

# books OF THE WEEK

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**THE CIRCLE OF FIRE:** The Great Chain of Volcanoes and Earth Faults—Carl Heintze—Meredit Press, 1968, 161 p., photographs, diagrams, maps, \$3.95. Tells the story of the most active seismic region of the world, the volcanoes and earthquakes of the Pacific.

**THE CRIME OF PUNISHMENT**—Karl Menninger—Viking Press, 1968, 305 p., \$8.95. Psychiatrist analyzes the general ignorance of what constitutes crime, and the inadequacy of the penal system in dealing with individuals that get caught; he shows why the system fails to protect society and offers some rational proposals for improving the system.

**EUGENICS AND THE PROGRESSIVES**—Donald K. Pickens—Vanderbilt Univ. Press, 1968, 260 p., \$7.95. Examines the rise and fall of the eugenicists, especially during the first three decades of this century, and views from the historical perspective the response of the progressives to the advances in genetics and other developments that destroyed the naturalism which created Galtonian eugenics.

**EXPERIENCE AND BEHAVIOUR**—Peter McKellar—Penguin Bks., 1968, 423 p., diagrams, paper, \$1.75. A survey of the state of psychology today, addressed to the general reader.

**EXPLORING SPACE WITH A CAMERA**—Edgar M. Cortright, Ed.—NASA (GPO), 1968, 214 p., photographs, many in color, \$4.25. Handsome volume, discusses atmosphere, clouds and air disturbances, moon views from orbit, moon maps, views of Mars, and detailed description of the most outstanding photographs of earth from space. Selection of unique photographs should make this record of U.S. space exploration a welcome gift book.

**GALAPAGOS: ISLAND OF BIRDS**—Bryan Neelson, foreword by The Duke of Edinburgh—Morrow, 1968, 338 p., 57 photographs by author, 60 drawings by John Busby and author, map, \$7.95. Combines readability and scientifically accurate nature study in a series of seabird portraits based on close observation of behavior and ecology during a year spent on two uninhabited islands.

**THE GEOLOGY OF NEW YORK CITY AND ENVIRONS**—Christopher J. Schubert—Natural Hist. Press, 1968, 304 p., illus., maps, \$6.95. An illustrated guide to the geologic evolution of the metropolitan area, including detailed itineraries of regional field trips.

**THE GOLDEN WEB:** A History of Broadcasting in the United States, Vol. II: 1933 to 1953—Erik Barnouw—Oxford Univ. Press, 1968, 391 p., photographs, \$9. In this continuing definitive history of American broadcasting, the author deals with the expansion period of the giant country-wide networks and the personalities connected with them.

**GROWTH OF THE NERVOUS SYSTEM**—G. E. W. Wolstenholme and Maeve O'Connor, Eds.—Little, Brown, 1968, 295 p., micrographs, diagrams, \$12. Proceedings of the 1967 Ciba Foundation Symposium, dealing with development of movement, biological aspects of NGF, and trophic interaction, peripheral and central.

**INFRARED ASTRONOMY**—Peter J. Branczoi and A. G. W. Cameron, Eds.—Gordon & Breach, 1968, 248 p., diagrams, \$15. Conference papers presenting reports on interstellar extinction in the infrared, spectra of cool stars, protostars, emission of line objects and other related topics.

**AN INTRODUCTION TO THE PHILOSOPHY OF SCIENCE**—D. W. Theobald—Methuen (Barnes & Noble), 1968, 145 p., \$5; paper, \$1.75. Presents science as an evolving language-system, developing a thesis that allows the reader to see how he can progress from experience to knowledge.

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**LANDFORMS OF AUSTRALIA**—Vincent Servery—Am. Elsevier Pub. Co., 1968, 132 p., 200 photographs, mostly by author, \$7.50. Shows texture, form and colors of the varied Australian landscape, and tells in captions and short essays something of the geological history of the continent.

**LIGHT AND SOUND FOR ENGINEERS**—R. C. Stanley—Hart Pub. Co., 1968, 344 p., diagrams, \$12. Treatment assumes a minimal knowledge of physics, theoretical derivations are given fully, and practical applications discussed are those of special interest to engineers.

**LIGHT, COLOUR AND VISION**—Yves Le Grand, transl. from French by R.W.G. Hunt and others—Chapman & Hall (Barnes & Noble), 1968, 2nd ed., 564 p., diagrams, \$11.25. Written from a physicist's point of view, presents the reaction of the retina when its light-sensitive cells absorb light of various wave-lengths, the relays through which the nerve message reaches the visual centers of the brain and gives rise to a sensation of light and color.

**MAYO:** The Story of My Family and My Career—Charles W. Mayo—Doubleday, 1968, 351 p., 35 photographs, \$6.95. Reminiscences of a dedicated physician and his family.

**MEDICAL WORLD ANNUAL 1968**—Editors of Medical World News—McGraw-Hill, 1968, 213 p., photographs, \$9.95; paper, \$6.95. Reviews the experimental and clinical progress in general, personalities in the headlines, reviews medicine abroad, and advances in the various specialties, from allergy to urology.

**MIND DRUGS**—Margaret O. Hyde, Ed.—McGraw-Hill, 1968, 150 p., \$4.50. A candid and factual discussion of the subject, addressing the layman, including young people.

**NATIONAL PHYSICAL LABORATORY:** Report for the Year 1967—Ministry of Technology—HMSO (Brit. Inform. Services), 1968, 274 p., 18 plates, diagrams, paper, \$4.50. Contains reports on the research in progress at the various divisions of the British counterpart of NBS.

**THE NATURE OF SCIENCE AND SCIENCE TEACHING**—James T. Robinson—Wadsworth Pub. Co., 1968, 149 p., diagrams, \$4.95. A study of the relationships between the growth of scientific knowledge and the problems this poses for science education, examined through the writings of a number of working scientists who have given thought to the matter.

**THE NEW UNIVERSE**—Sir Bernard Lovell and others, introd. by H. A. Bruck—Rand McNally, 1968, 127 p., photographs, diagrams, \$8.95. A review of current advances in astronomical insights into the mechanism of our galaxy, radio galaxies, quasi-stellar objects, neutrino astronomy, and the gravitational theory and density of matter in the universe.

**99 WAYS TO USE YOUR OSCILLOSCOPE**—Albert C. W. Saunders—Tab. Bks., 1968, 191 p., illus., \$6.95; paper, \$4.95. A pictured-text guide to service applications of the oscilloscope.

**OBSERVATION IN MODERN ASTRONOMY**—David S. Evans—Am. Elsevier Pub. Co., 1968, 273 p., plates, diagrams, \$14. The author, spectroscopist and one of the leading contributors to fundamental knowledge of the southern skies, deals with the wide variety of observational methods in astronomy, and shows the potentialities and limitations of the methods by which modern astronomical information is acquired.

**ON HUMAN COMMUNICATION:** A Review, a Survey and a Criticism—Colin Cherry—M.I.T. Press, 1968, 2nd ed., 337 p., illus., paper, \$2.95. Updated edition (1957) of survey of the newly evolved combined field of cybernetics information theory, with extended bibliography.

**OUR CHILDREN'S BURDEN:** Studies of Desegregation in Nine American Communities—Raymond W. Mack, Ed.—Vintage Bks. 1968, 473 p., \$2.45. Summary of field reports, with analysis and conclusions concerning general trends in the process of education desegregation.

**THE PEOPLE MACHINE:** The Influence of Television on American Politics—Robert MacNeil—Harper, 1968, 362 p., \$7.95. Gives insight into the role of television in the complex process that helps transform political candidates into elected officials.

# WRITERS

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**PETER KAPITSA ON LIFE AND SCIENCE:** Addresses and Essays Collected, Translated and Annotated with Introduction—Albert Parry—Macmillan, 1968, 271 p., illus., \$1.50. These non-technical speeches and writings of the Russian nuclear physicist include his reminiscences about Rutherford at Cambridge and his thoughts on the organization of scientific work.

**PHYSICS LITERATURE:** A Reference Manual—Robert H. Whitford—Scarecrow Press, 1968, 2nd ed., 272 p., \$8.50. Updated survey of physics literature at college level, arranged under the headings: biographical, historical, experimental, mathematical, terminological and topical.

**THE POLITICS OF SCIENCE:** Readings in Science, Technology and Government—William R. Nelson, Ed.—Oxford Univ. Press, 1968, 495 p., paper, \$3.95. Group of essays assessing the roles of science and scientists in modern American society.

**PROCEEDINGS OF THE HEIDELBERG INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES**—H. Filthuth, Ed.—Interscience, 1968, 551 p., diagrams, \$27.50. Sessions deal with fundamental theoretical questions, meson and baryon resonances, quarks and symmetries, weak and electromagnetic interactions, CP violation, and strong interaction theory.

**STANDARD HANDBOOK OF LUBRICATION ENGINEERING**—James J. O'Connor, Ed., with John Boyd and Eugene A. Avallone—McGraw-Hill, 1968, 1,058 p., 784 illus., \$27.50. Brings together for reference the experience and recommendations of 65 lubrication specialists, covers the entire field of friction and wear, and prescribes the best means for overcoming them.

**THE STORY OF MEDICINE**—Roberto Margotta, transl. from Italian; Paul Lewis, Ed.—Golden Press, 1968, 319 p., 320 illus., mostly in color, \$17.95. Gives an overview of developments in medicine, from primitive man's magic to the Cape Town heart transplant; features many historical illustrations.

**THIS IS COMMUNIST CHINA**—Staff of Yomiuri Shimbun, Tokyo; Robert Trumbull, Ed.—McKay, 1968, 274 p., photographs, \$5.95. Edited by chief of the Tokyo bureau of the New York Times, the book attempts to give an objective report on contemporary mainland China as seen through the dispatches of Japanese journalists reporting from within China since 1964.

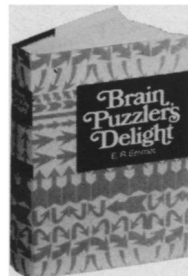
**TREES FOR ARCHITECTURE AND THE LANDSCAPE**—Robert L. Zion—Reinhold, 1968, 284 p., 12 color plates, photographs by Maude Dorr and others, drawings, \$25. Shows winter and summer portraits of trees, discusses the practical considerations of location and planting, design use of individual trees, and includes state tree lists.

**TRENDS AND VARIATIONS IN FERTILITY IN THE UNITED STATES**—Clyde V. Kiser, Wilson H. Grabill and Arthur A. Campbell—Harvard Univ. Press, 1968, 338 p., \$6.95. A vital statistics monograph, analyzes patterns of American fertility, discusses the medical and biological aspects of fertility, the prevalence and effectiveness of family planning, and the relation between fertility and economic trends.

**VOYAGE TO THE PLANETS**—Glenn T. Seaborg and others—AAS Pubns. Office, 1968, 173 p., illus., \$11.25. Vol. 16 of Science and Technology Series, covers the Mariner and Voyager programs, proposed probes to distant planets and manned planetary exploration.

**WITCHES AND THEIR CRAFT**—Ronald Seth—Taplinger, 1968, 255 p., plates, drawings, \$4.50. Brings together a great many accounts of witchcraft and necromancy from the world's literature.

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