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.

ADVANCES IN FOOD RESEARCH, Vol.11—C. O. Chichester, E. M. Mrak and G. F. Stewart, Eds.—Academic Press, 454 p., illus., \$14.50. Review of recent data on the chemistry of protopectin, the chemistry of tea, and enzymc reactions in foods of low moisture content.

THE AFFERENT INNERVATION OF THE HEART—A. Ya. Khabarova, transl. from Russian by Basil Haigh—Consultants, 175 p., illus., \$12.50. Presents the results of the author's histological studies of the afferent nerve supply to the heart, by means of sections stained with methylene blue and the neurofibrillary methods of silver impregnation.

AFRICA IN WORLD POLITICS-Vernon McKay

AFRICA IN WORLD POLITICS—Vernon McKay—Harper, 468 p., \$6.75. An analysis of the nature of Africa's relations with Europe, Asia and the Americas, the impact of the United Nations on Africa, Pan-African movements and U. S. policy in Africa.

THE ARCHITECTURE OF MATTER—Stephen Toulmin and June Goodfield—Harper, 399 p., illus., \$7.50. The physics, chemistry and physiology of matter as it has evolved from the beginnings of science to the findings of cytochemistry of today.

THE ATOM—Sir George Thomson—Oxford Univ. Press, 228 p., illus., paper, \$1.50. Reprint of 6th edition of work first published in 1930.

CHAMPIGNONS TOXIQUES ET HALLUCINOGENES—Roger Heim—Editions N. Boubee (Paris), 327 p., illus., \$8.50. Synthesis of what is known on the history, chemistry, toxic and therapeutic effects of poisonous mushrooms, including detailed analysis of the hallucigenic mushrooms of Mexico and New Guinea. In French language. Guinea. In French language.

CHECK LIST OF BOOKS FOR AN UNDER-GRADUATE PHYSICS LIBRARY—Documentation Research Project of the American Institute of Physics —AIP, 92 p., paper, \$2 Lists 395 titles selected by five out of six institutions, and 1488 additional

COMMUNICATIONS OF THE LUNAR AND PLANETARY LABORATORY, Vol. 1, Nos. 14 to 16—Gerard P. Kuiper, Dir., Barbara Middlehurst, Ed.—Univ. of Ariz, Press, 52 p., paper, \$2.50.

UNITRON ASTRONOMICAL TELESCOPES 50 PAGE **OBSERVER'S** GUIDE

With artificial satellites already launched and With artificial satellites already launched and space travel almost a reality, astronomy has become today's fastest growing hobby. Exploring the skies with a telescope is a relaxing diversion for father and son alike. UNITRON's handbook contains full-page illustrated articles on astronomy, observing, telescopes and accessories. It is of interest to both beginners and advanced amateurs.

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Observing the sun, moon, planets and wonders of the sky • Constellation map • Hints for observers • Glossary of telescope terms . How to choose a telescope . Astrophotography

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Papers on a completely digitized multi-color photometer, photometry of the infrared spectrum of Venus, and infrared stellar spectrometer.

DESIGN WITH OLIMATE: Bioclimatic Approach to Architectural Regionalism—Victor Olgyay with Aladar Olgyay—Princeton Univ. Press, 190 p., illus., \$15. Endeavors to show the influence of climate on building principles, discusses solar control, wind effects, thermal effects of materials and heliothermic planning. fects, the

planning.

DEVELOPMENTS IN THEORETICAL AND APPLIED MECHANICS, Vol. 1—Alvin M. Weinberg and others—Plenum Press, 519 p., illus, \$16. Proceedings of the First Southeastern Conference on Theoretical and Applied Mechanics held at Gatlinburg, Tenn., in 1962.

THE DOUBLEDAY FIRST GUIDE TO BIRDS—Sabra and Heathcote Kimball—Doubleday, 32 p., photographs by authors, \$1.50. Full-color photographs help young bird watchers identify 40 often seen land birds.

THE DOUBLEDAY FIRST QUIDE TO ROCKS
—Dorothy Shuttlesworth—Doubleday, 31 p., illus.
by James Caraway, \$1.50. For the youngest rock
collectors.

EVOLUTION OF NEOTROPICAL CRICETINE RODENTS (MURIDAE) with Special Reference to the Phyllotine Group—Philip Hreshkovitz—Chicago Nat. Hist. Mus., 524 p., illus., \$12.50. A detailed study based on investigation of approximately 2500 specimens of phyllotine rodents in the pastures of Chile and western Argentina.

FERRITES AT MICROWAVE FREQUENCIES

—A. G. Gurevich, transl. from Russian by A. Tybulewicz—Consultants, 329 p., \$17.50. Comprehensive
treatment of experimental and theoretical data on the
behavior of ferrites in the range of ultra-high frequencies.

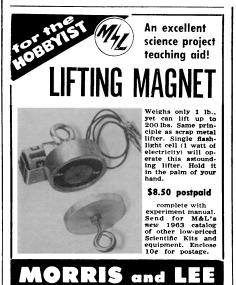
FIELD BOOK OF FRESH-WATER FISHES OF NORTH AMERICA—Ray Schrenkeisen; J. T. Nichols and F. R. LaMonte, Eds.—Putnam, 312 p., illus., \$4.95. Guide to the important fresh-water fishes north of Mexico. Reissue of standard guide published in 1938.

QUIDE TO AMERICAN EDUCATIONAL DI-RECTORIES: A Guide to the Major Educational Directories of the United States, 1963—Bernard Klein—Klein & Co., 322 p., \$20. Lists some 1,300 entries, of current, up-to-date directories, alphabeti-cally arranged by title under subject categories.

A GUIDE TO PROGRAMMED INSTRUCTION
—Jerome P. Lysaught and Clarence M. Williams—
Wiley, 180 p., diagrams, \$3.95. Based on experience
with teaching a college-level course, this text attempts
to serve as a blueprint of the techniques of programming, their origins and fundamentals.

HORTICULTURAL SCIENCE — Jules Janick Freeman, 472 p., illus., \$8.50. Textbook on biology, technology and industry of horticulture.

INDUCTANCE CALCULATIONS: Working Formulas and Tables—Frederick W. Grover—Dover, 286 p., paper, \$1.85. Unabridged republication of work first published in 1946.



Dept. NL-3 294 ELM STREET, Buffalo 3, N. Y.

AN INTRODUCTION TO MATHEMATICAL PROBABILITY — Julian Lowell Coolidge — Dover, 214 p., paper, \$1.35. Reprint (1925).

INTRODUCTION TO NONLINEAR DIFFERENTIAL AND INTEGRAL EQUATIONS—Harold T. Davis—Dover, 566 p., illus., paper, \$2. Unabridged reprint of work first published by the U. S. Atomic Energy Commission in 1960

LEUKEMIA: Key to the Cancer Puzzle?—Pat Mc-Grady—Public Affairs Committee, 20 p., paper, 25¢ direct to publisher, 22 E. 38th St., New York 16, N. Y. Brings the general reader up-to-date on research on cancer of the blood.

LIGHT AND COLOR—Frederick Healey—Day, 48 p., illus. by Patricia Hamilton, \$1.95. A first reader about simple scientific facts.

MAGNETISM: What It Is and How Man Has Used It from Ancient Times to the Present—Raymond Holden—Golden Press, 54 p., illus. by Weimer Pursell, 69¢. Informative and easy to read.

MATHEMATICS: The Man-made Universe—Sherman K. Stein—Freeman, 316 p., diagrams, \$6.50. An introduction to the spirit of mathematics, the principal areas of modern mathematics, on the undergraduate level.

THE MEASURE OF THE MOON—Ralph B. Baldwin—Univ. of Chicago Press, 488 p., photographs, diagrams, \$13.50. Presents the meaning of lunar surface markings, prefaced by a detailed analysis of terrestrial meteoritic craters. The work is a carefully documented sequel to "The Face of the Moon," published in 1949.

MEDICAL SCHOOLS AND THE CHANGING TIMES: Nine Case Reports on Experimentation in Medical Education—Peter V. Lee—Assn. of Am. Medical Colleges, 90 p., \$2. These reports represent significant trends in medical education.

THE MIGRATIONS OF BIRDS—Jean Dorst, transl. from French by Constance D. Sherman. foreword by Roger Tory Peterson—Houghton, 476 p., maps, diagrams, bibliography, \$6.75. A valuable reference work giving up-to-date account of what is known about modes of bird migration, physiological stimulus of seasonal flight and orientation of birds.

MODERN OPERATIONAL CALCULUS: With Applications in Technical Mathematics—N. W. McLachlan—Dover, 218 p., paper, \$1.75. Revised version of work first published in 1948.

THE OSCILLOSCOPE — George Zwick — Gernsback Lib., 2nd ed., 224 p., diagrams, paper, \$3.65. An instruction manual, tells what each scope component does and why, with experiments in application.

ponent does and why, with experiments in application.

PARENTS' GUIDE TO CHILDREN'S VISION—
James R. Gregg—Public Affairs Committee. 20 p., illus. by Alexander Dobkin, paper, 25¢ direct to publisher, 22 E. 38th St., New York 16, N. Y.

THE PEOPLE LOOK AT TELEVISION: A Study of Audience Attitudes—Gary A. Steiner—Knopf, 422 p., \$7.95. A comprehensive study and analysis of how the U. S. viewer feels about the medium and the uses he makes of it.

PROBABILITIES AND LIFE — Emile Borel, transl, from French by Maurice Baudin—Dover, 87 p. paper, \$1. New English translation of the 4th edition in nontechnical language, treats probability in everyday situations

PROGRESS IN CONTROL ENGINEERING. Vol. 1—R. H. Macmillan, T. J. Higgins and P. Naslin, Eds.—Academic Press, 260 p., diagrams, \$10. A series of critical reviews on subjects such as time-lag systems, the governing of diesel engines, and automatic control by pneumatics.

PSYCHICAL RESEARCH TODAY—D. J. West—Penguin, rev. ed., 224 p., illus., paper, 85¢. Reviews developments in experimental research in ESP.

RADIATION EFFECTS ON ORGANIC MATERIALS—Robert O. Bolt and James G. Carroll, Eds.—Academic Press, 576 p., illus., \$13.50. Covers the alterations induced by nuclear radiation in properties of a wide range of organic materials such as polymers, lubricants and coatings.

THE STORY OF YOUR GLANDS—Edith Lucie Weart—Coward-McCann, 70 p., illus, by Jan Fairservis, \$3. Gives boys and girls an idea of the network of glands and their functions.

TELESCOPES AND OBSERVATORIES—Patrick Moore—Day, 48 p., illus. by Clifford Bayly and Susan Benson, \$1.95. A book on science for young childre

THE WONDERS OF GEOLOGY—Henry Hill Collins, Jr.—Putnam, 127 p., illus. \$2.50. Factual reading for boys and girls.

YEARBOOK OF ASTRONOMY, 1963—J. G. Porter, Ed., with Patrick Moore—Norton, 214 p., illus., \$3.50. Star charts, monthly notes on astronomical events in 1963 of interest to amateur astronomers, and articles on eyepieces, Mars, meteorites and life, and the run-off observatory.

YOUR EARS—Irving and Ruth Adler—Day, 48 p., illus. by Peggy Adler Walsh, \$2. Explains to children the reasons why and how we hear.

YOUR EYES—Irving and Ruth Adler—Day, 48 p., illus. by Ruth Adler, \$2. Explains in simple, factual language how our eyes function.

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