

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

**THE ADVANCEMENT OF SCIENCE: Vol. XIV, No. 54**—P. M. S. Blackett and others—*British Association for the Advancement of Science*, 150 p., illus., paper, 7 s., 6 d. Containing the presidential address and the addresses by presidents of sections.

**ANTARCTIC NIGHT: One Man's Story of 28,224 Hours at the Bottom of the World**—Jack Bursley—*Rand McNally*, 256 p., illus., \$4.95. The author has studied the lure and beauty of the Antarctic as member of Byrd's Antarctic Expedition of 1928-30, then the U. S. Antarctic Service Expedition of 1939-1941 and finally on Operation Deepfreeze of 1955-57.

**THE ANTS**—Wilhelm Goetsch, translated by Ralph Manheim—*University of Michigan Press*, 169 p., illus., \$4.50. The author was attracted to the study of ants by a desire to find out how much truth lies in the old legends.

**AUTOMATION IN PRACTICE**—S. E. Rusinoff—*American Technical Society*, 261 p., illus., \$6.50. A survey of the latest techniques of automatic production as they are actually applied in manufacturing and metal working industries.

**BALLOONS TO JETS**—Howard L. Scamehorn—*Henry Regnery Co.*, 271 p., illus., \$5.00. Reviewing the history of aviation in Illinois from 1855 to 1955.

**CATALYSIS IN PRACTICE: A Collection of Papers Originally Presented in Philadelphia, Pa., in April, 1957, Under the Auspices of the Philadelphia-Wilmington Section of the American Institute of Chemical Engineers and the School of Chemical Engineering, University of Pennsylvania**—C. H. Collier, Ed.—*Reinhold*, 153 p., illus., \$3.95. Actual methods, economics and problems as presented by leading practitioners in chemical process industries.

**CHEMICAL ENGINEERING IN THE COAL IN-**

**DUSTRY: An International Conference Organized by the National Coal Board, Great Britain**—Forbes W. Sharpley, Ed.—*Pergamon Press*, 141 p., illus., \$8.50. Containing papers presented at the Conference.

**CORROSION AND WEAR HANDBOOK FOR WATER-COOLED REACTORS**—D. J. DePaul, Ed.—*McGraw-Hill* for U. S. Atomic Energy Commission, 293 p., illus., \$6.00. Authoritative information for those working on reactor projects.

**DEW LINE: Distant Early Warning, the Miracle of America's First Line of Defense**—Richard Morenus—*Rand McNally*, 184 p., illus., \$3.95. The completion of this great warning system was a dramatic feat of engineering.

**EXPERIMENTAL CRYSTAL PHYSICS**—W. A. Wooster—*Oxford University Press*, 115 p., illus., \$2.90. Containing simple experiments intended to teach the fundamentals of the subject.

**EXPLORING THE ANIMAL KINGDOM**—Millicent E. Selsam—*Garden City Books*, 64 p., illus. with drawings and paintings by Lee Ames, \$2.50. A beautiful book introducing the animal kingdom to young people.

**A GUIDE TO GRADUATE STUDY: Programs Leading to the Ph.D. Degree**—Frederic W. Ness, Ed.—*Association of American Colleges*, 335 p., \$5.00. Aid for college deans and counselors as well as actual and prospective graduate students, telling what programs are available in the 135 colleges and universities granting the Ph.D. degree.

**HANDBOOK ON PROPAGATION: Special Issue of Plants and Gardens**—Lewis E. Lipp, Guest Ed.—*Brooklyn Botanic Garden*, 159 p., illus., paper, \$1.00. Telling clearly how to root cuttings of your favorite plants.

**A HISTORY OF TECHNOLOGY: Volume III, From the Renaissance to the Industrial Revolution c 1500—c 1750**—Charles Singer and others, Eds.—*Oxford University Press*, 766 p., 32 pl., \$26.90. Telling how the work of the world was done in days gone by.

**IDEAS, INVENTIONS, AND PATENTS: How To Develop and Protect Them**—Robert A. Buckles—*Wiley*, 270 p., illus., \$5.95. For engineers and scientists engaged in research and development and for those businessmen engaged in planning and managing industrial enterprises in which inventions play a role.

**INTRODUCTION TO PROTEIN CHEMISTRY**—Sidney W. Fox and Joseph F. Foster—*Wiley*, 459 p., illus., \$9.50. Intended as a readable, integrated and relatively comprehensive introduction to the field.

**INTRODUCTION TO THE MECHANICS OF STELLAR SYSTEMS**—Rudolph Kurth translated by F. D.

Kahn—*Pergamon Press*, 174 p., illus., \$9.00. Intended to serve as an introduction to the subject for advanced students.

**NATURAL MAGIC**—John Baptista Porta—*Basic Books*, The Collector's Series in Science, 409 p., illus., \$7.50. A facsimile reproduction of the first edition in English published in 1658, this is the only printed record of the first scientific society of modern times.

**THE OBSERVER'S HANDBOOK 1958**—Ruth J. Northcott, Ed.—*Royal Astronomical Society of Canada*, 84 p., illus., paper, 75 cents. Important reference material for astronomers.

**PALMER'S FIELDBOOK OF MAMMALS: A Unit in a Series of Aids to Conservation**—E. Laurence Palmer—*Dutton*, 321 p., illus., \$3.75. Information that the average person needs about his dog, horse, or pig cannot be found in the average mammal book and the average book on domestic animals does not include mice in the attic, squirrels in the trees, bats in the air or minks in the brook. This handbook covers both domestic and wild mammals.

**PSYCHIATRIC INPATIENT TREATMENT OF CHILDREN**—J. Franklin Robinson and others, Eds.—*American Psychiatric Association*, 194 p., \$3.50. Describing the facilities available for the care of emotionally disturbed children.

**THE ROCKEFELLER FOUNDATION ANNUAL REPORT, 1956**—Dean Rusk, President—*Rockefeller Foundation*, 435 p., illus., free upon request direct to publisher, 49 West 49th Street, New York, N.Y. Reporting how the Foundation used more than \$30,000,000, \$7,000,000 more than its annual income, for humanitarian purposes.

**ROOTS OF SCIENTIFIC THOUGHT: A Cultural Perspective**—Philip P. Wiener and Aaron Noland, Eds.—*Basic Books*, 677 p., \$8.00. Selections showing some of the interrelations of scientific ideas with social, philosophical, religious, literary and artistic developments.

**SCIENCE: How? Why? Wherefore?**—Edward M. Robinson and George T. Polk—*The Priors Press*, 244 p., paper, \$2.50. Any program for stimulating interest in scientific progress, the authors indicate, must begin by providing the occasions for awakening curiosity in the minds of our young people.

**SCIENCE THEORY AND MAN**—Erwin Schrodinger—*Dover*, 223 p., illus., paper, \$1.35. This new edition is an unabridged reproduction of the classic first published in 1935 under the title "Science and the Human Temperament."

**A SHORT HISTORY OF ANATOMY FROM THE GREEKS TO HARVEY**—Charles Singer—*Dover*, 2d ed., 209 p., illus., paper, \$1.75. New edition of a work first published under the title "The Evolution of Anatomy" in 1925 and out of print for many years. Illustrated with many ancient drawings.

**THE STARS**—W. Kruse and W. Dieckvoss, translated by Ralph Manheim—*University of Michigan Press*, 202 p., illus., \$5.00. Concerned with the multitude of stars that shine beyond our own solar system.

**THE TEACHING OF MATHEMATICS**—Issued by the Incorporated Association of Assistant Masters in Secondary Schools—*Cambridge University Press*, 231 p., diagrams, \$3.00. A survey of the way mathematics is being taught in Britain.

Science News Letter, December 14, 1957

## The Right Way to Play CHESS

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