

• Books of the Week •

For the editorial information of our readers, books received for review are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C.

AFTER THE SEVENTH DAY: The World Man Created—Ritchie Calder—*New Am. Lib.*, 348 p., illus., paper, 75¢. An account of man's increasing mastery over his environment, from cave dweller to astronaut.

BRAIN AND BEHAVIOR IN CEPHALOPODS—M. J. Wells—*Stanford Univ. Press*, 171 p., illus., \$4.50. Monograph on the nature, behavior, learning and form discrimination, and the central nervous system of octopuses and other cephalopods.

DEEP IN CAVES AND CAVERNS—Lynn and Gray Poole—*Dodd*, 158 p., photographs, \$3.25. About famous caves and how they have been explored.

DOCTORS, PATIENTS AND HEALTH INSURANCE: The Organization and Financing of Medical Care—Herman Miles Somers and Anne Ramsay Somers—*Doubleday*, 544 p., paper, \$1.95. Abridged edition of Brookings Institution report published in 1961.

EGO SYNTHESIS IN DREAMS—Richard M. Jones—*Schenkman Pub. Co.*, 100 p., \$4.50; paper, \$2.45. Monograph, introducing and exploring a method of using dreams as research material in normal "growth" psychology.

EXPERIMENTAL TRANSITION PROBABILITIES FOR SPECTRAL LINES OF SEVENTY ELEMENTS: Derived from NBS Tables of Spectral-line Intensities—Charles H. Corliss and William R. Bozman—*NBS (GPO)*, 562 p., \$4.25. The wavelength, energy levels, transition probability and oscillator strength of 25,000 lines.

THE FABULOUS ISOTOPES—Robin McKown—*Holiday House*, 189 p., photographs, illus. by Isadore Steinberg, \$4.50. On the nature of isotopes and how they are being used for the benefit of research and industry.

GIANT OF THE ATOM: Ernest Rutherford—Robin McKown—*Messner*, 191 p., \$3.25. Juvenile biography with bibliography and detailed index.

HYPERCONJUGATION—Michael J. S. Dewar—*Ronald*, 184 p., \$6. Surveys the various kinds of physical and chemical behavior where hyper-

conjugation has been supposed to exert an important influence, and examines the evidence critically.

MODERN CRIMINAL INVESTIGATION—Harry Soederman and John J. O'Connell, rev. by Charles E. O'Hara—*Funk*, 5th ed., 559 p., \$7.50. Revision includes the more important developments in the art and science of crime detection.

MORE LIVES THAN ONE—Joseph Wood Krutch—*Sloane*, 378 p., \$5. Autobiography of essayist-naturalist.

NATURAL HISTORY OF INFECTIOUS DISEASE—Sir Macfarlane Burnet—*Cambridge Univ. Press*, 3rd ed., 377 p., \$6. Topics include bacterial genetics, bacteriophages, the clonal selection theory of acquired immunity and the development of vaccines for polio and measles.

THE NEEDS OF EDUCATION FOR TELEVISION CHANNEL ALLOCATIONS: A Survey—National Association of Educational Broadcasters—*OE (GPO)*, 181 p., maps, paper, \$9.25. Study designed to bring into focus needed TV facilities for education during the next decade.

OF CABBAGES AND CATTLE: The Story of America's Farms—Dirk Gringhuis—*Dial Press*, 37 p., illus. by author, \$2.95. Child's introduction to modern agriculture.

PASSIONATE PARADOX: The Life of Marie Stopes—Keith Briant—*Norton*, 286 p., photographs, \$5. Biography of one of the most influential pioneers in the birth control movement.

THE PERSON IN THE BODY: An Introduction to Psychosomatic Medicine—Leland E. Hinsie—*Norton*, 142 p., paper, \$1.45. Reprint (1945), deals with the influences of mental distress on the functioning of the body.

PUBLIC GARDENS AND ARBORETUMS OF THE UNITED STATES—Martha McMillan Roberts—*Holt*, 148 p., photographs by author, \$7.50. Views and short descriptions of beautifully landscaped gardens.

RESEARCH FOR INDUSTRY, 1961—Dept. of Scientific and Industrial Research—*British Information Services*, 140 p., illus., paper, \$2. A report on work by British industrial research associations under the cooperative program of general government grants.

RESEARCH IN FAMILY PLANNING—Clyde V. Kiser, Ed.—*Princeton Univ. Press*, 662 p., \$12.50. Papers and discussion of research, ranging from studies of the effectiveness of various types of contraceptives to ways and means of enhancing motivation and communication in this field, particularly in the developing areas of the world.

RETURN TO THE WILD: The Story of Two Lions—Norman Carr, foreword by the Earl of Dalhousie—*Dutton*, 127 p., photographs, \$4.50. Story of African game warden's relationship with two young lions he taught to be able to return to the wild.

SCIENCE FOR THE NON-SCIENTIST—A. R. Patton—*Burgess*, 125 p., illus., paper, \$2.50. Explains for the reader without any scientific back-

ground, such concepts as cesium clock, periodic table, covalent bond, colloidal state and free energy.

THE SCIENCE OF OURSELVES: Adventures in Experimental Psychology—W. N. McBain and R. C. Johnson—*Harper & Row*, 217 p., illus. by Ilse Koehn, \$3.50. Introduces young persons to the methods and experiments used in studying human behavior.

SILENT SPRING—Rachel Carson—*Houghton*, 368 p., illus. by Lois and Louis Darling, \$5. Eloquent protest by a scientist about the indiscriminate use of pesticides by which man has poisoned birds, fish and other wildlife, and possibly even himself.

THE SPACE INDUSTRY: America's Newest Giant—Editors of *Fortune*—*Prentice-Hall*, 178 p., \$4.95. A look at the U. S. space effort from the business and management's point of view.

THIS UNIVERSE OF SPACE—Peter M. Millman—*Schenkman Pub. Co.*, 118 p., diagrams by author, paper, \$1.95. Astrophysicist's up-to-date and very readable general account of the observable universe.

TOMORROW'S MATH: Unsolved Problems for the Amateur—C. Stanley Ogilvy—*Oxford Univ. Press*, 182 p., illus., \$5. Mathematician explains in terms intelligible to the layman, some of the analytical, geometrical, topological and arithmetical problems that have been studied so far without success.

VARACTOR APPLICATIONS—Paul Penfield, Jr. and Robert P. Rafuse—*M.I.T. Press*, 623 p., \$15. A theoretical study of semiconductor diodes with a nonlinear capacitance usable at microwave frequencies.

WEATHER MODIFICATION: Third Annual Report for Fiscal Year Ended June 30, 1961—National Science Foundation—*GPO*, 78 p., paper, 30¢. Summarizes U.S. weather modification activities and reviews programs in other countries.

WONDERS OF THE FIELDS AND PONDS AT NIGHT—Jacquelyn Berrill—*Dodd*, illus. by author, \$3. Tells young readers about small animals at night in the backyard, in the air, underground and at the pond.

THE YOSEMITE—John Muir, notes and introd. by Frederic R. Gunsby—*Doubleday*, 225 p., photographs, paper, 95¢. First published in 1912.

• Science News Letter, 82:196 September 22, 1962

TECHNOLOGY

Air-Insulated "Balloon" Communications Cable

► COMMUNICATIONS cable that looks like linked miniature balloons has been announced by Superior Cable Corporation, Hickory, N. C. and Simplex Wire & Cable Company, Cambridge, Mass. The technique was imported from France.

The "balloon" design, as it is known throughout Europe, makes possible "improved transmission combined with exceptional mechanical strength and anticipated economy over existing coaxial and telephonic types now available to U. S. cable users," the announcement said.

Widespread application is expected, according to both Simplex and Superior, for carrying all kinds of information electronically, whether "words, pictures or symbols."

Among volume markets viewed are: telephonic communication, railroad and utility applications; educational, community and closed circuit TV; and long lines carrier systems for both audio and video signals.

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