

Books of the Week

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ABC'S OF TELEVISION SERVICING—Howard W. Sams Engineering Staff—Sams, 96 p., illus., paper, \$1.95. Reference and guide for the beginner in TV servicing.

AERODYNAMICS: A Space-Age Survey—John E. Allen—Harper, 128 p., 13 plates, illus., \$2.95. Outlines for the layman the scope of aerodynamics and the physical characteristics of air that define common motions.

AGING AND THE ECONOMY—Harold L. Orbach and Clark Tibbitts, Eds., preface by Wilma Donahue—Univ. of Mich. Press, 237 p., \$7.50. Incorporates papers, addresses and panel discussions of University of Michigan's 1962 conference on aging.

THE CRAFT OF INTELLIGENCE—Allen Dulles—Harper, 277 p., 8 plates, \$4.95. Traces the history of espionage and summarizes the author's knowledge of intelligence.

DARWIN FOR TODAY: The Essence of His Works—Introd. by Stanley Edgar Hyman, Ed.—Viking, 435 p., \$7.50. One-volume selection from wide range of subjects on which Darwin published some 7,000 pages, highlight the personality, keen intelligence and important contributions of Darwin.

DICTIONARY OF ELECTRONICS COMMUNICATIONS TERMS—The Howard W. Sams Engineering Staff—Sams, 157 p., paper, \$3.95. Definitions of more than 2,500 terms, from "AB power pack" to "zone of silence."

A DICTIONARY OF ZOOLOGY—A. W. Leftwich—Van Nostrand, 290 p., \$6.00. Definitions of words used in zoology including all principal phyla and classes of animals.

EARNED DEGREES CONFERRED 1961-1962—Wayne E. Tolliver—OE (GPO), 235 p., paper, \$1.50. Analytical tables of degrees conferred, compiled according to type of institution and of field of study.

THE EARTH SCIENCES—Arthur N. Strahler—Harper, 681 p., photographs, diagrams, \$9.95. Authoritative modern text, essentially non-mathematical, dealing with the earth as a planet, the atmosphere and oceans, the solid earth, landscape and soil, and the subject of map projections.

THE EDUCATION OF AMERICAN TEACHERS—James Bryant Conant—McGraw, 275 p., \$5. A study of the education of teachers for U.S. elementary and secondary schools.

EGYPT: Yesterday and Today—Georgiana G. Stevens—Holt, 234 p., photographs, maps, \$3.95. An informative summary of life in the past and Egypt's modern institutions.

ESCAPE FROM THE AIR AND FROM THE SEA—Eloise Engle—Day, 256 p., photographs, \$4.95. Describes engineered escape systems for aircraft, spacecraft, and submarines.

THE FIRST BOOK OF SPACE TRAVEL—Jeanne Bendick—Watts, F., rev. ed., illus. by author, \$2.50. For boys and girls.

FLORA OF THE BRITISH ISLES, ILLUSTRATIONS, Part III: Boraginaceae-Compositae—A. R. Clapham, T. G. Tutin and E. F. Warburg—Cambridge Univ. Press, 115 p., drawings by Sybil J. Roles, \$6. Comprehensive series of drawings made from fresh specimens.

FUEL CELLS, Vol. 1—Will Mitchell Jr., Ed.—Academic Press, 442 p., illus., graphs, \$15.00. Gives a picture of research and engineering problems in current fuel cell technology.

GETTING STARTED IN ELECTRONICS—Allied Radio Corp.—Allied Radio, 111 p., illus., paper, 50¢. Written for the beginner, describes construction projects, from simple door-bell circuit to five-transistor radio.

HANDBOOK OF HIGH VACUUM ENGINEERING—H. A. Steinherz—Reinhold, 358 p., illus., \$11.75. Technical reference for design, construction, operation and maintenance of high vacuum systems.

HANDBOOK OF SPACE-RADIATION EFFECTS ON SOLAR-CELL POWER SYSTEMS—William C. Cooley and Robert J. Janda—NASA (OTS), 107 p., graphs, paper, \$2.50. Summarizes some analytical methods and test data which can be applied to design of radiation resistant power systems.

A HISTORY OF ASTRONOMY, Vol. 5 of The New Illustrated Library of Science and Invention—Charles-Albert Reichen—Hawthorn Bks., 112 p., designed by Erik Nitsche, \$5.95. Handsome volume, printed in Switzerland, shows the dramatic developments in man's knowledge of the universe from Babylonian stargazers to radioastronomy.

HISTORY, PSYCHOLOGY, AND SCIENCE: Selected Papers—Edwin G. Boring; Robert I. Watson and Donald T. Campbell, Eds.—Wiley, 372 p., \$8.95. Philosophical discussions about the development of science and specific scientific problems.

THE IDENTIFICATION OF MOLECULAR SPECTRA—R. W. B. Pearse and A. G. Gaydon—Wiley, 3rd ed., 347 p., 12 plates, \$18.50. This revised edition presents many more new data in more compact form.

THE INTELLIGENCE OF LOUIS AGASSIZ: A Specimen Book of Scientific Writings—Guy Davenport, Ed., foreword by Alfred S. Romer—Beacon Press, 237 p., illus., \$5. Fine examples of exact and clear descriptions of scientific observations.

INTERMODULATION AND HARMONIC DISTORTION HANDBOOK—Howard M. Tremaine—Sams, 160 p., illus., paper, \$3.95. Discusses theory of harmonic and intermodulation distortion generation, analyzer design and construction, and intermodulation measurements.

LIFE IN A MEXICAN VILLAGE: Tepoztlán Restudied—Oscar Lewis—Univ. of Ill. Press, 512 p., illus., drawings by Alberto Beltran, reprint of 1951 ed., \$2.95. Paperback issue of broad ethnographic and historical study of social, economic, political and religious life of the community, with particular emphasis on the changes since 1926.

LIGHTNING CODE 1963—Nat'l Fire Protection Assn., 58 p., illus., paper, 75¢ direct to publisher, 60 Batterymarch St., Boston 10, Mass. Discusses protection of ordinary buildings, smokestacks, aircraft and ships, and structures containing flammables.

LITTLE FOX: Alaskan Trapper—Hanns Radau, transl. from German by Dorothy Long—Abelard-Schuman, 158 p., illus. by Heiner Rothfuchs, \$3. Story about a fur trapper's life in Alaska.

LOUIS PASTEUR: Founder of Microbiology—Mary June Burton—Watts F., 197 p., illus., \$2.95. Juvenile biography.

LUMINESCENCE IN CRYSTALS—D. Curie, transl. from French by G. F. J. Garlick—Wiley, 332 p., diagrams, \$8.50. Treatment is mainly theoretical with extensive chapter on electroluminescence and cathodoluminescence processes.

THE MASAI: Herders of East Africa—Sonia Bleeker—Morrow, 155 p., illus. by Kisa N. Sasaki, \$2.75. Introduces boys and girls to life among the nomadic cattle-herding Masai people.

MASK, THE DOOR COUNTY COON—Earl Sherwan—Norton, 122 p., illus. by author, \$3. Story about a very smart coon.

MICROMAGNETICS—William Fuller Brown Jr.—Interscience, 143 p., \$5.95. Reviews the origins and underlying principles of the theory and presents them in a unified way.

MIRACLE MAN OF PRINTING: Ottmar Mergenthaler—I. E. Levine—Messner, 190 p., \$3.25. A biography of the man who invented the linotype machine.

MODERN CHEMICAL PROCESSES, Vol VII: A Series of Articles Describing Chemical Manufacturing Plants—Will H. Shearon, Jr., Ed.—Reinhold, 120 p., photographs, diagrams, \$7.50. Comprises the plant process articles published by Industrial and Engineering Chemistry during 1960 and 1961.

NATURE'S GUARDIANS: Your Career in Conservation—Harry Edward Neal—Messner, 191 p., 34 plates, \$3.95. A career guide describing the experiments, projects and activities of wildlife managers, foresters and conservationists.

NEBRASKA SYMPOSIUM ON MOTIVATION, 1963—Marshall R. Jones, Ed.—Univ. of Neb. Press, 202 p., illus., \$5.50; paper, \$2.50. Includes papers on dependency motivation, reinforcement, and central neural inhibition.

THE NEXT HUNDRED YEARS: A Discussion Prepared for Leaders of American Industry—Harrison Brown, James Bonner and John Weir—Viking, 193 p., graphs, \$1.45. Inquires into the limits ultimately bounding development of the industrial society, and the problems to be faced upon approaching such limits.

NIGHT VISIBILITY, 1962—Fred Burggraf and Herbert P. Orland, Eds.—Nat. Acad. of Sciences, 114 p., illus., paper, \$2.40. Reports and papers presented at the 41st annual meeting of the Highway Research Board, Jan. 8-12, 1962.

ORIGIN, PROGRAM, AND OPERATION OF THE U.S. NATIONAL HEALTH SURVEY—Anthony J. Celebrezze, U.S. Dept. of Health, Education, and Welfare—GPO, 41 p., paper, 35¢. Description of the developments leading to enactment of the National Health Survey Act, and a summary of the policies, initial program and operation of the Survey.

PATHFINDERS, U. S. A.: Your Career on Land, Sea and Air—Harry Edward Neal—Messner, 192 p., 40 plates, \$3.95. Describes career opportunities in meteorology, construction, civil aviation, Merchant Marine, and coastal surveying.

PLYWOOD WORKING FOR EVERYBODY—John Gerald Shea—Van Nostrand, 212 p., photographs, diagrams, \$7.95. Describes the properties of plywood, the workshop, the basic processes of working with plywood, finishing and covering, and projects for indoor and outdoor living.

POLITICS AND CONSERVATION: The Decline of the Alaska Salmon—Richard A. Cooley, foreword by Stanley A. Cain; introd. by Senator Ernest Gruening—Harper, 230 p., illus., \$5. Study covering 90 years of conservation efforts, presents an analysis of a case of failure of public agencies to regulate fish and wildlife in time.

PRINCIPLES AND PRACTICE OF RADAR—R. S. H. Boulding—Van Nostrand, 7th ed., 851 p., diagrams, \$15. Well established British textbook and reference manual revised to take into account the latest techniques used in radar.

PROBABILITY AND STATISTICS FOR EVERYMAN: How to Understand and Use the Laws of Chance—Irving Adler—Day, 256 p., diagrams by Ruth Adler, \$5.95. A popular guide to the fundamentals of the probability theory, pays special attention to the Bernoulli distribution, the normal and the Poisson distribution.

PROCEEDINGS OF THE EIGHTEENTH ANNUAL NORTHWEST WOOD PRODUCTS CLINIC, 1963, Spokane, Wash.—Charles E. Dehmer and Edward S. Kotok, Chmn.—Tech. Extension Serv., Wash. State Univ., 141 p., illus., paper, \$5. Discussion of products research, marketing, management and operational improvements in the industry.

A PROGRAMMED INTRODUCTION TO THE GAME OF CHESS—M. W. Sullivan—McGraw, 212 p., illus., \$6.95. A tested, programmed course, guiding the beginner step by step from simple details to advanced problems.

PROGRESS IN DIELECTRICS, Vol. 5—J. B. Birks and J. Hart, Eds.—Academic Press, 368 p., illus., \$13. About electrolytic capacitors, square loop ferrites, and the dispersion and fluctuations in dielectrics.

PSYCHOLOGY IN THE WRY—Robert A. Baker, Ed.—Van Nostrand, 170 p., paper, \$1.75. Scholar's essays flavored with satire.

THE QUANTUM THEORY OF FIELDS—R. Stoops, Ed.—Interscience, 261 p., \$8. Proceedings of the Twelfth Conference on Physics, Univ. of Brussels, 1961, includes reports and discussions by Bohr, Feynman, Gell-Mann, Dirac and Wigner.

RESEARCH IN PSYCHOPATHOLOGY—Selected Readings—Herbert C. Quay, Ed.—Van Nostrand, 216 p., paper, \$1.95. Papers on research and experimentation of current significance in the study of abnormal behavior.

THE SEARCH FOR EXTRATERRESTRIAL LIFE—NASA—GPO, 20 p., illus., paper, 20¢. Explains the devices and techniques to be used in exploring for evidence of life on other planets. (See p. 227)

SUPERVISION FOR QUALITY EDUCATION IN SCIENCE: Report of a Conference arranged by the Specialists for Secondary Science, June 25-29, 1962—Uhlman S. Alexander—OE (GPO), 172 p., paper, 65¢.

WANTED: AMATEUR SCIENTISTS—Robert Froman, preface by Alan T. Waterman—McKay, 102 p., photographs, \$3.25. Shows how the serious amateur can contribute to many fields of science.

• Science News Letter, 84:236 Oct. 12, 1963

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