

# Books of the Week

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**AFRICAN WILDLIFE**—Franz A. Roedelberger and Vera I. Groschoff; English version by Nieter O'Leary and Pamela Paulet; introd. by Edwin Way Teale—Viking Press, 224 p., 274 color and black and white photographs, \$8.95. Brings to life the variety, action and characteristics of the African fauna.

**THE BEYOND WITHIN: The LSD Story**—Sidney Cohen, foreword by Gardner Murphy—Atheneum, 268 p., \$5. A physician's objective report on the impact of a powerful chemical drug upon the psychological world of man.

**GROUP THEORY AND SOLID STATE PHYSICS: A Selection of Papers, Vol. 1**—Paul H. Meljor, Ed.—Gordon & Breach, 293 p., \$5.95. Selection includes older papers of special interest to developments in solid state physics.

**GUIDE TO RUSSIAN REFERENCE BOOKS, Vol. II: History, Auxiliary Historical Sciences, Ethnography and Geography**—Karol Maichel; J. S. G. Simmons, Ed.—Hoover Institution, 297 p., \$12. For scholars and reference librarians concerned with research in Russian and Soviet history.


**HIBERNATION: BSCS Pamphlet 19**—William V. Mayer—AIBS (Heath), 40 p., illus., paper, one of eight pamphlets, annual subscription \$4. Presents what modern research has found out about the process of hibernation.

**HOW TO GET GOOD MEDICAL CARE**—Irvin Block—Public Affairs Pamphlets, No. 368, 28 p., illus. by Teri, paper, 25¢ direct to publisher, 381 Park Ave., South, New York 10016. Criteria for judging a doctor's competence and good hospital care.

**INORGANIC COMPLEX COMPOUNDS**—R. Kent Murmann—Reinhold, 120 p., diagrams, paper, \$1.95. Presents to undergraduate chemistry students and to students in neighboring fields some of the basic concepts involved in the formation of metal complexes.

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**MATTER, ELECTRICITY AND ENERGY**—Genevieve Darmois, transl. from French by M. J. Seaton and Joy C. Seaton—Walker & Co., 132 p., diagrams, \$3.50. A concise study of the solid, liquid and gaseous states of matter, its molecular constitution and energy, illustrating reasoning with mathematical formulae throughout.

**THE NAGA KING'S DAUGHTER**—Stewart Wavell—Atheneum, 247 p., 50 photographs (25 in color), maps, \$6.50. Travelogue of a four-man expedition, two of them anthropologists, through South Thailand and North Malaya.

**NATURE OF MATTER: Purposes of High Energy Physics**—Luke C. L. Yuan, Ed.—Brookhaven Nat. Lab. (CFSTI), 149 p., illus., paper, \$1.75. Views of theoretical physicists on the purposes, problems and technical considerations of high energy physics, and a discussion of experimental feasibility at super high energies. See story on p. 85.

**OPTICAL ASTRONOMY: Changing Horizons**—Colin A. Ronan—Roy Pubs., 68 p., 16 p. plates, diagrams by David Wheeler, \$2.95. Shows the advances in observations by means of giant telescopes now able to measure stars 6,000 million light-years away.

**ORCHIDS OF THE WESTERN GREAT LAKES REGION**—Frederick W. Case Jr.—Cranbrook Inst. of Science, 147 p., color plates, 52 photographs by author, illus., maps, \$7. Intended for the amateur field botanist, this handsome guide offers identification keys with line drawings, diagrams, descriptions and ecological notes.

**OUR WORLD IN SPACE: An Easy Guide to the Universe**—Henry C. King—Macrae Smith, 94 p., illus. by Alan Ball, \$2.95. For young people.

**PATHWAYS IN SPACE**—Bryan Silcock—Roy Pubs., 70 p., photographs, diagrams by John W. Wood, \$2.95. A summary of space exploration projects aimed at young people who might consider a career in space.

**THE PHILOSOPHY OF SCIENCE: A Systematic Account**—Peter Caws—Van Nostrand, 354 p., diagrams, \$6.75. A lucid exposition of that branch of philosophy which analyzes and advances theories about the structure and function of science.

**THE PSYCHOLOGY OF LAUGHTER: A Study in Social Adaptation**—Ralph Piddington—Gamut Press, 224 p., \$4.95. Anthropologist's brief critique of some 40 theories of laughter, followed by concise summaries of some 50 writers' ideas on laughter.

**RANGER VII LUNAR CHARTS: RLC 1 through 5**—Aeronautical Chart and Information Center, USAF—GPO, five folded maps, \$3. Series of charts compiled from television records of the six Ranger VII cameras. Scale ranges from 1:1,000 to 1:1,000,000.

**RARE EARTHS: The Fraternal Fifteen**—Karl A. Gschneidner, Jr.—USAEC, 42 p., illus., paper, single copies free upon request direct to USAEC, P.O. Box 62, Oak Ridge, Tenn. 37831. About the history, atomic structure, chemistry, physical properties and applications of this family of naturally occurring elements.

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**THE RELEVANCE OF SCIENCE: Creation and Cosmogony**—C. F. von Weizsacker—Harper, 192 p., \$5. In these Gifford Lectures 1959-60, a theoretical physicist takes as his subject the truth of science, its meaning, limitations and possible ambiguities.

**REVIEWS OF DATA ON SCIENCE RESOURCES, Vol. I, No. 1, December 1964**—National Science Foundation—GPO, 12 p., paper, 10¢ direct to U.S. Govt. Print. Office, Washington, D.C. 20402. This new series supersedes the two previous publications, *Reviews of Data on Research & Development* and the *Scientific Manpower Bulletin*.

**RUDOLF DIESEL: Pioneer of the Age of Power**—W. Robert Nitske and Charles Morrow Wilson—Univ. of Okla. Press, 318 p., illus., \$5.95. Biography including brief history of the development of the Diesel engine in various parts of the world.

**SCIENCE BY DEGREES: Temperature from Zero to Zero**—Scientists of the Westinghouse Research Laboratories, Jack Castle, Jr. and others; foreword by Watson Davis—Walker & Co., 229 p., illus., \$5.95. Research scientists here present the theory, experimental findings and practical applications of that vast spectrum of temperatures from absolute zero to the intense heat inside stars, giving us insight into the structure of matter in new dimensions.

**SELECTED PAPERS ON MATHEMATICAL TRENDS IN CONTROL THEORY**—Richard Bellman and Robert Kalaba, Eds.—Dover, 200 p., paper, \$2. Original collection of 13 unabridged papers, ranging from Maxwell's "On Governors" (1968) to "Dynamic Programming and Adaptive Processes" by Bellman and Kalaba (1960).

**SELECTED PAPERS ON SEMICONDUCTOR MICROWAVE ELECTRONICS**—Sumner N. Levine and Richard M. Kurzkrok, Eds.—Dover, 297 p., illus., paper, \$2.25. Twenty-six recent papers selected for their pioneering significance in the development of parametric devices and tunnel diodes.

**SOLID-EARTH GEOPHYSICS: Survey and Outlook**—Panel on Solid-Earth Problems, Geophysics Research Board and Div. of Earth Sciences—NAS-NRC, 198 p., paper, \$4. See story on p. 88.

**STARS AND PLANETS**—James Muirhead—Crowell, 318 p., illus., \$4.95. In this study of the night sky for the general reader, an astronomer discusses the solar system, stars and galaxies, and gives practical advice to the amateur astronomer.

**THE THEORETICAL SIGNIFICANCE OF EXPERIMENTAL RELATIVITY**—R. H. Dicke—Gordon & Breach, 153 p., illus., \$4.95; paper, \$1.95. A course of lectures discussing the Null experiments and three famous tests of general relativity, and their interpretation.

**WEATHER MODIFICATION: Fifth Annual Report, 1963**—National Science Foundation—GPO, 40 p., paper, 25¢. Discusses the national weather modification program for 1964, grants and contracts awarded and related federal activities.

**WORLD AVIATION DIRECTORY, WINTER 1964-65**, listing Aviation Companies and Officials—Donald W. Dean, Ed.—Am. Aviation Pubs., 1174 p., paper, \$15. Covers U.S., Canada, Europe, Latin America, Africa, Middle East, Australasia and Asia.

• Science News Letter, 87:92 February 6, 1965

## ASTRONOMY

### New 'Stonehenge' Found in Scotland

► A NEW "STONEHENGE," a pattern of huge standing rocks used by Stone Age man to mark the seasons, has been revealed in Scotland.

The array at Callanish could also have been used to predict the most likely time for eclipses, as was Stonehenge. The Callanish site is on Lewis, the northernmost island of the Outer Hebrides, about 80 miles north of Barra.

Callanish consists of a ring of 13 stones with a central great rock, an avenue and other deliberately set rows of stones. The stones are aligned to show the direction of the rising and setting of the sun and moon at solstice and at equinox.

The astronomical line-up is "indisputable," Dr. Gerald S. Hawkins of Boston University, Smithsonian Astrophysical Observatory and Harvard College Observatory reported. The suggestion that the pattern could also have been used to compute eclipse seasons is conjectural, Dr. Hawkins stated in *Science* 147:127, 1965.

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