

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.

ACTIVITIES IN EARTH SCIENCE: Laboratory Manual—Namowitz—*Van Nostrand*, 180 p., illus., paper, \$2.20. To accompany EARTH SCIENCE, The World We Live In.

ADVANCES IN PSYCHOSOMATIC MEDICINE: Symposium of the Fourth European Conference on Psychosomatic Research—Arthur Jores and Hellmuth Freyberger, Eds.—*Brunner (Basic Bks.)*, 334 p., \$8.50. Conference discussed methods and principles of research on psychosomatic fundamentals, and training for psychosomatic medicine.

ARMS REDUCTION: Program and Issues—David H. Frisch, Ed.—*Twentieth Century Fund*, 162 p., paper, \$1.25. Series of papers discussing technical and strategic problems of specific arms control plans and systems.

ARTIFICIAL EARTH SATELLITES, Vols. 3, 4 and 5—L. V. Kurnosova, Ed., transl. from Russian—*Plenum Press*, 576 p., illus., \$15. Translated Russian papers on technical topics, such as sodium vapor diffusion method, radio-frequency mass spectrometer, magnetometers in Sputnik III, and impacting of meteoric matter.

ARTIFICIAL SATELLITES—Michael W. Ovenden—*Penguin*, 128 p., photographs, illus. by Kenneth James, paper, \$1.25. Short illustrated guide to rockets, satellites and space probes.

THE ASTRONAUTS: The True Story of Man's Greatest Adventure in Outer Space—Don Myrus—*Grosset*, 92 p., photographs, \$1.95. For young people.

BASIC ELECTRICITY—U. S. Bureau of Naval Personnel—*GPO*, 448 p., illus., paper, \$3.50. Navy training course in two parts, with both limited and broader coverage.

THE BASIC WRITINGS OF BERTRAND RUSSELL, 1903-1959—Robert E. Egner and Lester E. Denonn, Eds., preface by Bertrand Russell—*Simon & Schuster*, 736 p., \$10. Wide selection of Nobel's essays, writings on mathematics, education, science and international affairs, with chronology of life and works.

CAN SCIENCE SAVE US?—George A. Lundberg—*Longmans*, 2nd ed., 150 p., \$2.75. Updated edition of sociologist's investigation of the application of the scientific method to problems of human and social relations.

CELL PHYSIOLOGY OF NEOPLASIA—Russell W. Cumley and others, Eds.—*Univ. of Texas Press*, 653 p., illus., \$10.50. Papers presented at the Fourteenth Annual Symposium on Fundamental Cancer Research, discussing nucleus, cytoplasm, nucleic acids, and cell growth.

CHEMISTRY—Michell J. Sienko and Robert A. Plane—*McGraw*, 2nd ed., 623 p., illus., \$7.50. First-year college course emphasizing principles, with hundreds of problems that call for comprehension in their solution.

CHEMISTRY: Man's Servant—Leonard J. Flidner and Louis Teichman—*Allyn*, rev. ed., 625 p., illus., \$5.48. Beginning textbook, emphasizing chemistry as it exists today.

THE CHEMISTRY OF NUCLEIC ACIDS—D. O. Jordan—*Butterworths*, 358 p., illus., \$10.50. Comprehensive treatment of the chemistry and structure of nucleic acids.

THE CHOICE OF A MEDICAL CAREER: Essays on the Fields of Medicine—Joseph Garland and Joseph Stokes III, Eds.—*Lippincott*, 231 p., \$5. Leaders in their respective fields of medicine present the growth and present state of their specialty.

CLASSICS IN PSYCHOLOGY—Thorne Shipley, Ed.—*Philosophical Lib.*, 1,342 p., \$20. Selections, many full-text, others not previously translated, from leading psychologists and psychiatrists, covering every major school in the field over the past 150 years.

CONTEXT: A University of Chicago Magazine, Vol. 1, No. 1—Carl W. Larsen, Ed.—*Univ. of Chicago*, 36 p., illus., paper, quarterly available to friends of the University from Office of Public Relations, Chicago 37, Ill. Contains special 12-page report on Chancellor George W. Beadle.

THE CRISIS IN AMERICAN MEDICINE—Marion K. Sanders, Ed., foreword by John Fischer—*Harper*, 149 p., \$3.75. Much expanded version of articles first published in *Harper's Magazine* of October, 1960.

A DEVICE AND TESTS FOR MEASURING INTELLECTUAL FUNCTIONS DURING ACCELERATION—Irwin Miller, George B. Simon and Edwin Cohen—*WADD (OTS)*, 43 p., illus., paper, \$1.25. Report on tests with LIFT device used with human centrifuge.

ELECTROLYTIC DISSOCIATION—C. B. Monk—*Academic*, 320 p., \$10. Intermediate level treatment in the properties of electrolytes, and mostly concerned in the study of their dissociation in solution.

ELECTRONIC DRAFTING HANDBOOK—Nicholas M. Raskhodoff—*Macmillan*, 402 p., illus., \$14.75. Shows how to prepare every kind of electronic drawing: schematics, wiring diagrams, working drawings, interconnections. Includes 156-page reference appendix.

FAMILY SPENDING PATTERNS AND HEALTH CARE—H. Ashley Weeks and others, foreword by Odin W. Anderson—*Harvard Univ. Press*, 140 p., \$3.50. Based on survey of 500 middle-income families in one community.

THE FIFTEEN WONDERS OF THE WORLD—Rene Poirier, transl. from French by Margaret Crossland—*Random House*, 400 p., illus., \$5.95. The story of human achievement in great feats of engineering, ranging from the Pyramids to the Oak Ridge atomic power project.

FILTERS AND ATTENUATORS—Alexander Schure, Ed.—*Rider, J. F.*, 87 p., paper, \$2.25. Explains functions, types, circuitry and applications of filters and attenuators.

THE FUTURE METROPOLIS—Lloyd Rodwin, Ed.—*Braziller*, 253 p., \$5. Evaluation of the basic features and problems of the modern phenomenon of vast urban development, by a variety of specialists.

GARDENING WITHOUT WORK: For the Aging,

the Busy and the Indolent—Ruth Stout—*Devin-Adair*, 214 p., illus. by Nan Stone, \$3.95. Entertaining reading about short-cuts to producing vegetables and fruits in your garden.

GEOCHRONOLOGY OF ROCK SYSTEMS—J. Lawrence Kulp, Ed.—*N.Y. Acad. of Sciences, Annals*, Vol. 91, Art. 2, 435 p., illus., paper, \$5. Conference papers on methodology, means of dating sedimentary rocks and continent-by-continent discussion of the age of basement rocks.

HEALTH IN CHILDHOOD—Richard W. B. Ellis—*Penguin*, 251 p., photographs, paper, \$1.25. Concise account of the factors that favor health in childhood, tracing child's development from conception, through birth and infancy, to puberty.

HOUSE OF HEALING: The Story of the Hospital—Mary Risley—*Doubleday*, 288 p., illus., \$4.50. A layman's history of the hospital from Babylon, Egypt, Greece and Rome to the great medical centers of today.

HOW TO GUIDE YOUR CHILD'S EDUCATION—Robert E. Wilson—*Harper*, 129 p., \$3.50. Informal handbook answering questions of parents who have school children of all ages.

HOW TO SOLVE PHYSICS PROBLEMS—Edwin M. Ripin—*Rider, J. F.*, 122 p., illus., paper, \$1.80. Meant as an aid to the high school physics teacher, uses dimensional technique in solving 200 physics problems.

HUMAN HEREDITY—Jean Rostand, transl. from French by Wade Baskin—*Philosophical Lib.*, 139 p., illus., \$4.75. Basic and complex facts of human heredity, written by scientist for the layman.

LISTEN AND LEARN: Portuguese—*Dover*, three 12-inch long-playing records and manual, \$5.95. Dual-language recording of more than 800 practical sentences for the traveler.

LONDON IN COLOR—Introd. by Neville Braybrooke—*Viking*, 71 p., photographs, \$3. City views with background information.

THE LONG ROAD TO MAN—Robert L. Lehrman—*Basic Bks.*, 192 p., illus. by author, \$3.95. The story of the evolution of animal life, written by high school biology teacher for those of his students who want to know more than the textbook offers.

MAN AND THE MOON—Robert S. Richardson—*World Pub. Co.*, 171 p., illus. by Chesley Bonestall, photographs, \$6.50. Popularly written commentary on imaginary and planned space flights to moon, and description of lunar surface features.

MAN IN PROCESS—Ashley Montagu—*World Pub. Co.*, 313 p., \$4.50. Anthropologist, in most readable language, analyzes man's process of learning to be a more rational human being.

MEASURE, LEBESGUE INTEGRALS AND HILBERT SPACE—A. N. Kolmogorov and S. V. Fomin, transl. from Russian by Natascha Artin Brunswick and Alan Jeffrey—*Academic*, 147 p., \$4. Second volume of two-volume work entitled *Elements of the Theory of Functions and Functional Analysis*.

THE MECHANISM OF EVOLUTION—W. H. Dowdeswell—*Harper*, 2nd ed., 115 p., illus., paper, 95¢. Presents the main ideas prevalent today concerning the evolutionary trends and shows how the process of evolution can be studied experimentally.

MENTAL HEALTH IN THE UNITED STATES: A Fifty-Year History—Nina Ridenour—*Harvard Univ. Press*, 146 p., \$3.50. Readable short history of the mental health movement from its beginnings in 1908, when the Connecticut Society for Mental Hygiene was organized.

THE METALLURGY OF SEMICONDUCTORS—Yu M. Shashkov, transl. from Russian by J. E. S. Bradley—*Consultants*, 183 p., illus., \$9.50. Sur-



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veys in detail the semiconductor metallurgy of germanium and silicon.

MICHAEL FARADAY: A List of His Lectures and Published Writings—Alan E. Jeffreys, foreword by Sir Lawrence Bragg—*Academic* for the Royal Institution of Great Britain, 86 p., illus., \$7. Lists in chronological order Faraday's books, articles, papers, letters to the Press, lectures and manuscript lecture notes.

MICRO-ORGANISMS AS ALLIES: The Industrial Use of Fungi and Bacteria—C. L. Duddington—*Macmillan*, 256 p., illus., \$5.95. Describes the world of industrial microbiology in non-technical terms, the yeasts of brewer, distiller and baker, moulds and antibiotics, vinegar, and nitrogen fixers.

A MIDWESTERN ALMANAC: Pageant of the Seasons—Austin L. Rand and Rheua M. Rand—*Ronald*, 176 p., illus. by Ruth Ingeborg Andris, \$4.50. The annual cycle of birds, mammals, frogs, insects and plants, by zoologist-naturalist husband-wife team.

MILK: The Mammary Gland and Its Secretion, Vols. I and II—S. K. Kon and A. T. Cowie, Eds.—*Academic*, 515 p., illus., 423 p., \$14, \$12. First volume treats morphogenesis, structure, growth, functional physiology and biochemical activities; second volume discusses nutrition of lactating animals and nutritional value of milk.

MODEL ROCKETS FOR BEGINNERS—H. H. Gilmore—*Harper*, 115 p., illus. by author, \$2.50. Shows young boys how to make simplified models of real rockets described.

MODERN COMPUTING METHODS—C. W. Clenshaw and others—*Philosophical Lib.*, 2nd rev. ed., 172 p., \$6. Working manual for scientists and engineers and basis for courses in numerical analysis.

MUSIC OF THE SPHERES—Guy Murchie—*Houghton*, 644 p., illus. by author, \$6.95. Facts and speculations of the world of astronomy and astrophysics in vivid, non-technical language, with author's original explanatory drawings.

NATIONAL PLANT CONSERVATION GUIDE—Ethel Magwood Burns—*Nat. Council Bks.*, unpagged, illus. by James E. Owens, \$3; paper, \$2. State-by-state compilation of data on official flowers, birds, trees and plant preservation lists.

NATURE'S YEAR: The Seasons of Cape Cod—*Doubleday*, 199 p., woodcuts by David Grose, \$4.50. Precise observations of nature through the changing seasons.

THE NERVE OF SOME ANIMALS—Robert Fromman—*Lippincott*, 250 p., illus. by Charles Hargens, \$4.95. True stories about individual wild animals in their encounters with man.

NEW LAWS FOR NEW FORESTS: Wisconsin's Forest-Fire, Tax, Zoning and County-Forest Laws in Operation—Erling D. Solberg—*Univ. of Wis. Press*, 611 p., \$7.50. Report examines and discusses the operation of laws designed to reforest the cutover counties of Wisconsin.

THE ORION BOOK OF BALLOONS—Charles Dollfus—*Orion*, 108 p., 70 illus., \$6.95. History of ballooning, attractively presented for general reader.

THE ORION BOOK OF EVOLUTION—Jean Rostand, transl. from French—*Orion*, 102 p., 70 full-page photographs, \$6.95. Well-known experimental biologist offers general reader a survey of the history of the idea of evolution and concludes with projection of man's genetic future in the atomic age.

PEACETIME USES OF ATOMIC ENERGY—Martin Mann—*Viking*, rev. ed., 191 p., 100 photographs, \$5. Popularly written and up-to-date review of the many uses of the atom in medicine and agriculture, industry and research.

PERSPECTIVE IN VIROLOGY, Vol. II—Morris Pollard, Ed.—*Burgess*, 220 p., illus., \$8. Proceedings of symposium sponsored by the Gustav Stern Foundation in honor of Peyton Rous.

PETER AND CAROLINE: A Child Asks about Childbirth and Sex—Sten Hegeler, introd. by Alexander Adler, M. D. and W. C. W. Nixon, M. D.—*Abelard-Schuman*, 35 p., illus. by Gerda Nystad, \$2. Intended to help mother meet the problem when a child first asks about sex.

THE PHYSICAL PRINCIPLES OF ASTRONAUTICS: Fundamentals of Dynamical Astronomy and Space Flight—Arthur I. Berman—*Wiley*, 350 p., illus., \$9.25. Concise but thorough presentation of the basic principles of the science and technology of the placement and control of manned and unmanned objects in space, on a beginning-graduate level.

THE RACE TO THE SOUTH POLE—William Bixby—*Longmans*, 215 p., \$3.25. Tells young people the story of Antarctic exploration between 1901 and 1913.

REPORT OF THE MISSION TO THE SEVEN UNIVERSITIES OF CHILE, with Appendices—Harry M. Miller, Sr., Project Coordinator—*Nat. Acad. of Sciences-Nat. Res. Council*, 95 p., 132 p., paper, free upon request direct to publisher, Office of International Studies, 2101 Constitution Ave., Washington 25, D. C. Study prepared for the International Cooperation Administration.

SCOTLAND IN COLOR—Fred Urquhart—*Viking*, 72 p., photographs by Kenneth Scowen, \$3. Picture book of Scottish landscapes and landmarks with text.

THE STRANGE WORLD OF ANIMAL SENSES—Margaret Cosgrove—*Dodd*, 94 p., illus. by author, \$3. Explains for boys and girls unusual facts in the development of senses up through the various animal groups.

TABLES OF ALL PRIMITIVE ROOTS OF ODD PRIMES LESS THAN 1000—Roger Osborn, foreword by Harry S. Vandiver—*Univ. of Texas Press*, 70 p., \$3. Valuable tool for number theorists.

THE TEACHING OF ARITHMETIC—Herbert F. Spitzer—*Houghton*, 3rd ed., 352 p., \$5. New edition presents more specific teaching procedures and gives more space to fundamental processes with whole numbers.

THE THEORY OF CRYSTAL STRUCTURE ANALYSIS—A. I. Kitaigorodskii, transl. from Russian by David and Katherine Harker—*Consultants*, 275 p., \$12.50. Monograph on the construction of a complete theory of the relationships between structure amplitudes.

TRANSFORMERS—Alexander Schure, Ed.—*Rider*, J. F., 82 p., illus., paper, \$2. Discusses transformer theory and various types of transformer operations and applications.

TWENTY-THOUSAND LEAGUES UNDER THE SEA—Jules Verne—*Associated Booksellers*, 192 p., \$3. Reprint of classic about the voyage of the fictitious submarine "Nautilus."

VECTORS IN THREE DIMENSIONAL GEOMETRY—Abraham M. Glicksman—*Nat. Council of Teachers of Mathematics*, 47 p., illus., paper, \$1.20. Presents fairly rigorous treatment of vector algebra, interspersed with geometric interpretations and applications.

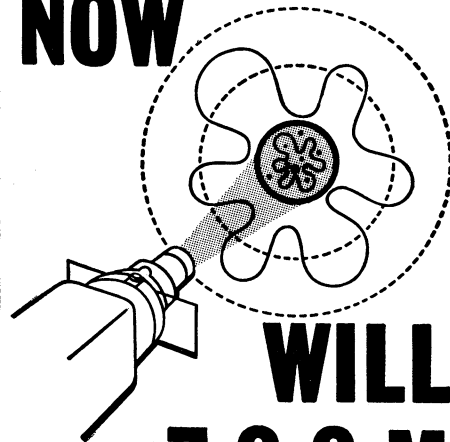
X-RAY ANALYSIS OF ORGANIC STRUCTURES—S. C. Nyburg—*Academic*, 434 p., illus., \$13. Presents X-ray structural method with a minimum of formal mathematics, and gives survey of the organic and biological materials that have so far been examined.

YOU AND YOUR DOCTOR: The Common Sense Guide to Medical Care—William H. Potter, M.D.—*Duell*, 288 p., \$5. Practising physician discusses choice of physician, "embarrassing" questions, hospitals, medical care plans and cults.

YOUNG PEOPLE OF EAST ASIA AND AUSTRALIA: Their Stories in Their Own Words—Charles R. Joy—*Duell*, 183 p., Maps, \$3.50. Simple family stories of young Asians and Australians.

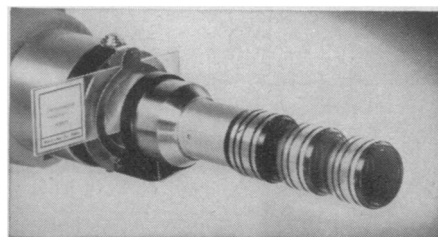
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