

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.

ABC'S OF MAGNETISM—Barron Kemp and Imperio Azteca—*Sams*, 96 p., illus., paper, \$1.95. Elementary guide to the basic principles and applications of magnetism.

ADVANCES IN APPLIED MICROBIOLOGY, VOL. 4—Wayne W. Umbreit, Ed.—*Academic Press*, 251 p., \$10. Contributions cover induced mutagenesis, bacterial viruses in industrial processes, continuous cultivation, and maintenance and loss of cell characteristics.

AEROSPACE FACTS AND FIGURES 1962—Ben S. Lee, Ed.—*Am. Aviation Publications*, 168 p., illus., paper, \$3. Statistical chronicle of the aerospace industry's research, development, test and production of aircraft, missiles, spacecraft and propulsion systems.

ARTIFICIAL SATELLITES, Vols. 7 and 8—L. V. Kurnosova, Ed.—*Consultants*, 254 p., diagrams, paper, \$15; annual subscription (six vols.) \$75. Translation of a serial publication of the Academy of Sciences of the USSR; subjects range from radio-astronomical investigations from cosmic rockets to discovery of a radiation anomaly at heights of 310-340 km above the South Atlantic Ocean.

ASTRONOMICAL TECHNIQUES—W. A. Hiltner, Ed.—*Univ. of Chicago Press*, 635 p., illus., \$16.50. Authoritative treatment of modern photometers, polarimeters, image converters, and television apparatus now in use at astronomical observatories. This is Vol. II of **STARS AND STELLAR SYSTEMS**, the planned nine-volume compendium on astrophysics and stellar astronomy.

BARLEY AND MALT: Biology, Biochemistry, Technology—A. H. Cook, Ed.—*Academic Press*, 740 p., illus., \$21. Presents unified account of extensive research devoted to the study of barley, with special emphasis on recent botanical, chemical, biochemical and technological advances.

BEHIND MANY MASKS: Ethnography and Impression Management in a Himalayan Village—Gerald D. Berreman—*Soc. for Applied Anthropology*, 24 p., paper, \$1.50. Describes field work experience in North India.

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CARNATIONS FOR EVERMAN—Montagu C. Allwood—*St. Martins*, rev. 5th ed., 120 p., photographs, \$3.95. Handbook on the cultivation of carnations.

THE CHEMICAL HISTORY OF A CANDLE—Michael Faraday; William Crookes, Ed.; new introd. by L. Pearce Williams—*Collier Bks.*, 124 p., illus., paper, 95¢. First edition published in 1861 under title: A course of six lectures on the chemical behavior of a candle.

THE CRY OF A BIRD—Dorothy Yglesias—*Dutton*, 168 p., photographs, \$4.95. Unusual story of how two sisters with limited means turned their Cornish coast home into a refuge for sick and injured birds.

A DICTIONARY OF BIOLOGY—M. Abercrombie, C. J. Hickman and M. L. Johnson—*Aldine Pub. Co.*, 254 p., illus., \$5. Up-to-date reference work explaining several thousand specialized terms useful to the biology student.

DISEASE, LIFE AND MAN: Selected Essays—Rudolf Virchow, transl. and introd. by Leland J. Rather—*Collier Bks.*, 288 p., paper, 95¢. Reprint (1958).

A DOCUMENTATION OF 14 YEAR'S EXPERIENCE IN SCIENCE SUMMER PROGRAMS WITH HIGH ABILITY SECONDARY SCHOOL STUDENTS, 1949-1962—Frederick R. Avis—*Precollegiate Science Summer Program*, 52 p., \$1 direct to publisher, Saint Mark's School, Southborough, Mass. Contains summary of 221 students' records, educational program offered, method of selection of students, and evaluation of present program.

FUNDAMENTALS OF MODERN SEMICONDUCTORS—Barron Kemp and R. H. McDonald—*Sams*, 160 p., illus., paper, \$2.95. Covers in layman's language solid-state design techniques and uses.

GAS CHROMATOGRAPHY—D. Ambrose and Barbara A. Ambrose—*Van Nostrand*, 220 p., diagrams, \$6.75. Emphasis throughout is on the practical aspects of the subject.

GENES, DRIVES AND INTELLECT—Keith J. Hayes—*Psychological Reports*, Monograph Supplement 2-V10, 41 p., paper, \$2.50. Attempts to integrate developments in three areas of psychology: behavior genetics, motivation, and the theory of intelligence.

GUIDE TO THE LITERATURE OF THE ZOOLOGICAL SCIENCES—Roger C. Smith—*Burgess*, 6th ed., 232 p., paper, \$4. Deals with the literature problems of the biologist, and lists the more important and useful references under suitable chapter and sectional headings.

HANDBOOK OF ADHESIVES—Irving Skeist, Ed.—*Reinhold*, 683 p., illus., \$23.50. A comprehensive, authoritative and critically evaluated compilation of adhesive materials and bonding technology.

HANDBOOK OF TRANSISTOR CIRCUIT DESIGN—Keats A. Pullen—*Prentice-Hall*, 556 p., \$13. A guidebook to the systematized approach to the design of circuits for transistors and other active devices.

KING OF THE CASTLE: The Story of a Kangaroo Rat—Rutherford G. Montgomery—*World Pub. Co.*, 62 p., illus. by Russell F. Peterson, \$2.95. The life cycle of a small animal in its desert world.

LABORATORY ORGANIZATION AND ADMINISTRATION—K. Guy—*Macmillan*, 386 p., illus., \$12. Presents the practical aspects of scientific laboratories, such as design, installation of equipment, stores management, safety, optical projection, and the special needs of teaching laboratories.

LABORATORY PLANNING FOR CHEMISTRY AND CHEMICAL ENGINEERING—Harry F. Lewis, Ed.—*Reinhold*, 522 p., illus., \$20. Authoritative and practical reference work on general and specific considerations and factors in the planning of laboratory facilities, including radioactivity laboratories, hospital research and college laboratories.

MAN AND NUMBER—Donald Smeltzer—*Collier Bks.*, 114 p., illus., paper 95¢. Reprint (1958) of simply written account of the evolution of the use of numbers.

MODERN COMMUNICATIONS COURSE, VOL. I: Radio-Frequency Systems—Edward M. Noll—*Sams*, 256 p., illus., paper, \$4.95. Introduction to radiocommunication, concentrating on circuits used to generate, amplify and radiate radio-frequency energy.

NAVAHO WITCHCRAFT—Clyde Kluckhohn—*Beacon Press*, 254 p., \$4.95. Noted anthropological work, first published in 1944, reprinted with biographical introduction by Talcott Parsons and Evon Z. Vogt.

NEUTRON PHYSICS—M. L. Yeater—*Academic Press*, 303 p., illus., \$12. Reviews the recent results in the field of neutron physics research, such as studies of neutron sections up to the kilovolt region, crystal lattice dynamics, neutron transport, and new tools of neutron spectrometry.

ORCHIDS—John W. Blowers—*St. Martins*, 129 p., photographs, \$4.95. A professional guide for the amateur who wants to start an orchid collection.

PEENEMUNDE TO CANAVERAL—Dieter K. Huzel, introd. by Wernher von Braun—*Prentice-Hall*, 247 p., photographs, \$4.95. A first-hand account of the men who developed the V-2 rocket and how they came to the United States.

PHYSICS: A Basic Science—Frank L. Verwiebe, Gordon E. Van Hooft and Robert R. Suchy—*Van Nostrand*, 4th ed., 688 p., illus., \$5.95. Textbook utilizes modern approaches to the teaching of the basic concepts of physics, with diagrams, problems and experiments.

PRIMROSES—Roy Genders—*St. Martins*, 171 p., photographs, \$4.75. On the cultivation of primroses in the garden and in the home.

PRINCIPLES OF RADIOISOTOPE METHODOLOGY—Grafton D. Chase and Joseph L. Rabinowitz—*Burgess*, 2nd ed., 372 p., illus., \$6. Enlarged revision of text on basic criteria and procedures for carrying out experiments with properties of radiation, detection and measurement, nuclear analysis, and radioisotopes in chemistry.

PROJECT: GENIUS—William Hayes—*Athenaeum*, 135 p., illus. by author, \$3.25. A humorous, readable book about science clubs and fairs, proves earth is flat, then round, and why the first error.

THE PSYCHOANALYTIC STUDY OF SOCIETY, VOL. II—Warner Muenstenberger and Sidney Axelrad, Eds.—*Int. Univ. Press*, 317 p., \$7.50. Includes studies of bereavement reaction, of the creative process, and of daughters who tend their fathers.

ROMAN SCIENCE: Origins, Development and Influence to the Later Middle Ages—William H. Stahl—*Univ. of Wis. Press*, 308 p., \$6.50. Addressed to readers interested in the intellectual history of Western Europe.

SCANNING TECHNIQUES IN BIOLOGY AND MEDICINE—P. O'B. Montgomery, Ed.—*N. Y. Acad. of Sciences*, Annals, Vol. 97, Art. 2, 197 p., illus., paper, \$5. Subjects discussed range from microsurgery and visible light television to the flying spot interference microscope.

STORIES OF HOAXES IN THE NAME OF SCIENCE—Irving Adler—*Collier Bks.*, 126 p., illus. by Ruth Adler, paper, 95¢. Reprint (1957).

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