

Books of the Week

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AFRICAN GLORY: The Story of Vanished Negro Civilizations—J. C. deGraft-Johnson—Walker & Co., 211 p., plate, \$4.95. Attempts a study of Negro history through an account of pre-colonial Africa, the empires of West Africa, Ghana, Mali and Songhai. Reprint (1954).

AFRICAN KINGDOMS—Basil Davidson and Editors of Time-Life Books—Time-Life Bks., 191 p., illus., 72 p. in full color, \$3.95 direct to publisher, Time & Life Bldg., Chicago, Ill. 60611. In picture essays this book explores the civilizations that produced the pyramids of Kush, the rock paintings in the Sahara, the sculptures of Benin and unique forms of community organization.

ANATOMY OF THE CELL—Bjorn Afzelius, transl. from Swedish by Birgit Satir—Univ. of Chicago Press, 127 p., illus., 36 electron micrograph plates, \$5.50. Describes the biological discoveries made with the electron microscope, for the layman.

ANCIENT GREEK GADGETS AND MACHINES—Robert S. Brumbaugh—Crowell, Thomas Y., 152 p., illus., \$4.95. Offers a new perspective of ancient Athens and Alexandria through the homely and magic devices produced by Greek inventors, illustrated with diagrams and photographs from Greek museums.

THE ART OF UNDERWATER PHOTOGRAPHY—Walter A. Starck II and Paul Brundza—Chilton Bks., 160 p., photographs, \$6.95. Provides up-to-date information on basic ideas relevant to underwater photographic equipment and techniques, emphasizing what is possible with presently available equipment and how to handle problems underwater.

AUSTRALIA AND THE PACIFIC ISLANDS: A Natural History—Allen Keast, foreword by Alan Moorehead—Random House, 298 p., 249 photographs, 106 in color, maps, \$20 until Jan. 31, 1967, \$16.95. Affords a beautiful overview of the unique geology, fauna and flora of the continent, of New Zealand, New Guinea and Melanesia.

THE AUSTRALIANS: A Candid View From Down Under—Harry Cox—Chilton Bks., 193 p., plates, \$4.95. A journalist's portrait of his homeland with emphasis on the people, from pioneers to aborigines.

BLUEPRINT FOR PEACE: Being the Proposals of Prominent Americans to the White House Conference on International Cooperation—Richard N. Gardner—McGraw, 404 p., \$7.95. Includes reports on using science and technology, international cooperation in meteorology and exploration of outer space to further the aims of peace.

THE BRIDGE OF LIFE: From Matter to Spirit—Edmund W. Sinnott—Simon & Schuster, 255 p., \$4.95. A modern biologist's philosophical autobiography.

THE DYMATION WORLD OF BUCKMINSTER FULLER—Robert W. Marks—Southern Ill. Univ. Press, 232 p., photographs, drawings, maps, \$10. An excursion into the world of the 4D house, synergetic geometry, geodesic invention, Dymaxion maps, radomes and plydomes, the Dymaxion bathroom and dwelling machine.

THE EFFECTIVE STUDENT: A Constructive Method of Study—H. Chandler Elliott—Harper, 178 p., \$3.95. Offers thorough guidance to study aids, methods and techniques, discussing in detail systematic study habits designed to increase the amount of material permanently learned.

FOSTER PARENTHOOD: A Role Analysis—David Fanshel—Univ. of Minn. Press, 176 p., \$5.50. A study in depth of the special attributes of foster parents, based on research with the group of foster parents cooperating with the Family and Children's Service in Pittsburgh, Pennsylvania.

FUNDAMENTAL PHENOMENA IN THE MATERIALS SCIENCES, Vol 3: Surface Phenomena—L. J. Bonis, P. L. de Bruyn and J. J. Duga—Plenum Press, 230 p., illus., \$12.50. These proceedings of the third symposium explore in detail the four interrelated branches of the study of surface phenomena—surface thermodynamics, nucleation, diffusion and fine-particles technology.

GASES AND PLASMAS—Paul D. Thompson—Lippincott, 168 p., illus., \$4.25. Introduces

the general reader to the science of gases including discussion of ionized gases or plasmas and their present and future applications.

THE GREAT WHITE—Jane and Paul Annixter—Holiday House, 158 p., \$3.25. A wilderness adventure story about a polar bear, for young people.

HEALTH IS A COMMUNITY AFFAIR: Report of the National Commission on Community Health Services—Harvard Univ. Press, 252 p., \$5; paper, \$2.25. Proposes courses of action based on findings and recommendations of six national task forces and 21 community health studies, tested by the reactions of 1000 community and health leaders in four regional forums.

HERCULANEUM: Italy's Buried Treasure—Joseph Jay Deiss—Crowell, Thomas Y., 174 p., 75 photographs, maps, \$5.95. Gives a vivid account of what has come to light of the Roman pleasure resort buried under hot lava suddenly one morning almost 2,000 years ago.

IMAGES OF THE UNIVERSE: Leonardo da Vinci, the Artist as Scientist—Richard McLanathan—Doubleday, 192 p., drawings, \$4.50. Biographical sketch and selection of drawings from the notebooks reproduced without reduction, gives a vivid insight into the methods of work Leonardo used in his inventions.

IRELAND EXPLORED—Wolfgang Retler—Grosset & Dunlap, 103 p., 70 photographs, drawings, map, \$4.95. A handsomely presented view of the land and its relics of the past.

LAND, SEA AND SKY: An Introduction to the Wonders of Natural Science—George Groh—Collier-Macmillan, 88 p., \$2.95. A quick review of natural phenomena such as glaciers, volcanoes, coral colonies, lightning and Carlsbad Caverns, with short scientific explanations.

LASERS AND THEIR APPLICATIONS—Kurt R. Stehling—World Pub. Co., 201 p., illus., \$6. A nontechnical overview of recent developments in laser technology, laser applications in communications and measurement, medicine, space and military uses.

THE LIFE OF THE SEASHORE—William H. Amos—McGraw, 231 p., 117 color photographs, drawings, maps, \$4.95. Beautifully illustrated, conservation-minded, this book describes in some detail the complex communities of living things along sandy beaches and rocky shores.

THE MIDWIFE AND THE WITCH—Thomas Rogers Forbes—Yale Univ. Press, 196 p., illus., \$6.50. Thoroughly documented essays on some of the more colorful superstitions, with emphasis on the gradual emergence of scientific explanations to replace the popular notions of the credulous. Includes bibliography of nearly 900 sources.

MILESTONES OF MODERN CHEMISTRY: Original Reports of the Discoveries—Eduard Farber, Ed.—Basic Bks., 237 p., illus., \$5.95. Presents 19 selections by scientists prominent in the development of experimentation and thought in modern chemistry, with the introductions to each paper providing a path of continuity.

MODERN ASPECTS OF POLAROGRAPHY: A Tribute to Isamu Tachi—Tomihito Kambara, Ed.—Plenum Press, 245 p., diagrams, \$10. Thirty-two papers contributed by internationally known scientists describe polarographic theory and methodology, adsorption and double-layer problems, A.C. methods, organic polarography and related topics.

MY WAY WAS NORTH: An Alaskan Autobiography—Frank Dufresne, introd. by Corey Ford—Holt, 274 p., drawings by Rachel Horne, \$5.95. The author who for many years was Director of the Alaskan Game Commission eloquently describes his encounters with primitive Eskimos and the wildlife of Alaska.

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THE NATIONAL PARKS OF AMERICA—Stuart L. Udall and the Editors of Country Beautiful—Putnam, 226 p., 170 photographs, maps, \$15.95. Displays and describes the beauty and characteristic features of 31 national parks.

NIELS BOHR: The Man, His Science and the World They Changed—Ruth Moore—Knopf, 443 p., 16 plates, diagrams, \$6.95. A well researched and highly readable biography of the Nobelist, his ground-breaking ideas in quantum physics, the men with whom he worked and the influence of the scientific institute he headed in Denmark.

THE NORTH AMERICAN BIGHORN SHEEP—Mary Adrian—Hastings House, 63 p., illus. by Genevieve Vaughan-Jackson, \$2.95. Tells children about the life cycle of a species that has become rare.

1 IN 7: Drugs on Campus—Richard Goldstein—Walker & Co., 235 p., \$4.95. A frank, journalistic account, based on interviews, of the use of non-addictive drugs on campuses, region and by region, with discussion of the medical evidence about pot, pills, LSD and heroin.

ONE PASSION, TWO LOVES: The Story of Heinrich and Sophia Schliemann, Discoverers of Troy—Lynn and Gray Poole—Crowell, Thomas Y., 299 p., photographs, maps, \$6.95. Based on personal letters and documents, this biography reconstructs a happy marriage that shared a passion for archaeology.

PEOPLE OF RIMROCK: A Study of Values in Five Cultures—Evon Z. Vogt and Ethel M. Albert, Eds.—Harvard Univ. Press, 342 p., plates, \$9.95. Reports the results of a six-year extensive field study in western New Mexico where five distinct cultures live in close proximity—Navaho, Zuni, Spanish-American, Mormon and Texan homesteaders.

PREDICTING READING FAILURE: A Preliminary Study of Potential Reading, Writing and Spelling Disabilities in Preschool Children—Katrina de Hirsch, Jeannette Jefferson Jansky and William S. Langford—Harper, 144 p., \$5.95. The result of nearly 20 years of research, the book offers solutions to problems of learning difficulty, providing a means for identifying the causes of reading disabilities in children of normal intelligence.

PREVENTION AND TREATMENT OF MENTAL RETARDATION—Irving Philips, Ed. with Mary Ann Esser—Basic Bks., 463 p., diagrams, \$12.50. Focusing on the aspects of clinical care necessary to develop satisfying lives for the handicapped individual, a wide variety of professional specialists examine prevention, diagnosis, treatment and rehabilitation in the light of recent research findings.

PRINTING AND PROMOTION HANDBOOK: How to Plan, Produce and Use Printing, Advertising and Direct Mail—Daniel Melcher and Nancy Larrick—McGraw, 3rd ed., 451 p., illus., \$15. Consists mainly of an A-to-Z encyclopedia with up-to-date articles on such topics as circulars, mailing lists, master addresses, Electrofax, Photon, television time rates and Typro. Appendixes cover type faces, bibliography and postal information.

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REVIEWS OF PLASMA PHYSICS, Vol. 2—M. A. Leontovich, Ed., transl. from Russian by Herbert Lashinsky—Consultants, 297 p., diagrams, \$12.50. Contains four papers concentrating on aspects of the problems of plasma confinement.

ROCK, TIME AND LANDFORMS—Jerome Wyckoff—Harper, 372 p., 200 photographs, maps, \$8.95. About the natural forces behind the earth's processes of continuing change, an interpretation of landscapes, from volcanic scenery to lakes and swamps, from limestone country to ocean bottom, for the layman.

THE ROSE: A Complete Handbook—Roy Genders—Bobbs-Merrill, 623 p., 48 color plates, 100 photographs, drawings, \$12.50. A comprehensive and systematic presentation of the rose and its culture, covering history, evolution of its modern form, qualities, culture techniques and rose pests. Special index to varieties lists classification and height.

THE SCIENCE OF GEMS—P. J. Fisher—Scribner, 189 p., 100 photographs, diagrams, \$7.95. Acquaints the reader with the identification, grading, testing, evaluation and fashioning of gem stones, discusses atomic arrangement and crystal systems of gem stones as well as reflection, refraction and absorption of light. Gem tables and glossary included.

THE SECULARIZATION OF MODERN CULTURES—Bernard Eugene Meland—Oxford Univ. Press, 163 p., \$4.75. Lectures consider secularization as a modern phenomenon within a variety of contexts with principal focus on modern India and the West.

A SIGN FOR CAIN: An Exploration of Human Violence—Fredric Wertheim, M.D.—Macmillan, 391 p., \$6.95. A psychiatrist's study of the prevalence of human violence, from basic considerations of why men kill, through discussion of mass media, legal insanity and juvenile violence, to assessment of efforts made to abet man's predatory tendencies.

SOVIET ATTITUDES TOWARD AUTHORITY: An Interdisciplinary Approach to Problems of Soviet Character—Margaret Mead—Schocken Bks., 148 p., paper, \$1.75. Reprint (1951), with new introduction by author.

THE STORY OF THOMAS ALVA EDISON: The Wizard of Menlo Park—Mickie Comper—Four Winds Press, 64 p., illus. by Jerome B. Moriarty, \$2.50. Biography for the youngest readers.

THE STRUCTURE OF GLASS, Vol. 6: Properties, Structure and Physical-Chemical Effects—E. A. Porai-Koshits, Ed., transl. from Russian by E. Boris Uvarov—Consultants, 230 p., illus., \$25. Contains 53 papers on advances in the study of glassy materials and advanced research on the physical chemistry of oxygen-containing and oxygen-free glasses.

STUDIES OF NUCLEAR REACTIONS, Vol. 33—D. V. Skobel'tsyn, Ed., transl. from Russian by S. Chomet—Consultants, 222 p., diagrams, paper, \$22.50. Among other topics, the studies deal with proton-tritium reactions below (p,n) reaction threshold, elastic scattering of low-energy charged particles, and way of increasing the yield of nuclear reactions.

TO THE ROCK OF DARIUS: The Story of Henry Rawlinson—Robert Silverberg—Holt, 218 p., photographs, \$3.95. An account of archeological discoveries in Persia and the life of the man primarily responsible for the decipherment of cuneiform. For young and old.

TIDES—D. H. Macmillan—Am. Elsevier Pub. Co., 240 p., \$9.50. Nonmathematical introduction to the development of the broad principles of tidal science and the results of tidal research in its various practical applications.

A TOWER IN BABEL: A History of Broadcasting in the United States, Vol. I, to 1933—Erik Barnouw—Oxford Univ. Press 344 p., plates, \$8.50. This first of three volumes is an account of how radio and television became an integral part of American life, ends with the first inauguration of Franklin D. Roosevelt.

THE TRAIL OF THE POPPY: Behind the Mask of the Mafia—Charles Sirgusa, as told to Robert Wiedrich—Prentice-Hall, 235 p., map, \$4.95. The story of a federal narcotics agent who successfully infiltrated the Mafia-controlled gangs in his global pursuit to track down sources of the narcotics traffic.

TREASURES OF THE WORLD—Robert Charroux, transl. from French by Gloria Cantu—Eriksson, 248 p., plates, \$5. About treasure seekers and fables of hidden or sunken treasures around the world.

VALLEY OF THE SMALLEST: The Life Story of a Shrew—Aileen Fisher—Crowell, Thomas Y, 161 p., illus. by Jean Zallinger, \$3.75. Follows the life cycle of the smallest of the mammals in its natural surroundings.

WEATHER OR NOT—Florence W. van Straten—Dodd, 237 p., photographs, diagrams, \$5. Meteorologist discusses in layman's language atmospheric processes, weather observations by radar and balloons, climate, winds, clouds and efforts of weather modification.

WHERE THE SEA BREAKS ITS BACK: The Epic Story of a Pioneer Naturalist and the Discovery of Alaska—Corey Ford—Little, 206 p., illus. by Lois Darling, maps, \$5.95. Recreates the hardships and tells of the accomplishments of the 18th century naturalist Steller in the Aleutians, as he participated in Bering's voyage from Kamchatka to the coast of Alaska.

THE WILD VOYAGEUR: Story of a Canada Goose—Adrienne Jones—Little, Brown, 174 p., illus. by Lois Darling, \$3.95. Tells of the flight north for mating, the nest-building, hatching and learning, all in the life story of one gosling.

WILD FLOWERS OF THE UNITED STATES, Vol. 1: The Northeastern States—Harold William Rickett—N.Y. Botanical Garden (McGraw), 559 p., 180 color plates, drawings, 10x13 inches, in two parts, boxed, \$39.50. First in series of comprehensive books on American wild flowers, scientifically accurate in non-technical language, each species depicted in color. This volume covers region from the Atlantic to Minnesota and Missouri, and from the Canadian border to Virginia and Missouri.

THE WILDLIFE OF SOUTH AMERICA—Dorothy E. Shuttlesworth, foreword by Philip K. Crowe—Hastings House, 117 p., illus. by G. F. Mason, \$4.50. About the animals of South America and the need for conservation.

THE WINTER BEACH—Charlton Ogburn, Jr.—Morrow, 321 p., drawings, maps, \$6.95. Observations of the physical world of nature along the Atlantic shore following winter southward from eastern Maine to the North Carolina Banks.

WONDERS OF ENGINEERING—Nora Stirling—Doubleday, 127 p., illus. by Emil Weiss, \$3.25. Tells boys and girls how some of the outstanding engineering feats, from Stonehenge to Hoover Dam, came into being.

WONDERS OF THE SPIDER WORLD—Sigmund A. Lavine—Dodd, 64 p., photographs, diagrams, \$3. An informative little book about arachnids, explains their anatomy and behavior, and suggests activities for young naturalists.

YANQUI, COME BACK! Th Story of Hope in Peru—William B. Walsh, M.D.—Dutton, 192 p., plates, \$4.95. The story of the change wrought in and around Trujillo, Peru, by the ten-months visit of the hospital ship Hope and the dedicated work of its doctors and nurses.

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MEDICINE

World's Smallest Mother Is Doing Just Fine

► A WOMAN who is only three feet three inches tall has given birth to her second child, and mother and baby are doing well. Doctors said they believed Mrs. Grace Cook, 28, of Riverstone, Sydney, is the world's smallest mother.

The medical superintendent of Sydney's Crown Street Women's Hospital, Dr. V. Pannikote, said that Australian and overseas medical records had indicated that she was unique. "Previously the smallest mother recorded was four feet seven inches," he said.


Mrs. Cook's new baby, Lynda, weighed four pounds nine ounces when she was born by cesarean section. Mrs. Cook's first daughter, Kyra, was delivered the same way in September 1962. Before each birth, Mrs. Cook spent a period of 10 weeks in the hospital for physiotherapy.

"Mrs. Cook has boosted the morale of other mothers in her ward because she's feeling much better than some who are twice her size and twice as strong," Dr. Pannikote said.

Mrs. Cook had first come to the hospital early in 1962 to find out if she could have children. Her family background indicated that her size was not hereditary, the doctor said.

"We told her she had a good chance of having normal children. Nevertheless she showed courage in taking the risk. For a three-foot-three-inch woman who weighs only four stone three pounds (59 pounds) and has a spine condition, too, she has done extremely well," added Dr. Pannikote.

Both her children appear to be growing normally.



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