

Books of the Week

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THE BEHAVIOUR AND SOCIAL LIFE OF HONEYBEES—C. R. Ribbands—Dover, 352 p., 9 plates, illus., paper, \$2. Unabridged republication of work first published by the Bee Research Association, Ltd., in 1953.

CHEMICAL BONDING—Audrey L. Companion—McGraw, 155 p., illus., \$4.50. Useful for supplementary reading in advanced inorganic chemistry courses.

CLASSIC SPEECHES: Words That Shook the World—Richard Crosscup, Ed.—Philosophical Lib., 496 p., \$10. Anthology of parliamentary, forensic or commemorative orations, lectures and sermons addressing themselves effectively to some contemporary public issues of importance.

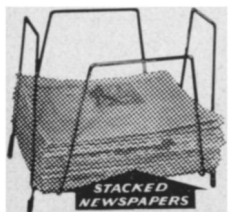
CONTRIBUTION TO THE STUDY OF THE STRUCTURE OF THE IONOSPHERE—Marcel Nicolet—NASA (OTS), 179 p., paper, \$3. Translation of the author's important thesis first published at the University of Brussels in 1945.

A DICTIONARY OF PSYCHOLOGY—James Dreyer, rev. by Harvey Wallerstein—Penguin Bks., rev. ed., 320 p., paper, \$1.25. A comprehensive dictionary for layman and student.

DISCIPLINES AND TECHNIQUES OF SYSTEMS CONTROL—John Peschon, Ed.—Blaisdell Pub. Co., 547 p., diagrams, \$12.50. Proceedings attempt to introduce the reader to the mathematical terminology and to the concepts required for optimum control of complex processes.

EXPLORATION OF THE UNIVERSE: The Story of Astronomy—H. C. King—New Am. Lib., 335 p., 17 plates, illus., paper, 75¢. A new original publication, charts the development of man's knowledge of the cosmic universe from the first astrolabe to the discoveries made possible by the radio telescope.

FUNDAMENTALS OF ROCKETS, MISSILES AND SPACECRAFT—Marvin Hobbs—Rider, 275 p., illus., paper, \$3.95. Basic theory and application with appendices on the use of mathematics in simple rocket design and the status of amateur rocketry.



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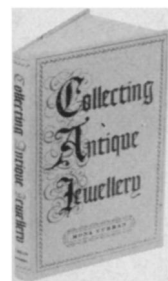
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THE INSECT WORLD—Walter Linsenmaier—Odyssey Press, 47 p., illus. by author, 95¢. Compact and colorful little book introducing the reader to the nature and habits of insects.

INTRODUCTION TO p-ADIC NUMBERS AND VALUATION THEORY—George Bachman—Academic Press, 173 p., paper, \$3.45. The book is meant to serve as an introduction to valuation theory.

JOURNEY TO ALPHA CENTAURI—John W. Macevry—Macmillan, 256 p., \$5.95. Describes the astronomer-author's suggested method called "generation travel," the technical and psychological difficulties and the hazards involved in order that the eighth generation of space travelers may reach the goal of this "close" star.

LIFE HISTORIES OF NORTH AMERICAN THRUSHES, KINGLETS AND THEIR ALLIES—Arthur Cleveland Bent—Dover, 452 p., 51 plates, paper, \$2.75. Unabridged republication (1949).

THE LIFE OF THE CELL: Its Nature, Origin and Development—J. A. V. Butler—Basic Books, 167 p., photographs, diagrams, \$4.50. In nontechnical language presents an up-to-date picture of man's recent progress toward understanding the structure and organization of the cell, DNA, mutations, how large organisms are built, the brain and life in the universe.

LIFE SCIENCE: A Modern Course—John M. Mason and Ruth T. Peters—Van Nostrand, 390 p., illus., \$4.60. This course seeks to prepare secondary school students for the challenging new science courses ahead of them.

THE LIFELINE OF AMERICA: Development of the Food Industry—Edward C. Hampe, Jr. and Merle Wittenberg—McGraw, 390 p., photographs, diagrams, \$6.95. Describes the development of food processing, scientific food research, transportation connected with the food industry and the U.S. distribution system.

THE LIVES OF DESERT ANIMALS IN JOSHUA TREE NATIONAL MONUMENT—Alden H. Miller and Robert C. Stebbins—Univ. of Calif. Press, 452 p., illus. by Gene M. Christman, \$10. This volume is the result of continuous observation from 1945 to 1960 of the way desert animals have ordered their lives, balancing their activities with their physiologic requirements.

MIBROBES—Andre Boivin, rev. by Robert Tulaane, transl. from French by Gordon Duncan—Walker, 112 p., diagrams, \$3.50. Revised sections deal with subjects in which progress has been especially rapid since the book was first published in 1956.

NEBRASKA SYMPOSIUM ON MOTIVATION, 1964—David Levine, Ed.—Univ. of Neb. Press, 284 p., diagrams, \$5.50, paper, \$2.50. Six research papers discussing such subjects as motivational relevance of hypnosis, psychological complexity, and manipulating crime psychologically.

A NEW DICTIONARY OF BIRDS—Sir A. Landsborough Thomson, Ed.; prefaces by Austin L. Rand and R. E. Moreau—McGraw, 928 p., photographs, color plates, line drawings, maps, \$17.50. An important contribution to ornithology, this comprehensive reference work treats in alphabetical order the various bird groups, bird physiology, physical characteristics of birds and their behavior, and especially thoroughly covers American birds.

NOBEL LECTURES INCLUDING PRESENTATION SPEECHES AND LAUREATES' BIOGRAPHIES: Chemistry, Vol. III, 1942-1962—Foreword by Arne Tiselius, Pres., Nobel Foundation—Elsevier Pub. Co. (N.Y.), 712 p., photographs, diagrams, set of three vols. (1901-1962), \$85. Arranged in chronological order, these presentation addresses in English language give the Laureates' own accounts of the long years of preparation and creative efforts which led up to their celebrated achievements.

THE OPEN SEA: Its Natural History, Part I: The World of Plankton—Sir Alister Hardy—Houghton, 322 p., photographs, 442 water-colors, line drawings and maps by author, \$12.50. Deals with the microscopic organisms that provide the fundamental food supply of the oceans.

POPULATION: The Vital Revolution—Ronald Freedman, Ed.—Doubleday, 274 p., paper, \$1.25. Nineteen analytical essays on important world population trends, in nontechnical language.

PRESIDENTIAL SUCCESSION AND INABILITY: Statement on National Policy—Research and Policy Committee of CED—Committee for Economic Development, 41 p., paper, 50¢ direct to publisher, 711 5th Ave., New York 22, N.Y. Proposes new provisions for quickly transferring the powers of the Presidency in the event of death or inability of the President, and to assure that U.S. is never without Vice President.

PROGRAMMED LEARNING: A Bibliography of Programs and Presentation Devices—Carl H. Hendershot—Hendershot, 3rd ed., multipaged, quarterly, incl. all 1964 supplements, indexed, \$8 direct to publisher, 4114 Ridgewood Dr., Bay City, Mich. Lists programs by subject and by publisher.

QUADRATIC FORMS AND MATRICES: An Introductory Approach—N. V. Yefimov, transl. from Russian and edited by A. Shenitzer—Academic Press, 164 p., paper, \$2.45. On the general theory of quadratic curves and surfaces, linear transformations and matrices.

A QUASI-GLOBAL PRESENTATION OF TIROS III RADIATION DATA—Lewis J. Allison, Thomas I. Gray, Jr. and Guenter Warnecke—NASA (GPO), 17" x 22", 23 p., maps in color, paper, \$2. Prepared by the Goddard Space Flight Center, presents in large format a worldwide radiation map, and discusses in detail the large scale synoptic application of the infrared data.

RACE: A Study in Superstition—Jacques Barzun, new preface by author—Harper, rev. ed., 263 p., \$5. Revised edition of book published in 1937, traces race theorizing during the past 180 years and analyzes what the various theories have in common.

RARE AND EXOTIC BIRDS—Robert Cushman Murphy—Odyssey Press, 47 p., photographs in color by Arthur Singer, 95¢. Pocket size glimpse of a colorful variety of birds.

RESEARCH ON FAILURE FREE SYSTEMS—Westinghouse Electric Corporation—NASA (OTS), multi-paged, diagrams, paper, \$3.50. Summary of research and recommendations concerning redundant systems, adaptive restoring circuits and advanced self-repair techniques.

RESEARCH OPPORTUNITIES: July 1965 to June 1966—Jerold L. Roschwalb, Asst. Dir.—Smithsonian Institution, Div. of Educ. and Training, 65 p., illus., paper, single copies free upon request from graduate students and staff members of educational institutions direct to publisher, Room 414, Smithsonian Inst. Bldg., Washington, D.C. 20560. Brochure describes new programs providing financial support for cooperative research projects in anthropology, biology and natural history, fine arts, history and physical sciences.

SCIENCE AS A CULTURAL FORCE—Harry Woolf, Ed.—Johns Hopkins Press, 110 p., \$3.95. Four essays concerned with the public life of scientific activities and the meaning and nature of scientific thought. The writers are James R. Killian, Jr., Jerome B. Wiesner, Michael Polanyi and Gerald Holton.

THE STORY OF ANIMALS: Mammals around the World—Gaylord Johnson—Harvey House, 2nd ed., 120 p., illus. by Don Bolognese, \$3.50. A guidebook for young naturalists.

THE STORY OF PRINTING: From Wood Blocks to Electronics—Irving B. Simon, foreword by Eugene M. Ettenberg—Harvey House, 128 p., illus. by Charles E. Pont, \$3.50. For boys and girls.

TEMPERATURES VERY LOW AND VERY HIGH—Mark W. Zemansky—Van Nostrand, 127 p., photographs, diagrams, paper, \$1.50. Published by the Commission on College Physics, this text offers the serious student deeper understanding of how temperature is measured, and how extremes of temperatures are produced and utilized.

TIME AND THE RIVER FLOWING: Grand Canyon—Francis Leydet; David Brower, Ed.—Sierra Club, 176 p., photographs in color, map, \$25. A magnificent record of geological evolution where water, time and light have been at work creating unparalleled natural beauty. This carefully produced book is a most eloquent plea for preserving this wilderness for future generations.

WESTERN FOREST TREES: A Guide to the Identification of Trees and Woods for Students, Teachers, Farmers and Woodsmen—James Berthold Berry—Dover, 212 p., photographs, drawings by Mary E. Eaton, paper, \$1.35. Reprint (1924).

YEAR 1965 ENCYCLOPEDIA NEWS ANNUAL: Events of the Year 1964—Foreword by Dean Rusk—Hammond, 292 p., 800 photographs, indexed, \$10. A review of 3,000 subjects covered in word and picture by the U.S. daily news in 1964.

YOU CAN WIN A SCHOLARSHIP—Samuel C. Brownstein and Mitchell Weiner—Barron's Educ. Series, 3rd rev. ed., 562 p., illus., paper, \$3.95. Describes scholarship opportunities from private, state, and federal sources, and tells how to prepare for the various examinations.

• Science News Letter, 87:44 January 16, 1965

Do You Know?

The populations of Asia, Africa and Latin America are expected to increase by 900 million in the next 20 years.

There are 30,000 craters on the side of the moon that faces earth.

The invisible flames of hydrogen fires can be "seen" by a warning system that detects their infrared radiations and pictures them on television monitors.

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