

Books of the Week

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ALEXANDER VON HUMBOLDT—J. W. Dyck and H. E. Huelsbergen—Blaisdell Pub. Co., 85 p., illus., paper, \$1.25. A German language reader with exercises and vocabulary, offers practice in German with biographical sketch about a scientist.

THE ASSESSMENT OF SCIENTIFIC SPECULATION: A Survey of Certain Current Views—R. A. R. Tricker—Am. Elsevier Pub. Co., 200 p., illus., \$6. Four views of the nature of science are discussed in answer to different questions, inviting the student to synthesize his own philosophy on the subject.

AUTOMATION AND ELECTRONICS IN PUBLISHING—Lowell H. Hattery and George P. Bush, Eds.—Spartan Bks., 206 p., illus., \$8.75. On the experience in the use of electronic computers in newspaper production, book composition and directory production, and on the technology, management and economics of automated printing.

BASIC PROPOSITIONS FOR EARLY CHILDHOOD EDUCATION—Norma Law and others—ACEI, 12 p., paper, 25¢ direct to Assn. for Childhood Education, 3615 Wisconsin Ave., NW, Washington, D.C. Summarizes the essential elements that encourage readiness for learning in children.

BEASTS, BRAINS AND BEHAVIOR: Exploring the "I.Q." of Animals Plus Related Projects—James Wiley, Ed.—Four Winds Press (Scholastic), 128 p., illus., \$2.50. Tells young people about results of experiments in animal behavior and suggests a variety of projects.

BIOLOGY: An Inquiry into the Nature of Life—Stanley L. Weinberg—Allyn & Bacon, 684 p., photographs, diagrams, \$6.24. A balanced secondary school text, stressing the methods by which biologists seek answers to the questions they raise, each chapter invites further inquiry with more difficult questions for the advanced students.

THE BIRD: Its Form and Function—C. William Beebe, new introd. by Dean Amadon—Dover, 496 p., 370 illus., paper, \$2.75. Unabridged republication of work first published in 1906.

THE BIRD WATCHER'S QUIZ BOOK—Henry Hill Collins, Jr.—Dover, 116 p., illus. by Russell Francis Peterson, paper, \$1. Reprint (1961) of graduated quiz book for the amateur, the advanced bird watcher and the specialist.

A BOOK ABOUT YOU: How to Be All You Are Capable of Being—Pearl Roam—Barron's Educ. Series, 45 p., paper, 50¢. Intended to help young people to know and accept themselves.

CARNEGIE CORPORATION OF NEW YORK: Annual Report 1965—Alan Pifer, Act. Pres.—Carnegie Corp., 107 p., illus., paper, single copies free upon request direct to Corporation, 589 Fifth Ave., New York 10017. Reviews programs supported by Carnegie grants and includes Dr. Gardner's essay on "The Antileadership Vaccine."

CARNEGIE INSTITUTION OF WASHINGTON: Year Book 64 (1964-1965)—Caryl P. Haskins, Pres.—Carnegie Institution of Washington, 596 p., illus., \$1.50. The President's report and the reports on special studies in the various departments of the research institution, the observatories, geophysical laboratory, genetics research unit and cytogenetics laboratory.

COMMERCIAL TIMBERS OF THE WORLD—F. H. Titmuss—Technical Press Ltd. (Chemical Rubber Co.), 277 p., 34 plates, \$15. Thoroughly revised third edition of author's Encyclopedia of World Timbers, with detailed descriptions of some 250 kinds of timber, illustrated with photomicrographs.

COMPUTERS AND THE HUMAN MIND—Donald G. Fink—Doubleday, 301 p., diagrams, paper, \$1.45. An introduction to artificial intelligence, tells how different machines "learn" to answer questions and shows the limitations of similarities between computer and brain.

CONGESTION THEORY: Proceedings of Symposium, 1964—Walter L. Smith and William E. Wilkinson, Eds.—Univ. of N.C. Press, 457 p., \$14. Deals with mathematical research on networks of queues, priority queueing systems, heavy traffic approximations and the application of combinatorial methods to queueing theory.

CURIOSITIES OF LIGHT RAYS AND LIGHT WAVES—S. Tolansky—Am. Elsevier Pub. Co., 110 p., 24 plates, diagrams, \$4.50. Avoiding mathematics and formulas, the book deals with the science of optics from early ideas on light to Doppler effect and wave theory of matter.

THE ENVIRONMENT IN MODERN PHYSICS: A Study in Relativistic Mechanics—C. W. Kilmister—Am. Elsevier Pub. Co., 134 p., illus., \$5. Describes a comprehensive picture of modern physical developments in terms of the interaction of a system and its environment.

A FLORA OF NORTHEASTERN MINNESOTA—Olga Lakela—Univ. of Minn. Press, 541 p., illus., \$10. Based on a quarter century of botanical field studies extending over an area of 9,229.71 square miles.

THE GEOGRAPHY OF FRONTIERS AND BOUNDARIES—J. R. V. Prescott—Aldine Pub. Co.,

190 p., maps, \$5. A book defining concepts, discussing frontiers, the evolution of boundaries, border landscapes, boundary disputes and geographical studies of intranational boundaries.

HANDBOOK ON ROSES—Sidney B. Hutton, Ed.—Brooklyn Botanic Garden, 81 p., illus., paper, \$1 direct to publisher, Brooklyn, N.Y. 11225. A quick reference to all phases of rose culture, abundantly illustrated, includes easily understood descriptive keys to rose classes.

INDIAN CRAFTS OF GUATEMALA AND EL SALVADOR—Lilly de Jongh Osborne—Univ. of Okla. Press, 278 p., 82 plates, maps, \$7.50. A village-by-village account of the materials and techniques, the dyes, looms, weaving and designs, clothing and accessories, mats, hats, baskets, ceramics and gourds produced by Indians.

KIN KLETSO: A Pueblo III Community in Chaco Canyon, N. Mex.—Gordon Vivian and Tom W. Mathews—and **THREE-RING DATING OF THE ARCHAEOLOGICAL SITES in the Chaco Canyon Region, N. Mex.**—Bryant Bannister—Southwestern Monuments Assn., 214 p., illus., paper, \$5. Analysis of data based on excavations in New Mexico.

LIBRARIES OF THE FUTURE—J. C. R. Licklider—M.I.T. Press, 219 p., diagrams, \$6. The final report of a two-year inquiry into the applicability of some of the newer techniques for handling information in recorded form and making it available for use in research libraries.

THE MAMMALIAN GENERA ARCTORYCTES AND CRYPTORYCTES: From the Oligocene and Miocene of North America—Charles A. Reed and William D. Turnbull—Chicago Natural Hist. Mus., 78 p., illus., paper, \$3.50. Detailed description of the fossil fauna based on adequate samples of micro-faunal fragments.

THE MAMMALS: A Guide to the Living Species—Desmond Morris, foreword by Fairfield Osborn—Harper, 448 p., photographs, maps, \$12.95. A major listing of the known species of the mammals of the world, numbering some 4,237 according to the author, with statistical sections for the technical mammalogist, and 300 typical species discussed for the general reader.

THE MAST CELLS—Hans Selye—Butterworths (Washington, D.C.), 498 p., illus., \$17.75. Systematic treatise evaluating critically more than 2500 references from the international literature on mast cells, from their discovery almost 100 years ago to the present day.

THE MENTALLY RETARDED: Their New Hope—Joseph P. Kennedy Jr. Foundation, 20 p., photographs by Bruce Roberts, paper, free upon request to President's Committee on Mental Retardation, Rm. 3232 S. Bldg., 330 C Street, SW, Washington, D.C. Booklet tells what can be done about mental retardation.

METHOD OF MOMENTS IN APPLIED MATHEMATICS—Yu V. Vorobyev, transl. from Russian by Bernard Seckler—Gordon & Breach, 168 p., \$12.50. Acquaints research workers with the theory behind the moment method of finding the eigen-values of a linear operator approximately and of solving linear problems.

A NEW SPECIES OF MOLE (Genus Talpa) from Kurdistan Province, Western Iran—Douglas M. Iay—Chicago Natural Hist. Mus., 4 p., illus., paper, 25¢ direct to publisher, Chicago, Ill. 60605. Detailed measurements and taxonomic description of Talpa streeti.

PARTICLE SIZE: Theory and Industrial Applications—Richard D. Cadle—Reinhold, 390 p., illus., \$16.50. Devoted to the practical importance of particle size as it affects the properties of powders and suspension of powders, their physiological action in the human body and air pollution.

THE PHYSICS OF SPACE—Richard M. Sutton—Holt, 176 p., illus., \$2.95. A physicist explains at high school level the many ways in which physics is important to our understanding of space, of the solar system, and of such concepts as vacuum, gravitation, weightlessness and time.

PLASTIC ANALYSIS AND DESIGN, Vol. 1: Beams and Frames—C. E. Massonnet and M. A. Save—Blaisdell Pub. Co., 379 p., illus., \$10.50. Intended to meet the needs of both student and practising engineers, treating theory from the viewpoint of the engineer rather than the applied mathematician.

ROSTER OF U.S. GOVERNMENT RESEARCH AND DEVELOPMENT CONTRACTS in Aerospace and Defense—Compiled by Frost & Sullivan—Bowker Associates (Washington, D.C.), 801 p., \$20. Computer-programmed reference work listing fields-of-interest and specific R&D contract awards to American research and development institutions and companies from July 1963 to June 1964.

SAMPLING: A Quick, Reliable Guide to Practical Statistics—Morris James Slonim—Simon & Schuster, 144 p., illus., paper, \$1.45. Reprint (1960, Sampling in a Nutshell).

THE SOCIAL RESPONSIBILITY OF GYNECOL-

OGY AND OBSTETRICS—Alan C. Barnes, Ed.—Johns Hopkins Press, 210 p., illus., \$5.95. Proceedings of 1965 conference where medical specialists considered their responsibility to society concerning the quantity and quality of the next generation, legal aspects, detection of cancer, marriage counseling and the role of public agencies.

SOVIET CHESS—D. J. Richards—Oxford Univ. Press, 201 p., \$4. An annotated study of the development of chess as an integral part of Soviet culture, the Russian approach to chess theory and practice, and the concept of the Soviet school of chess.

STRUCTURAL TRANSFORMATIONS IN GLASSES AT HIGH TEMPERATURES—N. A. Toropov and E. A. Porai-Koshits, transl. from Russian by E. B. Uvarov—Consultants, 223 p., illus., \$25. Papers reporting the results of theoretical and experimental investigations in the structure and crystallization of glass for the solution of problems in the production of high-strength and heat-resistant materials.

TEACHER'S HANDBOOK ON VENEREAL DISEASE EDUCATION—William F. Schwartz—NEA, 152 p., illus., paper, \$2. Prepared by the American Association for Health, Physical Education and Recreation, a department of the National Educational Association.

A TEXTBOOK OF MAGNETOHYDRODYNAMICS—J. A. Shercliff—Pergamon Press, 265 p., diagrams, \$3.95. Acquaints advanced undergraduates with the kinetic aspects of MHD, the magnetic force and its effect, boundary conditions, linear MHD and magnetohydrodynamics.

TWINS: Twice the Trouble, Twice the Fun—Betsy Holland Gehman—Lippincott, 224 p., \$4.95. Brings together some facts about twins and practical experiences in dealing with twin babies.

VIDEO TAPE RECORDING: New Markets and Products—Chris H. Schaefer, Cedric L. Suzman and others—Hobbs, Dorman & Co. (N.Y.), 104 p., diagrams, \$12. Attempts to give a comprehensive analysis of significant technical developments in the field.

WEAK INTERACTIONS OF ELEMENTARY PARTICLES—L. B. Okun', transl. from Russian by Z. Lerman, I. Merz, Ed.—Israel Program for Scientific Transl. (Daniel Davey, N.Y.), 174 p., diagrams, \$12.75. Intended for experimentalists in high energy physics, extrapolates the two hypotheses of a universal weak interaction and the compound model of strongly interacting particles.

WHO'S WHO IN THE HISTORY OF PHILOSOPHY—Thomas Kiernan—Philosophical Lib., 185 p., \$6. A biographical dictionary, sketching the highlights of the life and thought of more than 400 traditional and contemporary philosophers.

• Science News Letter, 89:44 January 15, 1966

PUBLIC HEALTH

British Farmers Warned Against Drugging Cows

► BRITISH DAIRY FARMERS have been warned that if their milk contains traces of drugs its value will drop by one-third soon.

The drugs referred to are antibiotics such as penicillin, used on farms to treat a disease in cows that costs about \$60 million a year in lost milk.

To prevent milk being tainted with these drugs when it reaches housewives the Government has insisted on regular tests and price penalties, Dr. Edward Green, chief chemist of the British Milk Marketing Board, told dairy farmers.

He said that doctors were worried about effects of the antibiotics on people who were allergic to them. Organisms could also become resistant to the drugs.

Monthly testing of milk supplies for drug traces began last November in nearly 400 laboratories run by dairymen.

Penicillin was detected in about 10% of Britain's milk supplies in 1961, Dr. Green said, but the percentage had fallen by half in 1964.

The Milk Board is expected to announce final details of the price penalty scheme after the next meeting, and it may become effective this month.

After a trial period farmers would lose 14 cents a gallon on all milk found to contain antibiotic traces at the second time of testing, added Dr. Green.

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