chadwick, Bothe, Anderson, Fermi, Strassmann, McMillan, Compton, Oppenheimer, Bethe, Teller, etc., etc., etc.

The unraveling of the problem bit by bit, clue by clue; the enormity of the stakes involved; the interplay of the world's most brilliant scientific minds: all serve to make this a truly cosmic "detective mystery" story. Suspense, excitement, danger and, yes, death, abound.

Full of scholarship, indeed; but a book whose sheer drama draws one on absorbed from one tense page to another, to the end.

Written in nontechnical language for the general reader, this is science at its most beguiling, yielding not only a wealth of information, but also the utmost in reading pleasure. ORDER NOW! \$3.95 Postfree • 10-Day Money-Back Guarantee

EMERSON BOOKS, INC., Dept. 773-L
251 W. 19th Street, New York 11

40 CUP ELECTRIC PERCULATOR



Mfrs.
List
\$39.95

\$18.95

Shipping
Charge \$1.00

We bought up all we could get of this famous brand Electric Perculator, at bargain price, and are passing our savings on to you. At this low, low price, you can afford the luxury of this big 10 to 40 cup party perk.

John Surrey Comes to the Aid of Your Party

For little more than the cost of a smaller coffee maker, less than half the listed price, you can end those constant treks to the kitchen when you're entertaining a crowd.

Of gleaming aluminum, in a sleek modern design, this handsome coffee maker is in perfect taste on any table, fits in gracefully with your fine china and silver. And... it makes a perfect 40 cups of coffee, time after time.

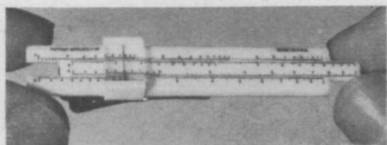
- ★ Fully automatic with pilot light
- ★ UL & CSA Approved
- ★ Lifetime Mirror Finish
- ★ Plug-in extension cord

For Offices—Hospitals—Commissaries—Parties—Clubs—Churches, Etc.

John Surrey, Ltd., 11 West 32nd St., Dept. SN-33, New York 1, N. Y.

DO YOU KNOW

d hi ho = ho d hi + hi d ho



And, do you know Baby Slide Rule tie clasp can do everything his father (your 10" slip stick, 4 times his size) can do with the C, D, square and cube scales? You won't be "complete" until you have your cute, dignified Baby Slide Rule, mounted on a gold plated tie clasp, gift boxed, post paid and guaranteed for \$2.75 plus 10% Fed. Tax. Special quantity prices and imprint for engineering societies, conferences and business firms. Send check or MO to

Baby SLIDE RULE CO.

P.O. Box 9, Dept. F, East Lansing, Mich. Ph. ED 2-4969

Write for catalog of our original "mechanized" jewelry.

MICROSCOPE SLIDES

Fascinating Subjects—Scientifically Made

At these low prices, you can now afford a complete Aristo-Craft Slides Library. Each set consists of 6 different, exciting slides, packed in book form. Each slide is labeled. SETS: B1—Animals • B2—Plants • B3—Fibres • B4—Hairs • B5—Crystals • B6—Foods —Save! Library of 6 Different Sets (36 slides)—Only \$3.95 pp. Send self-addressed, stamped envelope for FREE SLIDES LIST. Hundreds of Subjects.



69c SET
ppd

POLK'S HOBBIES
314 5th Ave. (Dept. SNL-99) N.Y. 1, N.Y.

LINGUAPHONE

MAKES IT EASY TO LISTEN and LEARN to



SPANISH (American or European) • FRENCH
GERMAN • ITALIAN • RUSSIAN
MODERN GREEK • JAPANESE

Any of 34 languages available at home

Only LINGUAPHONE, The World's Standard Conversational Method, brings 8 to 12 of the world's best native language teachers into your home on fine recordings.

It's like living in another land. You listen. You hear native men and women converse about up-to-date, every-day matters. You Understand. You SPEAK quickly, easily, naturally. You acquire a true accent no TEXTBOOK CAN TEACH.

Exciting Business, Travel Opportunities Here and Abroad. Linguaphone is used around the world by schools, governments, business firms. Over a million home-study students have learned another language this ideal, conversational way.

Stop Wishing—Start Talking! Send for FREE Book and Details of FREE TRIAL. Linguaphone Institute, T-31-099 Radio City, New York 20, N. Y.

The Battery That's Used in Guided Missiles Now Released as Government Surplus

For Photography, Aircraft, Models, Searchlights, Radios, etc. \$1.95 ea. Postpaid



Sintered-plate Nickel-Cadmium alkaline storage batteries designed for "NIKE" Missile and now surplus due to design change. A lifetime battery with no known limit of service (over 5000 recharges on test without loss of capacity). Other features: Virtually indestructible, compact & lightweight, withstands heavy shock and vibration. Flat voltage curve during discharge retains charge year or more, high discharge rate up to 50 amps. for this cell, no corrosive fumes to harm clothing or equipment, spill-proof construction, discharge in any position, indefinite storage without deterioration, operates in temperatures

—60°F to +200°F. Each cell is approx. 10 ampere hour capacity. Nominal voltage per cell is 1.2 volts. (A 6 V battery requires 5 cells.) Cell size 6" H. x 2" W. x 1/2" T. Wt. 6 oz. ea. Uses Potassium-Hydroxide (30%) electrolyte. Negligible loss during lifetime service. Add only distilled water once a year. A fraction of Government cost.

Used Test Cells.....\$1.95 ea. Postpaid
Brand New Cells.....2.95 ea. "

All cells guaranteed to your satisfaction or money refunded (less postage).

ESSE RADIO COMPANY, Dept. 6J
42 W. South St. Indianapolis 25, Indiana

MICRO-ADS

Equipment, supplies and services of special interest to scientists, science teachers and students, science-minded laymen and hobbyists. 25¢ per word, payable in advance. Closing date 3 weeks prior to publication (Saturday).

SNL, 1719 N St., N.W., Washington 6, D. C.

BIOLOGICAL STAINS

BIOLOGICAL STAINS FREE PRICE LIST. ESBE Laboratory Supplies, 450 Bloor St., W., Toronto, Ontario, Canada.

ELECTRIC THERMOMETER

NEW ELECTRIC THERMOMETER—INDICATES temperature remotely to 3000 ft. and up to five locations. Measures temperature of air, liquids, outside humidity. For students, science teachers, amateur weather men, orchard men, storage men. Send for brochure Electra-Temp. Co., Dept. S, Box 6111, San Diego 6, Calif.

MINIATURE STEAM TURBINE

MINIATURE STEAM TURBINE. ACCURATELY machined. Efficient (2,500 rpm). Runs on heat from bunsen burner or solar reflector. \$2.00 post paid. Negravco, Box 414, Redwood City, Calif.

PRECISION SLIDE RULES

AGENTS WANTED TO SELL QUALITY Precision slide rules to students for manufacturer. Big profits. Write: Hoffman Products, Box 662L, Passaic, New Jersey.

SEE THRU MAPS

"SEE THRU" STAR MAPS THAT GLOW IN dark for easy star identification. 12 Map Sets—\$4.95. Broder Maps, 1368 McAllister St., San Francisco 15, California.

Books of the Week

(Continued from p. 156)

THE SPANISH PLATEAU: The Challenge of a Dry Land—Peter Buckley—*Coward-McCann*, 96 p., photographs by author, maps, \$2.50. Excellent short geography for young people and old.

STATUS REPORT ON FUEL CELLS—B. R. Stern—*Army Research Office Report No. 1 (Off. of Tech. Serv.)* 116 p., illus., paper, \$1.25. First report reviewing available information, with introductory chapter on the fundamentals of the fuel cell.

THE STRUCTURE AND EVOLUTION OF THE UNIVERSE: An Introduction to Cosmology—G. J. Whitrow—*Harper*, 212 p., illus., paper, \$1.45. Completely rewritten to include radio astronomy and other recent developments, it provides an up-to-date account of the latest observational data and theories in a form suitable for the layman.

STUDIES IN MATHEMATICAL LEARNING THEORY—Robert R. Bush and William K. Estes, Eds.—*Stanford Univ. Press*, 432 p., \$11.50. Collection of research papers.

THE THOMAS ALVA EDISON FOUNDATION: Annual Report 1958—*Thomas Alva Edison Foundation*, 20 p., illus., paper, single copies free upon request direct to publisher, 8 W. 40th St., New York 18, N. Y. Foundation was organized to keep alive for the benefit of future generations the inspiration of the genius of Edison.

TRANSISTORS in Radio, Television and Electronics—Milton S. Kiver—*McGraw*, 2nd ed., 424 p., illus., \$7.95. Stresses the practical aspects of transistors and their operation.

THE TECHNOLOGY OF FOOD PRESERVATION—Norman W. Desrosier—*Avi*, 418 p., illus., \$8.50. Up-to-date discussion of food preservation by refrigeration, drying and canning methods. Chapters on fermentation, chemical additives and ionizing radiations. Bibliographies.

UTILIZATION OF NITROGEN AND ITS COMPOUNDS BY PLANTS: Symposia of the Society for Experimental Biology No. XIII—D. J. D. Nichol and others—*Academic* for the Company of Biologists, 385 p., illus., \$9.50. Papers read at the Symposium held at the University of Reading in September 1958.

WATER ALL AROUND—Tillie S. Pine and Joseph Levine—*Whitelsey House*, 48 p., illus. by Bernice Myers, \$2.50. A first reader about experiments with water.

WHAT DOES IT DO AND HOW DOES IT WORK: Power Shovel, Dump Truck, and Other Heavy Machines—Russell Hoban—*Harper*, 63 p., illus. by author, \$3.50. Picture book for boys.

WONDERS OF THE ARCTIC—Jacquelyn Berrill—*Dodd*, 94 p., illus. by author, \$2.95. Tells young people about the living creatures of the Arctic region, exquisitely illustrated.

THE WOODS HOLE OCEANOGRAPHIC INSTITUTION: Report for the Year 1958—*Woods Hole Oceanographic Inst.*, 61 p., paper, single copies free upon request direct to publisher, Woods Hole, Mass. Reports on IGY participation, marine meteorology, geochemistry, instrumentation and research fleet.

Science News Letter, September 5, 1959

Free to WRITERS seeking a book publisher

Two fact-filled, illustrated brochures tell how to publish your book, get 40% royalties, national advertising, publicity and promotion. Free editorial appraisal. Write Dept. SCN

Exposition Press, 386 Park Ave. S., N. Y. 16