

Books of the Week

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ADVANCES IN CARBOHYDRATE CHEMISTRY, Vol. 18—Melville L. Wolfrom and R. Stuart Tipson, Eds.—Academic Press, 456 p., illus., \$16.50. Contains articles on photochemistry of carbohydrates, chemistry of osotriazoles, trehaloses, and physical properties of solutions of polysaccharides.

CHARLES DARWIN AND NATURAL SELECTION—Alice Dickinson—Watts, F., 212 p., map, \$2.95. Tells the story of Darwin's life and work, and of the years of struggle for the acceptance of his theory.

CHEMISTRY OF LIFE—Katherine B. Hoffman and Archie L. Lacey—NSTA (McGraw), 127 p., illus. by John Ballantine, photographs, \$2.50. A Vistas of Science book, exploring biochemistry, its research frontiers and methods, with student activities section on probing cell life.

THE CHILD IN THE GLASS BALL—Karin Stensland Junker, transl. from Swedish by Gustaf Lannestock—Abingdon Press, 256 p., photographs, \$4. Story told by the mother of five children, two of whom are mentally handicapped.

COORDINATION COMPOUNDS—Dean F. Martin and Barbara B. Martin—McGraw, 99 p., diagrams, \$4.95; paper, \$1.95. An introduction to the chemistry of coordination compounds at the beginning undergraduate level.

ELECTRONS, ATOMS, METALS AND ALLOYS—William Hume-Rothery—Dover, 3rd rev. ed., 387 p., illus., paper, \$2.25. Revised and enlarged version of 1955 edition of work first published in 1948.

ENERGY, ELECTRICITY AND ELECTRONICS: Applied Activities—Rex Miller and Fred W. Culpepper Jr.—McKnight, 103 p., illus., \$4. Activities planned for use with basic electricity text.

ERASMUS DARWIN—Desmond King-Hele—Scribner, 183 p., portrait, map, \$3.95. Annotated biography of the grandfather of Charles Darwin, who was a physician, inventor and writer.

EXPLORATION OF THE UNIVERSE—George Abell—Holt, 646 p., illus., \$9.50. Text for a one-semester survey course in astronomy written for university students not majoring in a physical science, it presents astronomy as an example of the scientific approach.

THE GOLDEN MAGAZINE for Boys and Girls, Vol. I, No. 1—Robert D. Bezucha, Ed.-in-Chief—Golden Press, 64 p., illus., paper, 35¢; monthly, \$4 annually direct to publisher, Poughkeepsie, N. Y. Colorful magazine for young children full of puzzles, activities, nature studies and stories.

A HISTORY OF GEOMETRICAL METHODS—Julian Lowell Coolidge—Dover, 451 p., paper, \$2.25. Reprint (1940).

A HISTORY OF MEDICINE, Vol. 12 of The New Illustrated Library of Science and Invention—Jean Starobinski—Hawthorn Bks., 112 p., designed by Erik Nitsche, 183 illus., \$5.95. Of particular interest are the illustrations from historical archives.

THE HUMAN BODY: Its Structure and Operation—Isaac Asimov—New Am. Lib., 320 p., illus., by Anthony Ravielli, paper, 75¢. An informative study of man's anatomy and physiology, for the layman.

HUMANISTIC EDUCATION AND WESTERN CIVILIZATION: Essays for Robert M. Hutchins—Arthur A. Cohen, Ed.—Holt, 250 p., \$5.75. Collection of original essays devoted to the appraisal of the heritage and prospects of Western civilization and humanism in education.

HYDROLOGIC DATA FOR EXPERIMENTAL AGRICULTURAL WATERSHEDS IN THE UNITED STATES, 1956-59—Compiled and assembled by Harold W. Hobbs—Agric. Research Service, USDA (GPO), multipaged, illus., \$5. Presents basic data on monthly precipitation and runoff, annual maximum, selected data on rainfall, land use and antecedent conditions for agricultural watersheds.

Handbook of WATCH AND CLOCK REPAIRS by H. G. Harris

"This compact and explicit volume of instructions is for the manually dexterous person who has an interest in time-keepers. The author writes for the amateur who has no real knowledge of the subject, giving step-by-step instructions and accurate line drawings. He describes the special problems with the mechanisms in various types, including antique watches, the involved repeater clocks, and even cuckoo clocks. Advice is given concerning tools and materials and also work space. Recommended for the practical hobbyist."—Library Journal.

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INTRODUCING SCIENCE—Alan Isaacs, foreword by Isaac Asimov—Basic Bks., 244 p., diagrams, \$4.95. Attempts to present a picture of the fundamental principles of science to both the adult general reader and to the university student whose principal interests are nonscientific.

THE LAND AND WILDLIFE OF EURASIA—Francois Ronliere and the Editors of LIFE—Time Inc. Book Division, 198 p., illus., \$3.95 direct to publisher, 540 N. Mich. Ave., Chicago 11, Ill. Handsomely illustrated volume, examines the largest land mass on earth, its forms of life, and how it evolved geologically.

MATHEMATICAL CRYSTALLOGRAPHY and The Theory of Groups of Movements—Harold Hilton—Dover, 262 p., diagrams, paper, \$2. Reprint (1903).

METEORITES—Fritz Heide, transl. from German by Edward Anders with Eugene R. DuFresne—Univ. of Chicago Press, 144 p., illus., \$6.50. A compact scientific exposition of all important aspects of meteorites.

THE MYTH OF THE BRITANNICA—Harvey Einbinder—Grove Press, 390 p., illus., \$7.50. A critical review of the up-to-dateness, claims and editorial policies of this well-publicized standard encyclopedia of the Western World.

NAMING THE BIRDS AT A GLANCE: A Guide to the Eastern Land Birds from South Carolina west to the Rocky Mountains and north to the Arctic—Lou Blachly and Randolph Jenks—Knopf, 355 p., guide drawings by Sheridan Oman, \$3.95. A field-tested guide, using a new principle for grouping, based on the little a bird watcher catches at first fleeting sight of an unfamiliar specimen.

NONLINEAR MATHEMATICS—Thomas I. Saaty and Joseph Bram—McGraw, 381 p., \$12.50. Text covers linear and nonlinear transformations, nonlinear algebraic and transcendental equations, optimization, and linear and nonlinear prediction theory.

OBSERVATION AND INTERPRETATION IN THE PHILOSOPHY OF PHYSICS: With Special Reference to Quantum Mechanics—S. Korner, Ed. with M. H. L. Pryce—Dover, 218 p., illus., paper, \$1.60. Proceedings of the Ninth Symposium of the Colston Research Society held at the University of Bristol in 1957.

ONE HUNDRED PROBLEMS IN ELEMENTARY MATHEMATICS—Hugo Steinhaus, foreword by Martin Gardner—Basic Bks., 174 p., illus., \$4.95. These 113 stimulating puzzles by Polish mathematician, requiring a knowledge of mathematics up to calculus and an ability to think creatively, include 13 unsolved problems.

PRINCIPLES OF ELECTRICITY AND BASIC ELECTRONICS—Wendell H. Cornet and Wendell H. Cornet II—McKnight, 3rd ed., 366 p., illus., \$5.20. A textbook suitable for use in basic courses in secondary schools.

RADIO RAY PROPAGATION IN THE IONOSPHERE—John M. Kelso—McGraw, 408 p., diagrams, \$17.50. Provides an introduction to the geometrical optics of radio propagation in the ionosphere, covering such specialized topics as Faraday rotation experiments and whistler propagation.

READING DISABILITY: Diagnosis and Treatment—Florence Roswell and Gladys Natchez, foreword by Katrina de Hirsch—Basic Bks., 248 p., illus., \$5.50. Practical suggestions for remedial therapists and teachers, written in a spirit of empathy for the individual child's problems.

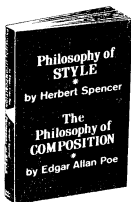
THE ROLE OF WOMEN IN SCIENCE: Proceedings—Mother M. Colette, Chmn.—Marymount College, multipaged, paper, \$3.50 direct to publisher, Tarrytown, N. Y. 10592. Papers and discussions of conference held under the auspices of the Executive Office of the President of the United States.

SCIENCE SHOWS YOU HOW: Exciting Experiments that Demonstrate Basic Principles—Kenneth M. Swezey—McGraw, 96 p., 120 photographs by author, \$3.50. Shows how to perform significant experiments with the simplest materials.

THE SENSES OF ANIMALS—L. Harrison Matthews and Maxwell Knight—Philosophical Lib., 240 p., photographs, \$7.50. First part of book explains what the naturalist can observe in the field, the second gives technical background of the way in which the senses of animals function.

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SOME MEDICAL ASPECTS OF MATHEMATICAL BIOLOGY—Nicolas Rashevsky—Thomas, C. C., 314 p., diagrams, \$12.75. Discusses the application of mathematics to pharmacological problems, comparing theory with experiments.

A STUDY OF HISTORY, Vol. 12: Reconsiderations—Arnold J. Toynbee—Oxford Univ. Press, 740 p., paper, \$2.95. Reprint (1961), in which historian reconsiders the philosophical questions raised by his methods of work, and updates accounts of some of the earlier civilizations in the light of recent archaeological discoveries.

TECHNICAL MEETINGS INDEX, January 1964, Vol. II, No. 1—Harry Baum, Dir.—TMIS, rev., 61 p., paper, quarterly, subscription \$25. Index covers period from January 1964 to December 1965, included in subscription are weekly mailings of "Calls for Papers" to more than 650 technical, scientific and medical meetings.

TRACKS ACROSS THE SKY: The Story of the Pioneers of the U.S. Air Mail—Page Shamburger—Lippincott, 179 p., photographs, \$4.95. The writer, a commercial pilot, tells the story of the early mail planes and the men who flew the mail between the wars.

WATER QUALITY CRITERIA—Jack Edward McKee and Harold W. Wolf, Eds.—Calif. State Water Quality Control Bd. (Dept. of Gen. Serv.), 2nd ed., 550 p., paper, \$6.50. Contains alphabetically arranged survey of potential pollutants, chemical, physical, biological, radiological and mixed.

• Science News Letter, 85:140 Feb. 29, 1964

Nature Note

Pussy Willow

► A WELCOME HARBINGER of spring that appears in the first warm days of the year is the pussy willow. Depending on the habitat, the pussy willow can be a shrub or small tree that may grow as tall as 25 feet.

It is beloved by children everywhere for its silvery-gray, furry-looking catkins. Both male and female catkins are from time to time called "pussies," because both kinds of catkins in this and many other willow species are hairy.

After fertilization is brought about by wind-borne pollen, the seeds of the willow mature and are launched on little cottony parachutes, much like those of the cottonwood.

The pussy willow may be recognized by its elliptically shaped leaves which are bright green above and silvery white beneath. The tree's scientific name is *Salix discolor Muhl*, the word *discolor* referring to the contrast in color of the leaves. Although this particular species has the common name of pussy willow, the similar catkins of other willow trees are sometimes called "pussies."

The pussy willow grows best in damp or wet places. Although its wood has no particular use, it is ornamental and useful in preventing erosion.

The pussy willow is commonly found from Labrador to Alberta and as far south as Maryland, Kentucky, Missouri and South Dakota.

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