

# books OF THE WEEK

**AMERICANS IN SPACE:** A History of Manned Space Travel—Ross R. Olney—Nelson, Th., 1971, rev. ed., 188 p., photographs, tables, glossary, \$5.95. Updated short review of the Gemini and Apollo flights, with useful quick-reference appendices.

**AUSTRALIAN NATIVE ORCHIDS IN COLOUR**—Leo Cady and E. R. Rotherham—Tuttle, 1971, 112 p., 100 color plates, \$6.75. Identification guide, covers the majority of the more common Australian orchids. Australia has more than 600 native orchids, classified into some 70 genera or related groups.

**COMMUNICATION AND DRUG ABUSE:** Proceedings of the Second Rutgers Symposium on Drug Abuse—J. R. Wittenborn, Jean Paul Smith and Sarah A. Wittenborn, Eds.—Thomas, C. C., 1971, 542 p., illus., \$23.25. Symposium papers examine the drug problem in terms of present limitations and possibilities of better understanding, sources of information, current programs and drug legislation.

**THE CONTEXTS OF SOCIAL MOBILITY:** Ideology and Theory—Anselm L. Strauss—Aldine Pub. Co., 1970, 263 p., \$8.50. A sociological study of the nature and extent of movement of individuals and groups from one status to another in American society.

**COOPERATION BETWEEN TYPES OF LIBRARIES, 1940-1968:** An Annotated Bibliography—Ralph H. Stenstrom—Am. Lib. Assn., 1970, 159 p., paper, \$4. Reference tool, identifies and abstracts articles and monographs concerned with interlibrary cooperation.

**EIGHTEENTH - CENTURY CERAMICS FROM FORT MICHILIMACKINAC:** A Study in Historical Archeology—J. Jefferson Miller II and Lyle M. Stone—Smithsonian Inst. Press (GPO), 1970, 130 p., photographs, maps, \$3.25. A report on archeological samples of European and Oriental ceramics excavated from sites in the New World.

**EVALUATING THE SAFETY OF FOOD CHEMICALS**—NRC Food Protection Committee and Subcommittee on Toxicology—Nat. Acad. of Sciences, 1970, 55 p., paper, \$2.50. An evaluation of recently proposed or adopted procedures, as well as conventional methods, for appraising the safety of food chemicals.

**FIFTY YEARS WITH SCIENCE**—J. G. Crowther—Humanities Press, 1970, 348 p., \$10.50. Associated with the world of European science for the past 50 years, the author recounts the developments in research, scientific publishing and journalism, administrative changes, international science, and other social and political aspects of science.

**FLIES AND DISEASE, Vol. I: Ecology, Classification and Biotic Associations**—Bernard Greenberg—Princeton Univ. Press, 1971, 856 p., color plates, drawings, \$30. First of a two-volume reference, treats the synanthropy and the bionomics of flies, contains keys to adult flies and to larvae, and presents systematic lists of flies associated with other organisms, and of fly species and their organism-fly associations.

**FORECASTING THE WEATHER**—Louis D. Rubin with Hiram J. Herbert—Watts, F., 1970, 64 p., photographs in color, illus., map, \$4.95. A hobby book on weather forecasting mainly based on the author's distinctive collection of cloud photographs, with captions, charts and simple explanatory text. Tells how to build your own weather station.

**GEOMETRICAL OPTICS**—Hans-Georg Zimmer, transl. from German—Springer-Verlag, N.Y., 1970, 171 p., diagrams, \$9.40. Gives a short introduction to the theoretical and practical problems of geometrical optics, develops the subject from the principle of conservation of radiated energy rather than from the usual basis of the geometrical concept of rays.

**THE GROWING TREE**—B. F. Wilson—Univ. of Mass. Press, 1970, 152 p., drawings, \$6.50. Intended for people who care about trees, from common tree owner to professional student, focuses on structure and form, the basic processes of growth and regulation, and the interaction of various parts in their competition for photosynthetic products.

**LATE EFFECTS OF RADIATION:** Proceedings of the Colloquium. University of Chicago, 1969—R. J. M. Fry and others, Eds.—Van Nostrand-Reinhold, 1971, 298 p., diagrams, paper, \$10.95. Reviews the late and subtle effects of radiation exposure on man and animals, and considers the possibility of models based on these data to help predict the effects of environmental pollutants.

**LIVING AND FOSSIL BRACHIOPODS**—M. J. S. Rudwick—Hillary House, 1970, 199 p., illus., \$6; paper, \$2.50. Chapters include general features, shell and mantle, muscles and hinges, relation to substrate, reproduction and ecology, history of the phylum and aspects of evolution.

**MANAGEMENT OF LAKES AND PONDS**—George W. Bennett—Van Nostrand-Reinhold, 1971, 2nd ed., 375 p., illus., \$15.95. Expanded reference source for ecologists, pond owners and fishery biologists; major emphasis is on warm-water fishes includes summary discussion of aquatic pollutants.

**PERSPECTIVES ON SECONDARY MATHEMATICS EDUCATION**—Jerry A. McIntosh, Ed.—Prentice-Hall, 1971, 259 p., diagrams, paper, \$4.95. Readings deal with the evolution of mathematics education, with methods, curriculum and research. Designed primarily for teachers of secondary mathematics.

**PHYSICS: DEMONSTRATION EXPERIMENTS, Vol. I: Mechanics and Wave Motion, Vol. II: Heat, Electricity and Magnetism, Optics, Atomic and Nuclear Physics**—Harry F. Meiners, Ed.—Ronald Press, 1970, 1,394 p., photographs, diagrams, \$30. Sponsored by the American Association of Physics Teachers, the two volumes present more than 1,000 experiments selected from worldwide sources, from high school through graduate level.

**PHYSIOLOGICAL AND BEHAVIORAL TEMPERATURE REGULATION**—James D. Hardy, A. Pharo Gage and Jan A. J. Stolk, Eds.—Thomas, C. C., 1971, 944 p., illus., \$75. Latest assessment of research on both the physiological and behavioral reactions of thermal stress in man and animals. Contributions by world authorities in physiology, medicine, engineering, psychology and meteorology, cover heat transfer, passive system, controlling systems, and closed loop system.

**PSYCHOPHYSICAL ANALYSIS OF VISUAL SPACE**—John C. Baird—Pergamon Press, 1970, 321 p., diagrams, \$10.50. Monograph provides the reader with a detailed review of experiments, together with new transformations of previous results, in the fields of psychophysics, space perception and physiological optics.

**RELATIVITY AND THE QUESTION OF DISCRETIZATION IN ASTRONOMY**—Dominic G. B. Edelen and Albert G. Wilson—Springer Verlag, N.Y., 1970, 186 p., diagrams, \$10.50. Develops a theory of equilibrium structure which indicates the possibility that sizes of cosmic bodies are discrete (separate and distinct); provides experimental data and observational evidence confirming the theory that elliptical galaxies occur in definite sizes and shapes.

**RELIABLE ELECTRONIC ASSEMBLY PRODUCTION**—C. E. Jowett—TAB Bks., 1971, 291 p., photographs, diagrams, \$12.95. Provides information on materials and methods employed in the production of reliable assemblies.

**SIGNALS FOR SURVIVAL**—Niko Tinbergen and Hugh Falkus—Oxford Univ. Press, 1971, 80 p., photographs by N. Tinbergen, illus. by Eric Ennion, \$8. Modern animal study, describes in simple, but scientifically accurate, terms the sign language of a common seabird, the Lesser Blackbacked Gull, with the help of action photographs and water color sketches.

**THE SOURCES OF INVENTION**—John Jewkes, David Sawers and Richard Stillerman—Norton, 1971, 2nd ed., 372 p., photographs, paper, \$2.75. A study of the causes and consequences of industrial innovation through the inventions of the 19th and 20th centuries.

**THE WAYS OF THE DESERT**—Gen. E. Daumas, commentaries by The Emir Abd-el-Kader, transl. from French by Sheila M. Ohlen-dorf, foreword by Robert A. Fernea—Univ. of Texas Press, 1971, 193 p., illus., glossary, \$6.75. About the life of the horsemen of the Sahara, with ethnographical accounts on the North African nomads' way of life one hundred year ago.

**WIDENING HORIZONS: Man's Quest to Understand the Structure of the Universe**—Zdenek Kopal—Taplinger, 1971, 176 p., illus., \$6.95. Focuses on the theories and revolutionary discoveries of such great astronomers as Herschel, Copernicus, Kepler and Aristarchus, following their efforts to determine the dimensions and understand the large-scale structure of the universe.

**WORLD SOILS**—E. M. Bridges—Cambridge Univ. Press, 1970, 89 p., color plates, photographs, diagrams, maps, \$3.95. Reference source and text, treats the scientific aspects of soils fundamental to an understanding of the pattern of soil distribution throughout the world. Describes local variations within geographic zonal framework.

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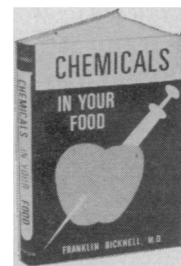
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