

Books of the Week

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ADVENTURES IN SPACE AND TIME: The Story of Relativity—Herbert Kondo—Holiday House, 93 p., illus. by George Solonevich. \$2.95. Clear explanation of motion, speed time, bending light and the laws of special and general relativity, for young people.

AMERICAN HANDBOOK OF PSYCHIATRY, Vol. 3—Silvano Arieti, Ed.—Basic Bks., 778 p., \$20. Brings together advances since 1959 in many branches of psychiatry, most notably in biochemical psychiatry, community psychiatry and conceptual psychiatry.

AN ANNOTATED BIBLIOGRAPHY OF MEXICAN FERNS—George Neville Jones—Univ. of Ill. Press, 297 p., \$5. Mexico has an estimated number of about 700 species of ferns in about 80 genera, as compared to only 335 listed species in 58 genera in all North America north of Mexico.

THE APPLE AND THE SPECTROSCOPE: Lectures on Poetry designed (in the main) for Science Students—T. R. Henn, foreword by Roy Lamson—Norton, 166 p., plates, \$4.50. The lectures in this book are a series of demonstrations in analysis and criticism, in which criticism is considered an art rather than a science.

THE BIRDS OF TIKAL—Frank B. Smithe—Natural Hist. Press, 350 p., color plates, drawings, folded maps, \$7.50. A comprehensive study and field guide to the birds of the Peten in Guatemala, the region where the ruins of the Mayan temples and pyramids are being recovered from the jungle. Offers field identification to some 280 species of birds observed in the lowlands of Central America.

CHALLENGE TO SCIENCE: The UFO Enigma—Jacques and Janine Vallee, foreword by J. Allen Hynek—Regnery, 268 p., plates, diagrams, \$5.95. Presents evidence for the global nature of the UFO phenomenon, discusses the possible scientific approaches and technological problems of investigation, and presents catalogue of data and classification system.

COLLEGE PEER GROUPS: Problems and Prospects for Research—Theodore M. Newcomb and Everett K. Wilson, Eds.—Aldine Pub. Co., 303 p., \$8.95. This National Opinion Research Center monograph deals with the influence students have upon one another in contemporary American colleges and universities.

THE COMPACT GUIDE TO PARLIAMENTARY PROCEDURE—Harvey Cromwell—Hawthorn Bks., 87 p., paper, \$3.95. Provides in tabulated form the basic principles and rules of parliamentary procedure needed to conduct efficient business sessions.

CRIME, LAW AND SOCIETY—Frank E. Hartung—Wayne State Univ. Press, 320 p., \$9.75. Deals with two much debated issues on the fields of law, psychiatry, sociology and correction, namely, causation and criminal responsibility. The author explains in terms of normality many of the offenses widely held to be pathological.

THE DISABLED READER: Education of the Dyslexic Child—John Money, Ed.—Johns Hopkins Press, 421 p., illus., \$8.50. Papers by specialists on the many aspects and origins of reading disability, suggesting teaching methods and specific tools to aid corrective-reading teachers and speech therapists in dealing with the problem.

ELECTRON RADIATION DAMAGE IN SEMICONDUCTORS AND METALS—James W. Corbett—Academic Press, 410 p., diagrams, \$16.50. This is Supplement 7 to SOLID STATE PHYSICS, presents a critical review of damage produced by all types of radiation in elemental semiconductors, compound semiconductors and in pure metals and alloys.

EXPERIMENTAL PRIMARY MYOPATHIES AND THEIR RELATIONSHIP TO HUMAN MUSCLE DISEASES—E. Bajusz, Ed.—N.Y. Acad. of Sciences, Vol. 138, Art. 1, 366 p., illus., paper, \$10. Monograph deals with hereditary and experimentally induced primary myopathies in laboratory animals, and recent progress in studies of human muscular dystrophy.

FIREFLIES—Bernice Kohn—Prentice-Hall, 58 p., illus. by Erwin Schachner, \$3.50. Affords children a close look at the firefly and tells of the science and legends connected with its luminescence.

FROM EARTH TO HEAVEN—Isaac Asimov—Doubleday, 208 p., \$4.50. Seventeen essays on science, ranging from a discourse on the points of the compass to thoughts on the size of the universe.

FUTURE ENVIRONMENTS OF NORTH AMERICA—F. Fraser Darling and John P. Milton, Eds.—Natural Hist. Press, 767 p., \$12.50. Papers and discussions of a Conference convened by The Conservation Foundation in 1965, when more than 40 scholars of many disciplines considered the implications of the increasingly dominant influence of man upon his environment.

GEOLOGY OF THE STATE OF HAWAII—Harold T. Stearns—Pacific Bks., 266 p., photographs, diagrams, maps, \$8.50. A copiously illustrated, comprehensive treatment of the geology of the Hawaiian Islands, written for both professional geologists and laymen interested in volcanoes and the geologically spectacular chain of basaltic domes that began rising from a fissure in the ocean floor some 25,000,000 years ago.

HAMMOND CITATION WORLD ATLAS—Hammond, 352 p., maps, \$7.95. Presents each continent, country, state or province in a complete unit on consecutive pages, including index, and offers a great deal of specific information in easily accessible form.

HAMMOND INTERNATIONAL WORLD ATLAS—Hammond, 192 p., maps, \$4.95. This is the smallest of the three new perspective atlases, with the same integrated geographical unit features, index on each page, useful for quick look-ups.

HANDBOOK OF CHEMISTRY AND PHYSICS: A Ready-Reference Book of Chemical and Physical Data—Robert C. Weast and Samuel M. Selby, Eds.—Chemical Rubber Co., 47th ed., 1,860 p., \$17.50. Sourcebook of tabulated facts, revised to include recent data on gravimetric factors, classification of elementary particles, electron affinities, dimensionless groups and other new material.

THE HUNGER TO COME—John Laffin—Abelard-Schuman, 208 p., photographs, \$4.95. Tells of the two-thirds of humanity that lives in areas of backward agriculture, and discusses world water shortage, salinity, irrigation, pests and animal diseases and some of the efforts made to avert disaster.

IN AID OF SURGERY—Tony Osman—Roy Pubs., 63 p., 16 plates, drawings, \$3.25. A short account of some of the ways in which scientific advances have made surgical operations safer, easier, and in some cases, possible.

INSTRUMENTS OF COMMUNICATION: An Essay on Scientific Writing—Patrick Meredith—Pergamon Press, 645 p., diagrams, \$21.50. Presents both a theoretical and pragmatic approach to the communication and activation of scientific ideas, treating words as scientific instruments subject to psycho-physical analysis.

INTELLIGENCE, PERSPECTIVES 1965: The Terman-Otis Memorial Lectures—Orville G. Brim Jr., Richard S. Crutchfield and Wayne H. Holtzman—Harcourt, 101 p., \$3.75. Research-based discussions of creativity, self-estimate and cognitive style.

THE LAND AND PEOPLE OF THE GUIANAS—Alan Mark Fletcher—Lippincott, 149 p., photographs by author, map, \$3.25. A portrait of Guyana, Surinam and French Guiana.

THE LAND AND PEOPLE OF KOREA—S. E. Solberg—Lippincott, 152 p., photographs, map, \$3.25. Portrait of a nation.

LOVEJOY'S COLLEGE GUIDE—Clarence E. Lovejoy—Simon & Schuster, 8th ed., p., paper, \$3.95. Complete reference book to 2,834 U.S. colleges and universities, with ratings and general guidance to students.

FREE CATALOGUES OF SCIENCE BOOKS

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MAN'S PLACE IN THE DYBOSPHERE—Richard R. Landers, preface by Willy Ley—Prentice-Hall, 266 p., diagrams, \$5.95. About the world in which life sciences join with engineering and mathematics to create things that behave in a lifelike fashion.

MARSH'S DINOSAURS: The Collection from Como Bluff—John H. Ostrom and John S. McIntosh—Yale Univ. Press, 388 p., 150 lithographs, \$15. Historical sketch of the paleontological excavations in Wyoming and reproductions of the Peabody Museum's collection of fossil bones with descriptive data.

NATIONAL ZIP CODE DIRECTORY, 1966—Post Office Department—GPO, 1772 p., paper, \$7. Updates the information issued June 1965, designed to give the ZIP Code for each mailing address within the United States.

THE NATURAL HISTORY OF PALMS—E. J. H. Corner—Univ. of Calif. Press, 393 p., 24 plates, drawings, \$12.95. An authoritative and highly readable treatment of palm history, geography, evolution, structure and classification.

PLANT DETECTIVE: David Douglas—Bob and Jan Young—Messner, 189 p., \$3.25. Juvenile biography.

THE POLITICS OF CONSERVATION—Frank E. Smith—Pantheon Bks., 338 p., \$5.95. An authoritative survey of the growth of the conservationist philosophy of the United States and a record of the rather haphazard political action in the field.

THE POORHOUSE STATE: The American Way of Life on Public Assistance—Richard M. Elman—Pantheon Bks., 305 p., \$5.95. Based on interviews, the author portrays the lives of

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books cont.

Americans on New York's Lower East Side in this examination of nationwide attitudes and policies toward recipients of public assistance.

PROTECTING OUR FOOD: The Yearbook of Agriculture 1966—Jack Hayes, Ed.—USDA (GPO), 386 p., illus., \$2.50. This year's yearbook explains the scientific and technical achievements that have helped solve problems of foodstuff handling and protection against pests and spoilage, as well as general quality control.

RECENT DEVELOPMENTS IN PARTICLE SYMMETRIES: 1965 International School of Physics "Ettore Majorana," a CERN-MPI-NATO Advanced Study Institute—A. Zichichi—Academic Press, 460 p., diagrams \$10.50. Discusses such theoretical problems as CP non-invariance, relativistic formulation of unitary symmetry, SU₂, as well as associated experimental problems.

THE RISE AND FALL OF MAYA CIVILIZATION—J. Eric S. Thompson—Univ. of Okla. Press, 2nd ed., 328 p., 32 plates, drawings, \$5.95. Enlarged edition incorporates some of the more recent additions to our knowledge of the Mayas based on findings of the last decade.

RIVER POLLUTION, III: Control—Louis Klein—Butterworth, 484 p., \$20. Expanded and updated (Aspects of River Pollution, 1956), this volume deals with the detection and measurement of river pollution, pollution of tidal and coastal waters, sewage disposal and treatment of industrial wastes, standards for rivers, sewage and industrial effluents.

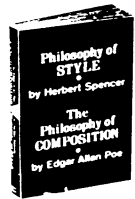
ROAD GUIDE TO POINTS OF GEOLOGIC INTEREST in the Hawaiian Islands—Harold T. Stearns—Pacific Bks., 66 p., photographs, maps, paper, \$1.50. Illustrated guide describes and explains geological features to be seen on tours of Oahu, Hawaii, Maui, Kauai and Molokai.

THE SCANDINAVIANS—Donald S. Connery—Simon & Schuster, 590 p., map, \$7.95. Based on on-the-scene research, this well organized and readable book gives insight into the contemporary cultural, social and political life of the people of Sweden, Denmark, Norway, Finland and Iceland.

SCIENCE IN THE TWENTIETH CENTURY—Rene Taton, Ed., transl. from French by A. J. Pomerans—Basic Bks., 638 p., 114 plates, diagrams, \$17.50. This fourth volume of the HISTORY OF SCIENCE concludes the comprehensive survey of the entire development of science. In this volume 50 specialists, themselves participants in 20th century science, deal with the advances in the various fields of science.

SIX FACES OF MEXICO: History, People, Geography, Government, Economy, Literature & Art—Russell C. Ewing, Ed.—Univ. of Ariz. Press, 320 p., photographs, maps, \$10. A composite portrait of the northernmost Latin American nation.

THE UNIFICATION OF THE WORLD: Proposals of a Diplomatist—Paul de Hevesy—Pergamon Press, 356 p., tables, \$10. Comparing and documenting the economic interdependence of the world, the book puts forward proposals that may lead to a gradual unification of the world.



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Films of The Week

Listing for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor listed.

DIAMONDS UNDER THE SEA. 16mm, color, sound, 24½ min. Describes the process of searching for diamonds under the ocean, including comparison of undersea with land geology, geophysical work and drilling, ending in finding of diamonds. Audience: general. Purchase color for \$270, b&w for \$135 from Coronet Films, Coronet Building, Chicago, Ill. 60601.

PLOWSHARE. 16mm, color, sound, 28 min. Explores possible applications of nuclear explosives for mining, earth-moving, and scientific investigation. Audience: general. Free loan from AEC Idaho Operations Office, Film Library, P.O. Box 2108, Idaho Falls, Idaho 83401.

SAFETY IN THE PLOWSHORE PROGRAM. 16mm, color, sound, 22 min. Discusses the effects of underground explosions—heat, explosive force and radiation—and relates these effects to public safety and to potential applications of nuclear explosives. Audience: general. Free loan from AEC Idaho Operations Office Film Library, P. O. Box 2108, Idaho Falls, Idaho 83401.

PSYCHOLOGY OF THE PERSONALITY. A series of seven films, each 16mm, b&w, sound, 50 min. Interviews by Dr. Richard I. Evans, University of Houston, with seven of the world's psychologists: Drs. Gordon Allport, Raymond Cattell, Erik Erikson, Erich Fromm, Gardner Murphy, Henry Murray, and B. F. Skinner. Audience: psychologists and students of psychology. Sale and rental information from Association Instructional Materials, 600 Madison Ave., New York, N.Y. 10022.

BUILD ME A MOUNTAIN. 16mm, color, sound, 14 min. Review of the Newtonian theory of ballistic and orbital flights, and how the principal is applied in manned and unmanned spacecraft exploration. Audience: technical. Loan information from TRW Systems, 1 Space Park, Redondo Beach, Cal. 90278.

CONSERVING OUR MINERAL RESOURCES TODAY. 16mm, color, sound, 11 min. Shows why renewable sources of power and energy must be developed to replace our decreasing mineral resources. Audience: grades 4-9 science. Purchase \$120 color, \$60 b&w from Coronet Films, 65 E. South Water St., Chicago, Ill. 60601.

THE THINKING MACHINE. 16mm, b&w, sound, 54 min. Discussion of the similarities and differences between human reasoning and the "reasoning" of computers. Audience: general. Purchase for \$250 from Carousel Films, 1501 Broadway, New York, N.Y. 10036. (Produced by CBS-TV).

SPRAY OILS FOR CONTROLLED ORCHARD PESTS. 16mm, color, sound, 28 min. Explains when and how spray oils are applied, insects that can be controlled, and advantages and characteristics of spray oils. Audience: orchard owners. Free loan information from Humble Oil and Refining Company, Public Relations, P. O. Box 2180, Houston 1, Tex.

STRUCTURAL FABRIC—TIME SAVER FOR BUILDERS. 16mm, color, sound, 24 min. Cases histories on how construction time and money were saved by use of welded wire fabric. Audience: construction firm personnel, others interested in building construction. Free loan from Wire Reinforcement Institute, 5034 Wisconsin Ave., N.W., Washington, D. C. 20016.

HIDE AND SEEK. 16mm, color, sound, 14 min. A young addict relives his initiation to drugs, his subsequent alienation from friends and family, his inability to break the habit, and the consequences he suffers. Audience: high school students. Purchase and rental information from Center for Mass Communication, 1125 Amsterdam Ave., New York, N.Y. 10025.

THE MECHANISMS OF ACTION OF ORAL CONTRACEPTIVES. 16mm, color, sound, 21 min. Presents the similarities and dissimilarities of both the combination and sequential birth control pills. Audience: physicians and medical groups. Loan information for physicians and medical groups from Professional Services, Syntex Laboratories Inc., 3401 Hillview Ave., Palo Alto, Calif. 94304.

INVESTMENT IN LIFE. 16mm, color, sound, 28 min. Answers the commonly asked question, "Are we getting anywhere in cancer research?" Audience: adults, high school, college. Free loan from local American Cancer Society. Listed in telephone directory.

KEVIN IS FOUR. 16 mm, color, sound, 26½ min. The early development of a child amputee. Audience: general practitioners, physical and occupational therapists, and parents of amputee children. Purchase or loan information from Ohio State University, Department of Photography, Motion Picture Division, 1885 Neil Ave., Columbus, Ohio.

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