

Books of the Week

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ACT RESEARCH REPORTS, No. 3 and 4: A Description of College Freshmen—Clifford Abe and John L. Holland—Am. College Testing Program, 51 p. each, paper, single copies free upon request direct to publisher, P. O. Box 168, Iowa City, Iowa 52240. No. 3 deals with students with different choices of major field, No. 4, with different vocational choices.

ACOUSTIC COAGULATION AND PRECIPITATION OF AEROSOLS—Evgenii Pavlovich Mednikov, transl. from Russian by Chas. V. Larrick—Consultants, 180 p., illus., paper, \$25. Monograph covers both the physical content of the processes and the practical industrial applications.

THE ATOMIC AGE: Scientists in National and World Affairs—Morton Grodzins and Eugene Rabinowitch, Eds.—Simon & Schuster, 616 p., paper, \$2.75. Selections of articles from the Bulletin of Atomic Scientists 1945-1962.

BEHAVIOR OF METALS UNDER IMPULSIVE LOADS—John S. Rinehart and John Pearson—Dover, 256 p., illus., paper, \$2. Reprint (1954).

CHEMISTRY IN THE SOVIET UNION—John Turkevich—Van Nostrand, 566 p., \$12. Short review of Russian chemistry up to the 19th century followed by detailed discussion of developments in the 20th century, lists of Soviet dissertations and recent publications by members of USSR Academy of Sciences.

THE DYNAMICS OF CONDUCTION ELECTRONS—A. B. Pippard—Gordon & Breach, 150 p., \$4.95; paper, \$1.95. Lectures on the theory of transport phenomena in metals.

EDUCATORS GUIDE TO FREE FILMSTRIPS—Mary Foley Horkheimer and John W. Diffor, Eds.—Educators Progress Service, 17th ed., 151 p., paper, \$6. Descriptive listing of informational filmstrips and slides arranged under subject headings.

ELECTRODYNAMICS—Leigh Page and Norman Irlsley Adams, Jr.—Dover, 505 p., paper, \$2.50. Reprint of second edition (1945) of work first published in 1940.

EMBODIMENTS OF MIND—Warren S. McCulloch—M.I.T. Press, 402 p., illus., \$12.50. The author calls his work an "attempt to found a physiological theory of knowledge." Most of the articles included were lectures in such interesting fields of specialization as neurophysiology, cybernetics, and the logical mechanics of physical machines, concluding with a report on the postulation foundations of experimental epistemology.

THE GEOGRAPHY OF AFRICAN AFFAIRS—Paul Fordham—Penguin Bks., 244 p., maps, paper, \$1.45. A general survey with regional studies of West Africa, Central, East and Southern Africa.

HYDROLOGIC DATA FOR EXPERIMENTAL AGRICULTURAL WATERSHEDS IN THE UNITED STATES, 1960-61—Harold W. Hobbs and Florence B. Crammatt—USDA (GPO), 496 p., illus., paper, \$2.75. Presents basic data on monthly precipitation and runoff, annual maximum discharges and volumes of runoff, and selected events with associated data.

LEARN MODERN MATH!

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IONOSPHERIC RADIO PROPAGATION—Kenneth Davies—NBS (GPO), 470 p., illus., \$2.75. Replaces earlier work (1948) of the same title, expanding such topics as electron-layer production, the geomagnetic field, magneto-ionic theory, and oblique propagation.

LANGUAGE, THOUGHT AND PERSONALITY in Infancy and Childhood—M. M. Lewis—Basic Bks., 256 p., \$5. Gives a systematic account of the growth of language in relation to general development in infancy and childhood.

MATHEMATICAL DISCOVERY, Vols. I and II: On Understanding, Learning and Teaching Problem Solving—George Polya—Wiley, 216 p., 191 p., diagrams, \$4.75, \$5.50. Problem solving is presented from the heuristic point of view, encouraging student to do problems and think about the means and methods he uses doing them.

MEN UNDER WATER—James Dugan and Richard Vahan, Eds.—Chilton Bks., 234 p., photographs, \$5.95. Prepared for the Underwater Society of America, this volume contains contributions on all phases of underwater exploration, from the Edgerton camera development to the planning of manned undersea stations, from the nuclear submarine Sargo's surfacing at the North Pole to deep-sea archaeology in Biblical waters.

NATURE'S CLUES—Walter C. Fabell—Hastings House, 119 p., illus. by Robert Patterson, \$3.50. Tells boys and girls about observations that have led to important discoveries.

NEW DIRECTIONS IN THE STUDY OF LANGUAGE—Eric H. Lenneberg—M.I.T. Press, 194 p., \$5. Presents a cross section of language research from the point of view of the psychologist, biologist and anthropologist.

OPTICAL METHODS OF INVESTIGATING SOLID BODIES—D. V. Skobel'syn, Ed., transl. from Russian—Consultants, 188 p., illus., paper, \$22.50. Dissertations deal with subjects such as polarized luminescence of molecular crystals, and vibrational spectra of oxides in the crystalline states.

OUR WORLD IN SPACE: An Easy Guide to the Universe—Henry O. King—Macrae Smith, 94 p., illus. by Alan Ball, \$2.95. A very simplified presentation for a young audience.

PENGUIN SURVEY OF THE SOCIAL SCIENCES 1965—Julius Gould, Ed.—Penguin Bks., 184 p., paper, \$1.25. A selection of articles for the non-professional reader, from observations on how small societies change, to an examination of 12 modes of prediction.

PERSONS HOSPITALIZED by Number of Hospital Episodes and Days in a Year: United States, July 1960 to June 1962—National Center for Health Statistics—PHS (GPO), 42 p., paper, 35¢. Statistics on persons with one or more episodes in short-stay hospitals during an average year.

PHOTOMETRY—John W. T. Walsh—Dover, 544 p., illus., paper, \$3. Unabridged republication of third edition published in 1958.

THE PICTURE HISTORY OF ASTRONOMY—Patrick Moore—Grosset & Dunlop, 2nd rev. ed., 253 p., 425 illus., \$6.95. The story of astronomy for the intermediate grades.

PRINCIPLES OF PSYCHOLOGICAL MEASUREMENT—G. C. Helmstadter—Appleton-Century-Crofts, 248 p., illus., \$5. A course in the logic and major principles of psychological measurement, presupposes some fundamental knowledge of elementary descriptive statistics.

PURCHASE GUIDE FOR PROGRAMS IN SCIENCE AND MATHEMATICS, 1965—The Council of Chief State School Officers with National Science Foundation—Ginn (N.Y.), 466 p., paper, \$4.60. Subject lists of equipment arranged by science, rated

basic, standard and advanced, with master list of equipment giving specifications for each item.

QUICK CALCULUS: A Short Manual of Self Instruction—Daniel Kleppner and Norman Ramsey—Wiley, 294 p., diagrams, paper, \$2.25. Programmed instruction in the elementary techniques of differential and integral calculus, with many working problems.

REDUCE AND STAY REDUCED on the Prudent Diet—Norman Joliffe, M.D.—Simon & Schuster, 251 p., illus., paper, \$1.45. A doctor's thorough discussion of the basic concepts of nutrition and weight control with specific instructions for menu plans. Reprint of third edition (1963).

SCIENCE TEACHING AND TESTING—Leo Nedelsky—Harcourt, 368 p., \$6.95. Addressed to teachers and prospective teachers of science in college and high school, deals primarily with the student's first course in a given science, with sample exercises mostly from the author's own field, physics.

SCIENTIFIC PSYCHOLOGY: Principles and Approaches—Benjamin B. Wolman, Ed. with Ernest Nagel—Basic Bks., 620 p., \$12.50. Thirty leading scholars evaluate the scientific bases of today's major psychological systems.

SYMPOSIUM ON THE ANALYSIS OF CENTRAL NERVOUS SYSTEM AND CARDIOVASCULAR DATA USING COMPUTER METHODS, 1964—Lorne D. Proctor and W. Ross Adey, Eds.—NASA (GPO), 484 p., illus., paper, \$4.50. Concerned with the study of the behavior of the mind and cardiovascular system, with particular regard for the use of mathematical techniques for analyzing the data.

THEORY OF ELASTICITY AND PLASTICITY—H. M. Westergaard—Dover, 176 p., diagrams, \$1.75. Reprint (1952).

THEORY OF RANDOM FUNCTIONS, Vol. I—A. Blanc-Lapierre and R. Fortet, transl. from French by J. Gani—Gordon & Breach, 432 p., prof. ed., \$14.50; ref. ed. \$22.50. A mathematical exposition of theory, with concrete examples.

THEY FLEW THE BENDIX RACE: The History of the Competition for the Bendix Trophy—Don Dwigings—Lippincott, 198 p., photographs, \$4.95. The story of the pilots competing with advanced aircraft in the Bendix Races since the first competition in 1931.

TRANSMISSION-LINE THEORY—Ronald W. P. King—Dover, 513 p., diagrams, paper, \$2.75. Reprint (1955).

WHO REALLY INVENTED THE SUBMARINE?—James Wycoff—Putnam, 95 p., \$2.95. For young boys.

WITH EVERY BREATH YOU TAKE: The Poisons of Air Pollution, How They Are Injuring Our Health and What We Must Do About Them—Howard R. Lewis, preface by Reginald H. Smart, foreword by Morris B. Jacobs—Crown Pubs., 322 p., photographs, \$5. A comprehensive discussion of the injuries that polluted air imposes on health, and the possibilities for control.

THE WORLD IS GREAT BRIDGES—H. Shirley Smith—Harper, rev. ed., 250 p., photographs, illus., \$4.95. British bridge builder tells the story of some of the world's most distinguished bridges, interpreting the technical difficulties involved.

YOUR GUIDE TO BOATING: Power or Sail—John Bohannon—Barnes & Noble, 407 p., illus., \$5.95; paper, \$2.50. Practical handbook with glossary.

• Science News Letter, 88:108 August 14, 1965

Do You Know?

In the Ruhr Basin of West Germany, where air is heavily polluted, over 15% of the children were reported to show symptoms of *ricketts* in 1961.

Ice that forms on salt water is almost free of salt.

About eight billion *meteors* strike the earth's atmosphere each day.

The commonest killer of newborn *babies* is hyaline membrane disease or respiratory distress syndrome.

Hula hoops are being used as storage tubes for brittle thermocouple wire.

Abraham Lincoln was granted a patent in 1849 for a device to buoy riverboats over sand shoals.

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