

Books of the Week

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ACUTE CONDITIONS: Incidence and Associated Disability, United States, July 1962-June 1963—Charles S. Wilder—PHS (GPO), 66 p., paper, 45¢. Statistics and findings based on data from national health survey.

ADVANCES IN ELECTRONIC CIRCUIT PACKAGING, Vol. 4—Michael A. Marrese, Ed.—Plenum Press, 490 p., illus., \$17.50. Proceedings of the Fourth International Electronic Circuit Packaging Symposium, held at Boulder, Colo., August 1963.

ALGORITHMS AND AUTOMATIC COMPUTING MACHINES—B. A. Trakhtenbrot, transl. from Russian by Jerome Kristian, James D. McCawley and Samuel A. Schmitt—Heath, 101 p., paper, \$2.10. The author considers the close relation between algorithms and computers, and proves the algorithmic unsolvability of several problems using the Turing machine.

ANALYTICAL AND CANONICAL FORMALISM IN PHYSICS—Andre Mercier—Dover; 222 p., paper, \$1.75. Reprint (1959). Material is arranged according to the various formalisms used in modern field theories.

AREAS AND LOGARITHMS—A. I. Markushevich, transl. from Russian by Ronald S. Toczek and Reuben Sandler—Heath, 48 p., diagrams, paper, \$1.45. Aims to develop the theory of logarithms from a geometric point of view. Only an acquaintance with polynomial functions of geometric progressions is required.

BASIC METHODS IN TRANSFER PROBLEMS: Radiative Equilibrium and Neutron Diffusion—V. Kourganoff with I. W. Busbridge—Dover, 281 p., paper, \$2. Reprint (1952), concerned with basic methods, uses "Milne's problem" as an illustration of all the different methods which can be used for approximate or exact solutions of transfer problems.

CALCULUS WITH ANALYTIC GEOMETRY—Albert G. Fadell—Van Nostrand, 705 p., illus.,

\$9.75. Written to be understood by students who completed most of high school offerings in mathematics, sufficiently sophisticated to challenge the best.

CHILD DEVELOPMENT AND PERSONALITY—Paul Henry Mussen, John Janeway Conger and Jerome Kagan—Harper, 2nd ed., 631 p., illus., \$7.25. Major innovation in revised edition is the extensive use of longitudinal case material, and greater emphasis is given to the notion of "critical periods" in infancy and preschool years.

COMPUTATION OF AREAS OF ORIENTED FIGURES—A. M. Lopshits, transl. from Russian by J. Massalski and Coley Mills, Jr.—Heath, 58 p., illus., paper, \$1.55. Begins with introducing concept of an oriented polygon, applies it to theory of planimeter and develops useful formula for computation.

CONFIGURATION THEOREM—B. I. Argunov and L. A. Skomyskov, transl. from Russian and adapted by Edgar E. Enochs and Robert B. Brown—Heath, 41 p., illus., paper, \$1.15. Presents several interesting theorems on collinear points and concurrent lines, with their application to practical geometric problems.

CONTINUING EDUCATION: A Stimulus for Engineering and Science—John R. Dunning, Chmn.—Columbia Univ., School of Eng., 169 p., illus., paper, for free copy write direct to Dr. Donaldavenport, N. Y. Dept. of Commerce, 112 State St., Albany, N. Y. Proceedings of conference sponsored by the N. Y. State Advisory Council for the Advancement of Industrial Research and Development.

CONTRIBUTION TO SCIENCE AND TECHNOLOGY—Preface by George F. Metcalf—Martin Co., 44 p., photographs, paper, single copies free upon request direct to Martin Co., Friendship Int'l Airport, Md. 21240. Bibliography of technical articles, papers and books written by Martin engineers and scientists, and brief description of patents.

COSMIC RAYS—S. N. Vernov and L. I. Dorman, transl. from Russian—NASA (OTS), 390 p., paper, \$5. Collection of papers from IGY Program, concerned with the intensities and variations of cosmic rays.

DR. CLYDE FISHER'S EXPLORING THE HEAVENS—R. S. Dodson, Jr.—Crowell, 214 p., illus., 50 photographs, \$4.95. The original work (1937) of the first head of the Hayden Planetarium, revised, enlarged and brought up to date.

THE METHOD OF MATHEMATICAL INDUCTION—I. S. Sominskii, transl. from Russian by Luise Lange and Edgar E. Enochs—Heath, 48 p., \$1.45. Introduces the reader to a valuable method of mathematical proof, by means of many examples from algebra, geometry and trigonometry, explores the topic in greater detail than most standard textbooks.

MISTAKES IN GEOMETRIC PROOFS—Ya. S. Dubnov, transl. from Russian by Alfred K. Henn and Olga A. Titelbaum—Heath, 57 p., diagrams, \$1.55. Presents examples of faulty geometric proofs, some of which illustrate mistakes in reasoning, while others are classic sophisms.

MODERN ADVANCES IN SCIENCE: A Layman's Guide—James Stokley—Ronald, 288 p., illus., \$5.50. Discusses some of the more interesting major and minor developments in science, such as new sources of energy, atoms for peace, new methods of transportation, superconductivity, fiber optics, laser, mechanical translating and electronics.

PESTICIDE HANDBOOK 1964—Donald E. H. Frear, Ed.—College Science Pubs., 16th ed., 316 p., \$3.50; paper, \$2.50. Completely revised, lists names, active ingredients and manufacturers of nearly 10,000 insecticides, fungicides, herbicides and other agricultural chemicals.

SPACE AND TIME IN CONTEMPORARY PHYSICS: An Introduction to the Theory of Relativity and Gravitation—Moritz Schlick, transl. from German by Henry L. Brose, introd. by F. A. Lindemann—Dover, 89 p., paper, \$1. Reprint (1920).

SUMMATION OF INFINITELY SMALL QUANTITIES—I. P. Natanson, transl. from Russian by Stephen Whelan and Coley Mills, Jr.—Heath, 59 p., diagrams, paper, \$1.65. Presents implications of the fundamental concept upon which the integral calculus is built, and shows their use in the solution of concrete problems.

THE USE OF TOYS IN TEACHING ENGLISH TO NON-ENGLISH SPEAKING CHILDREN—Sarah Yoder and others; Irving W. Stout and Grace Langdon, Eds.—Ariz. State Univ., 104 p., paper, write direct to university, Bur. of Educ. Research, College of Educ., Tempe, Ariz. Report on four-year research project using toys in public school to teach Navajo children.

THE VANISHING VILLAGE: A Danish Community—Robert T. Anderson and Barbara Gallatin Anderson—Univ. of Wash. Press, 148 p., 2 plates, map, \$5. This sociocultural study documents the transformation of a straw-roofed small fishermen's community into an urban annex.

• Science News Letter, 86:60 July 25, 1964

PUBLIC HEALTH

Summer Ants, Flies Evicted from Houses

► **TIGHTEN THE LID** of your garbage can and do not let food sit out during the summer months.

This removes breeding and feeding grounds of the obnoxious house fly, one of the filthiest of insect pests, states insect specialists in the new bulletin, "Controlling Household Pests," recently published by the U. S. Department of Agriculture.

To keep the mosquito population down, clean out the rain gutters and make sure that any unneeded water is not standing around the house or garden in discarded tubs, buckets or other containers. Stagnant water is the home for the young mosquito larvae.

You might also look for the wiggling mosquito larvae in the water in flower vases, U. S. entomologists suggest. Look for them also in water that collects in saucers under potted plants. Even some fish bowls and aquariums may have the baby mosquitoes, as some kinds of fish do not eat the wigglers.

The researchers point out that it is easier to keep pests out than to get them out. The best preventative is good housekeeping, which includes sanitary practices and proper care of food, clothing and other household articles susceptible to insect damage.

The booklet discusses habits and control of all ordinary household pests such as ants, termites, rats, mice, centipedes and even bats.

• Science News Letter, 86:60 July 25, 1964

EDUCATION

\$7 Million Grant to Aid Talented Negro Youth

► **TALENTED** Negro high school students will get a preferred opportunity to attend the college of their choice under a \$7 million Ford Foundation grant.

Administered by the National Merit Scholarship Corporation, the money will be used to provide 200 four-year "National Achievement Scholarships" a year.

These scholarships for outstanding Negro high school graduates will be administered in a manner similar to the National Merit Scholarships, which are open to all, but not won by Negroes in proportion to the population. They will be based on need and will range in size from \$1,000 to \$6,000 for the four years.

• Science News Letter, 86:60 July 25, 1964

Do You Know?

A new V-slotted screw head and matching *screwdriver* make inserting and removing screw fasteners easier.

X-ray *detectors* flown in rockets high above the earth's atmosphere aid in the study of distant star groups.

• Science News Letter, 86:60 July 25, 1964

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