

# Books of the Week

For the editorial information of our readers, books received for review 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.

AMA ENCYCLOPEDIA OF SUPERVISORY TRAINING: Basic Materials from Successful Company Programs—Elizabeth Marting, introd. by Lydia Strong—*Am. Management Assn.*, 451 p., illus., \$22.50. Well organized program for training supervisory personnel.

ADVANCES IN CARBOHYDRATE CHEMISTRY, Vol. 15—Melville L. Wolfson, Ed.—*Academic*, 445 p., illus., \$14. For the research worker.

ADVANCES IN ELECTRONICS AND ELECTRON PHYSICS, Vol. XIII—L. Martin, Ed.—*Academic*, 454 p., illus., \$13.50. Covers inelastic collisions between atomic systems, field ionization, velocity distribution in electron streams, and research in television camera tubes.

ADVANCES IN VETERINARY SCIENCE, Vol. 6—C. A. Brandy and E. L. Jungher—*Academic*, 382 p., illus., \$12. On screw-worm research, anaplasmosis, comparative pathology of arthritis, and canine distemper.

ADVANCES IN VIRUS RESEARCH, Vol. 7—Kenneth M. Smith and Max A. Lauffer, Eds.—*Academic*, 397 p., illus., \$10. Among others contains papers on polyoma virus, plant viruses, and non-specific resistance to viruses.

AFTER-DINNER SCIENCE—Kenneth M. Swezey—*McGraw*, rev. ed., 182 p., photographs by author, \$4.95. Clearly illustrated experiments demonstrating basic laws of science, for young people.

ALGEBRAIC EQUATIONS: An Introduction to the Theories of Lagrange and Galois—Edgar Dehn—*Dover*, 208 p., paper, \$1.45. Unabridged reprint of 1930 edition.

ANALYTICAL CHEMISTRY OF THE RARE EARTHS—R. C. Vickery—*Pergamon*, 139 p., illus., \$6.50. Considers gravimetric, volumetric, spectrophotometric, spectrographic, X-ray and polarographic techniques of analysis.

## YOUR SKIN AND ITS CARE

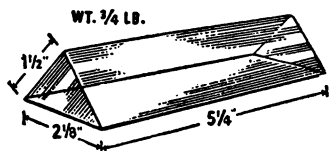
By H. T. Behrman, M. D., and O. L. Levin, M. D.

Two dermatologists give you the up-to-date scientific facts. They tell you in detail exactly what to do to beautify and improve your skin, how to avoid or correct skin disorders; and how to deal with many skin problems as: Daily care of the face—allergies—cosmetics—pimples—blackheads—acne—whiteheads—cysts—boils—oily skin—dry skin—chapping—poison ivy—cold sores—hives—superfluous hair—ringworm—moles—birthmarks—scars—warts—tumors—skin cancer—excessive sweating—etc., etc.

"The type of book to which the physician can refer his patients." — *Journal of the American Medical Association*.

Price \$3.50 Postpaid • 10-Day Money-Back Guarantee  
EMERSON BOOKS, Inc., Dept. 237-M  
251 W. 19th Street, New York 11

### PRISMS \$1.50



Made for U. S. govt. for tank periscopes. Fine optically ground, big precision prisms with silvered base. Terrific for all types of spectrographic work, in homemade telescopes & other optical systems for bending rays. Makes unusual paper weight (paint your name on it) or conversation piece for mantel. You'll find many other uses. NEW, PERFECT! Cost U. S. govt. \$25 ea. NOW—\$1.50 ea. p.p. or 4 for \$5.00. Same as above—1" long (no silver backing). \$1. ea. 5 for \$4. Postage paid on prepaid orders. Calif. res. add sales tax.

Volume Sales Co., War Assets Div., Dept. C151  
3828 Sunset Blvd. Los Angeles 26, Calif.

ASSAULT ON THE UNKNOWN: The International Geophysical Year—Walter Sullivan—*McGraw*, 460 p., photographs, \$7.95. Summarizes the achievements made during the IGY in which 62 nations carried out scientific programs in the greatest international attempt at cooperation so far.

THE ATOM AND ITS NUCLEUS—George Gamow—*Prentice-Hall*, 153 p., illus. by author, \$3.75; paper, \$1.95. Introduction to the world of nuclear physics, for the layman.

ATOMIC PHYSICS TODAY—Otto R. Frisch—*Basic Bks.*, 254 p., illus., \$4.50. Gives the general reader a scientist's view of what physicists are exploring today.

ATOMS TO GALAXIES: An Introduction to Modern Astronomy—James Stokley—*Ronald*, 361 p., illus., \$6. Highlights of our knowledge of the universe as seen through the instruments of modern science. For the general reader.

CAUSALITY AND CHANGE IN MODERN PHYSICS—David Bohm, foreword by Louis De Broglie—*Harper*, 170 p., paper, \$1.35. Reprint of 1957 edition.

CERAMICS—P. William Lee—*Reinhold*, 210 p., illus., \$5.95. Survey of the applications of ceramic materials in industry, including their history, raw materials and basic chemistry.

CHARACTERIZATION OF ORGANIC COMPOUNDS—F. Wild—*Cambridge*, 306 p., illus., paper, \$2.95. Reprint of 1958 second edition.

CHEMISTRY, Vol. II—Chemical Bond Approach Committee, Laurence E. Strong, Ed.—*Chemical Bond Approach Project*, 2nd ed., 284 p., illus., paper, \$2.50. Comprises the last half of the revised course, after trial by teachers and students in nine high schools.

CHILDREN OF THE CAPE—Michael Portland—*Taplinger*, 30 p., color photographs, \$2.50. Picturesque description of life in South Africa, for boys and girls.

CHILDREN OF THE FISHING BOATS—Michael Portland—*Taplinger*, 30 p., color photographs, \$2.50. Life in an Italian fishing village, for boys and girls.

THE COUCH AND THE CIRCLE: A Story of Group Psychotherapy—Hyman Spotnitz, M.D.—*Knopf*, 274 p., \$4.50. Psychiatrist tells how troubled people help and heal each other and themselves through group psychotherapy.

THE CREATION OF THE UNIVERSE—George Gamow—*Viking*, rev. ed., 147 p., illus., \$4.50. Revision includes new theories and developments since first published in 1952.

CURRENT TRENDS IN PSYCHOLOGICAL THEORY: A Bicentennial Program—Wayne Dennis and others—*Univ. of Pittsburgh Press*, 229 p., illus., \$6. Papers reporting on four areas of psychology: physiological, learning, thinking and problem solving, and personality.

DEVELOPMENTAL GENETICS AND LETHAL FACTORS—Ernst Hadorn, transl. from German by

## Trap Your Own Rainbow PRISM \$8.00 p.p.

Brilliant water-white crystal—45°-90°-45°. Faces flat to highest tolerances. Wt. 10 oz. Size 3 1/2" x 2 1/4" x 1 1/2". of best optical glass. Cost gov. no less than \$30.00. Until you have witnessed the glory of a spectrum (rainbow) cast by this prism with sunlight you have not been truly happy. 2 for \$12.00 p.p.



HARRY ROSS

Scientific & Lab Apparatus  
61-L Reade St., N.Y. 7, N.Y.

Ursula Mittwoch—*Wiley*, 355 p., illus., \$8.50. Dealing with the pathology of development based on the study of lethal factors, volume is of value to specialists both in embryology and in genetics.

EDUCATING THE MORE ABLE CHILDREN IN GRADES FOUR, FIVE AND SIX—Gertrude M. Lewis—*Office of Educ. (GPO)*, 84 p., illus., paper, 35¢. Discusses the characteristics of teaching-learning situations considered "good" for educating the more able in grade school.

ELECTRONICS—Paul M. Chirlian and Armen H. Zemnian—*McGraw*, 335 p., illus., \$8.75. Introductory textbook, emphasizes physical electronics rather than circuitry.

ELEMENTARY MATRICES AND SOME APPLICATIONS TO DYNAMICS AND DIFFERENTIAL EQUATIONS—R. A. Frazer, W. J. Duncan and A. R. Collar—*Cambridge*, 416 p., illus., paper, \$2.95. For the student of applied mathematics, with no previous knowledge of matrices.

ELEMENTARY MODERN PHYSICS—Richard T. Weidner and Robert L. Sells—*Allyn*, 512 p., illus., \$8.50. To follow a general physics course for engineering and science students.

EXPERIMENTS WITH MATERIALS AND PRODUCTS OF INDUSTRY—Arthur W. Earl—*McKnight*, 368 p., illus., \$6. Experiments in such fields as auto mechanics, ceramics, and photography, for the industrial arts student.

A FIELD GUIDE TO WESTERN BIRDS—Roger Tory Peterson—*Houghton*, 2nd rev. ed., 366 p., illus. by author, \$4.95. Field marks of all species found in North America west of the 100th meridian, including Hawaiian birds.

FIELD THEORY FOR ENGINEERS—Patty Moon and Domina Eberle Spencer—*Van Nostrand*, 530 p., illus., \$12.75. Text and reference volume, applying boundary-value techniques to engineering.

GALILEO AND THE SCIENTIFIC REVOLUTION—Laura Fermi and Gilberto Bernardini—*Basic Bks.*, 150 p., illus., \$3.50. Unfolds for young people the life story and discoveries of a pioneering scientist.

GO AND GO-MOKU: The Oriental Board Games—Edward Lasker—*Dover*, 2d. rev. ed., 215 p., illus., paper, \$1.45. History, tactics and strategy of old Chinese game, believed to be three times as old as chess.

THE HARVEY LECTURES: Delivered under the Auspices of the Harvey Society of New York, 1959-1960—T. T. Puck and others—*Academic*, 257 p., illus., \$8. On biological foundations of wound repair, inside nucleic acids, and on biological role of nitrogen gas.

A HISTORY OF SCIENCE, TECHNOLOGY & PHILOSOPHY IN THE 18TH CENTURY, Vols. I and II—A. Wolf, rev. by D. McKie—*Harper*, 416 p., 398 p., illus., paper, \$2.50 each. Reprint of revised edition.

I SAILED WITH RASMUSSEN—Peter Freuchen—*Viking*, 224 p., illus., paper, \$1.35. Reprint of story of two Arctic explorers.

IMPRESSIONS OF EUROPEAN PSYCHIATRY—Walter E. Barton and others—*Am. Psychiatric Assn.*, 129 p., \$4. Report of a team of three American psychiatrists and one psychiatric nurse, on European developments in the care the mentally ill.

THE INDIAN AND THE BUFFALO—Robert Hofsinde (Gray Wolf)—*Morrow*, 96 p., illus. by author, \$2.75. Tells children about the important part this animal played in the life and customs of the American Indian.

INSIDE THE ATOM—Isaac Asimov—*Abelard-Schuman*, 2nd rev. ed., 197 p., illus. by John Bradford, \$3. Explains for the non-scientist what goes on inside the atom, how man learned about it and what he has done with this learning.

JOURNAL OF THEORETICAL BIOLOGY, Vol. I, No. 1—J. F. Danielli, Ed.—*Academic*, 106 p., paper, \$17 per year, private subscriptions \$12. To serve as central medium for theoretical discussion in all fields of biology.

A LABORATORY MANUAL FOR A SHORT COURSE IN ORGANIC CHEMISTRY—Harold Hart and Robert D. Schuetz—*Houghton*, 3rd ed., 182 p., illus., paper, \$3.25. Designed for one-semester survey course.

LOUIS AGASSIZ: Adventurous Scientist—Louise Hall Tharp—*Little*, 200 p., illus. by Raffaello Busoni, \$3.75. Juvenile biography.

MAN-MADE SUN—J. D. Jukes, foreword by Sir George Thomson—*Viking*, 136 p., paper, \$1.25. On current research on nuclear power for peaceful uses.

MATHEMATICAL HANDBOOK FOR SCIENTISTS AND ENGINEERS: Definitions, Theorems and Formulas for Reference and Review—Granino A. and Theresa M. Korn—*McGraw*, 960 p., illus., \$20. Professional and up-to-date volume, includes full range of mathematical facts and data through the use of concise tables and boxed groups of related formulas.

THE MATHEMATICAL THEORY OF NON-UNIFORM GASES: An Account of the Kinetic Theory of Viscosity, Thermal Conduction and Diffusion in Gases—Sydney Chapman and T. G. Cowling—*Cambridge*, 431 p., illus., paper, \$2.95. Reprint.

A MODERN INTRODUCTION TO LOGIC—L. Susan Stebbing—*Harper*, 525 p., illus., paper, \$2.75. Reprint of seventh edition.

THE NATURE OF THERMODYNAMICS—P. W. Bridgman—*Harper*, 239 p., paper, \$1.40. Reprint of 1941 edition.

NEWTONIAN SCIENCE—Arthur E. Bell—*Arnold, Edward (St. Martins)*, 176 p., \$5.75. Acquaints science student and non-scientist with humanistic background of 17th century thinking.

ORGANIZATION OF FEDERAL EXECUTIVE DEPARTMENTS AND AGENCIES: Report—U. S. Senate Committee on Government Operations—*GPO*, 56 p., wall chart, paper, 20¢. Chart outlines executive operating units down through the division level.

THE OXFORD BOOK OF WILD FLOWERS—S. Ary and M. Gregory—*Oxford Univ. Press*, 232 p., illus. by B. E. Nicholson, \$7.50. Arranged by color, this book permits easy and detailed identification of wild flowers in Britain.

PHYSICAL CHEMISTRY—Farrington Daniels and Robert A. Alberty—*Wiley*, 2nd ed., 744 p., illus., \$8.75. Revision emphasizes mathematical approach, contains new material on kinetic theory, spectroscopy, and statistical mathematics.

PLAY FOR CONVALESCENT CHILDREN IN HOSPITALS AND AT HOME—Anne Marie Smith—*Barnes & Noble*, rev. ed., 183 p., \$4.50. On methods and activities designed to dispel fear and provide relaxed atmosphere among children under medical treatment.

PSYCHOLOGY AND EDUCATION: Selected Essays—Hirsch Lazaar Silverman—*Philosophical Lib.*, 169 p., \$3.75. On contemporary aspects of applied psychology in the field of pedagogy.

REPTILES AND THEIR WAY OF LIFE—George S. Fichter—*Golden Press*, 54 p., illus. by Sy Barlowe and others, 69¢. For younger readers.

RIVER BASIN SURVEYS PAPERS—Frank H. H. Roberts, Jr., Ed.—*Smithsonian Inst. (GPO)*, 337 p., illus., \$2.25. Six reports dealing with archaeology of historic sites in the Dakotas.

ROCKET DEVELOPMENT: Liquid-Fuel Rocket Research, 1929-1941—Robert H. Goddard; Esther C. Goddard and G. Edward Pendray Eds.—*Prentice-Hall*, 222 p., photographs, \$3.95; paper, \$2.45. Reprint of the U. S. space pioneer's

notebooks, first published three years after his death in 1948.

SCIENCE AND MATHEMATICS MATERIALS FOR ELEMENTARY SCHOOLS: Kindergarten Through Grade 8—*Science Materials Center*, 48 p., illus., paper, free upon request to publisher, 59 Fourth Ave., New York 3, N.Y. Catalog describing graded material for school science labs and home study.

SCIENCE IN ANTARCTICA. Part I: The Life Sciences in Antarctica. Part II: The Physical Sciences in Antarctica—Committee on Polar Research, Laurence M. Gould, Chmn.—*NAS-NRC*, 162 p., 131 p., maps, paper, \$1.50 each. Appraisal and consideration of desirable objectives for future research programs along the lines of the IGY.

SCIENTIFIC THINKING AND SCIENTIFIC WRITING—Martin S. Peterson—*Reinhold*, 215 p., illus., \$6.95. Stresses the importance of inductive reasoning in effectively organizing expository writing in the scientific field.

A SECOND COURSE IN STATISTICS—Robert Loveday—*Cambridge*, 155 p., illus., \$1.85. Textbook.

SEMICONDUCTORS AND TRANSISTORS—Alexander Schure, Ed.—*Rider*, 138 p., illus., paper, \$2.90. Discusses and evaluates the theory and characteristics of semiconductors and transistors.

SERVOMECHANISMS: An Introduction to the Practice and Theory of Closed-Loop Position-Control Systems—P. L. Taylor—*Longmans*, 418 p., illus., \$8.50. Textbook, includes account of methods of data transmission and computation.

SOCIAL BEHAVIOR: Its Elementary Forms—George Caspar Homans—*Harcourt*, 404 p., illus., \$5.50. Attempts to explain findings about the social behavior of man.

SOURCE BOOK OF THE NEW PLASTICS, Vol. 2—Herbert R. Simonds, Ed.—*Reinhold*, 310 p., illus., \$8.95. Covers new materials and processes in the plastics industry through most of 1960.

SOVIET SPACE TECHNOLOGY—Alfred J. Zachringer, foreword by Wernher von Braun—*Harper*, 179 p., illus., \$3.95. Factual assessment of Soviet space and rocket developments from Ziolkovsky to the Luniks.

STANDARD METHODS OF CLINICAL CHEMISTRY, Vol. 3—David Seligson, Ed.—*Academic*, 230 p., illus., \$6.50. Covers wide variety of methods, from alcohol determinations in biological materials to transaminase.

STATICS: Including Hydrostatics and the Elements of the Theory of Elasticity—Horace Lamb—*Cambridge*, 3rd ed., 357 p., paper, \$3.75. Reprint, first published in 1912.

THE STORY OF MAPS & MAP-MAKING: How man has charted his changing world from ancient times to the space age—James A. Hathway—*Golden Press*, 54 p., illus. by Harry McNaught, 69¢. For the younger reader.

THE STORY OF OUR TIME: Encyclopedia Year Book, 1961—Marian Lockwood, Ed.—*Grolier Soc.*, 432 p., illus., \$7.50. Includes summaries of advances in science and technology, as well as survey of national and international events.

STRANGE PATTERNS IN THE SOUTH SEAS—James Tressoll—*Doubleday*, 187 p., illus. by author, \$3.50. Informative and entertaining facts about life among the Pacific islands told by a botanist.

STUDIES IN PALEOBOTANY—Henry N. Andrews, Jr.—*Wiley*, 486 p., illus., \$11.75. Dealing principally with the fossil record, this introductory textbook presents the evolution of vascular plants.

THE SURVEY OF DENTISTRY: The Final Report—Commission on the Survey of Dentistry in

the United States, Byron S. Hollinshead, Director—*Am. Council on Ed.*, 603 p., \$10.

TABLES OF THE HYPERGEOMETRIC PROBABILITY DISTRIBUTION—Gerald J. Lieberman and Donald B. Owen—*Stanford Univ. Press*, 726 p., \$15. Extensive tabulation, intended to aid the research worker.

TAKING PICTURES AFTER DARK—Y. Ernest Satow—*Amphoto*, 119 p., photographs, \$2.50. Technical hints for photography with artificial light.

TEXTBOOKS IN PRINT, 1961, formerly The American Educational Catalog—*Bowker*, 90th rev. ed., 324 p., paper, \$3. Author and title index to elementary, junior and senior high school books classified by subject.

THEORIES OF ENGINEERING EXPERIMENTATION—Hilbert Schenck, Jr.—*McGraw*, 239 p., \$7. Covers the theoretical, analytic and statistical aspects of basic engineering experimentation.

UNDERWATER ZOOS—Millicent E. Selsam—*Morrow*, 96 p., illus. by Kathleen Elgin, \$2.75. Instructions for boys and girls on how to set up and care for aquaria.

WATCH THE TIDES—David Greenhood—*Holiday House*, 40 p., illus. by Jane Castle, \$2.75. For the youngest readers.

WATER FOR PEOPLE—Sarah R. Riedman—*Abelard-Schuman*, rev. ed., 156 p., illus. by Bunji Tagawa, \$3. For young people, detailed index makes it good reference source.

WHAT PRIORITY FOR EDUCATION? The American People Must Soon Decide—David D. Henry—*Univ. of Ill. Press*, 92 p., \$2.50. The president of the University of Illinois defines and discusses the critical issues in the current debate on education.

THE WORLD AROUND US—J. A. Ratcliffe and others; Sir Graham Sutton, Ed.—*Macmillan*, 122 p., illus., \$3.95. Six essays based upon the Christmas Lectures at the Royal Institution marking the close of the IGY.

X-15 DIARY: The Story of America's First Space Ship—Richard Tregaskis—*Dutton*, 317 p., photographs, \$4.95. The story behind the speed records and test flights of the X-15 rocket craft.

• Science News Letter, 79:236 April 15, 1961

**Study live insects and whole specimens!**



**with TESTA WIDE FIELD MICROSCOPE**

Rugged, full-size American-made microscope features large working distance and 15x, 45x, and 75x magnification. Unusual versatility. Arm can be inclined in any direction of a 360° circle. Tube removable for field trips.

Kellner-type eyepiece. Triple divisible objective. Dual control rack & pinion focusing. Large reversible black and white stage. **\$54<sup>85</sup>**

No slides to prepare!

Write for details!

**TESTA MANUFACTURING CO.**  
Dept. SN-4 10126 East Rush St., El Monte, Calif.