

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.

AIRCRAFT WEIGHT & BALANCE CONTROL—Henri G. D'Estout—*Aero Pubs.*, 3rd ed., 128 p., illus., paper, \$3.25. Includes weighing and loading procedures for light airplanes, transports, jets and helicopters.

ALASKA AND SCIENCE EXPERIENCES—Matthew F. Vessel and Herbert H. Wong—*Fearon Pubs.*, 14 p., illus., 75¢. Among other things explains glaciers, tundra, the effect of long days and nights, and the effect of cold on living things.

THE ANALYSIS OF MIXTURES OF VOLATILE SUBSTANCES—Emil F. Williams, Ed.—*N. Y. Acad. of Sciences, Annals*, Vol. 72, Art. 13, 234 p., illus., paper, \$4. Monograph discussing gas chromatography as a part of chemical plant process engineering.

ANIMAL CAMOUFLAGE—Adolf Portmann, transl. from German by A. J. Pomerans—*Univ. of Mich. Press*, 111 p., illus., \$4.50. Of the varied ways in which animals by shape or coloring practice camouflage.

CALL THE DOCTOR: A Social History of Medical Men—E. S. Turner—*St. Martins*, 320 p., illus., \$3.95. A history of British medical practitioners from the late Middle Ages to the welfare state.

CAREERS IN SCIENCE TEACHING—The Future Scientists of America Foundation—*Nat. Science Teachers Assn*, 18 p., illus., paper, single copies free upon request direct to publisher, 1201 16th St., N.W., Washington 6, D. C.

THE CARIBBEAN: British, Dutch, French, United States—A. Curtis Wilgus, Ed.—*Univ. of Fla. Press*, 331 p., \$5.50. Volume VIII of the Caribbean Conference Series. Educational, economic and population trends in the Caribbean area.

COMMON SENSE AND NUCLEAR WARFARE—Bertrand Russell—*Simon & Schuster*, 92 p., \$2.50. Lord Russell's plan for achieving peace in ways which should be equally acceptable to Communist Nations, to NATO Nations and to uncommitted Nations.

THE DESIGN OF PHYSICS RESEARCH LABORATORIES—Symposium of The Institute of Physics, London—*Reinhold*, 108 p., illus., \$4.50. Of

value to all concerned with the design of science laboratories.

DESIGN OF TRANSISTORIZED CIRCUITS FOR DIGITAL COMPUTERS—Abraham I. Pressman—*Rider*, 316 p., \$9.95. Text for the engineer concerned with the miniaturization of digital computers, emphasizing "worst-case design" techniques.

A DICTIONARY OF ENGLISH SYNONYMS & SYNONYMOUS EXPRESSIONS—Richard Soule, Alfred Dwight Sheffield, Ed., foreword by Edward Weeks—*Little*, 4th ed., 614 p., \$4.95. First published 90 years ago, still a standard work in its field.

A DICTIONARY OF NAMED EFFECTS AND LAWS: In Chemistry, Physics and Mathematics—D. W. G. Ballentyne and L. E. Q. Walker—*Macmillan*, 205 p., \$6. To facilitate quick usage, entries are in alphabetical order, from Abbe's Sine Condition to Weber.

DIFFERENTIAL FERTILITY IN BRAZIL—J. V. D. Saunders—*Univ. of Fla. Press*, 90 p., maps, \$3.50. Demographic analysis of the various segments of Brazil's present population.

EDTA TITRATIONS: An Introduction to Theory and Practice—H. A. Flaschka—*Pergamon*, 138 p., \$6.50. Reference work for analytical laboratories and teachers.

ENDOCRINE CONTROL IN CRUSTACEANS—David B. Carlisle and Sir Francis Knowles—*Cambridge Univ. Press*, 120 p., illus., \$3.75. Monograph on the way in which certain body functions in crustaceans are controlled by chemical substances in the blood stream.

FOUNDATIONS OF MATHEMATICS—Carl H. Denbow and Victor Goedicke—*Harper*, 620 p., \$6. Comprehensive text for one-year course of college mathematics.

THE FOURIER INTEGRAL AND CERTAIN OF ITS APPLICATIONS—Norbert Wiener—*Dover*, new ed., 201 p., paper, \$1.50. Reprint of 1933 edition which was an elaboration of 15-lecture course given at the University of Cambridge.

FREE-LIVING NEMATODES AND OTHER SMALL INVERTEBRATES OF PUGET SOUND BEACHES—Wolfgang Wieser—*Univ. of Wash. Press*, 179 p., illus., paper, \$4. First intensive study of nematodes in any region of the U. S.

THE GIFTED GROUP AT MID-LIFE: Thirty-five Years' Followup of the Superior Child—Lewis M. Terman and Melita H. Oden—*Stanford Univ. Press*, 187 p., \$4.50. This fifth volume of GENETIC STUDIES OF GENIUS answers the question "Have the gifted group in mid-life fulfilled the promise of their youth?"

A GUIDE TO FIELD BIOLOGY—John Sankey—*Longmans*, 166 p., illus., \$2.50. Guide for the scientific study of plants and animals in the field, for boys and girls and the amateur naturalist.

A HISTORY OF WESTERN TECHNOLOGY—Friedrich Klemm, transl. from German by Dorothea Waley Singer—*Scribner*, 401 p., illus., \$6.50. Reveals the forces which guided the development of technical advance by making extensive use of contemporary documents.

HOW DO YOUR CHILDREN GROW?—H. Gerton Morgan and others, foreword by Neva Ross—*Assn. for Childhood Educ.*, 32 p., paper, 75¢. On the assumptions and facts and the interrelationships of learning in school, home and community.

INTRODUCTION TO NUCLEAR POWER COSTS—Arnold Rochman—*Simmons-Boardman*, 50 p.,

paper, \$2.95. Monograph, analyzing the factors which make up the total cost of nuclear power.

JET PROPULSION ENGINES—O. E. Lancaster, Ed., foreword by Theodore von Karman—*Princeton Univ. Press*, 799 p., illus., \$20. After short historical survey, the turbojet, turboprop, ramjet, the intermittent jets, and the liquid and solid propellant rocket engines are examined.

THE JOURNALS OF DANIEL NOBLE JOHNSON (1822-1863) UNITED STATES NAVY—Mendel L. Peterson, Ed.—*Smithsonian Inst.*, 268 p., illus., \$4. Journal of a "cruise on the Brazils" and notes while on board the U. S. Schooner Enterprise.

JOURNEY INTO SPACE—Matthew F. Vessel and Herbert H. Wong—*Fearon Publishers*, 14 p., illus., paper, 75¢. Experiments explaining elements of rocket thrust, centrifugal force and gravity, weightlessness and space biology in school.

KOALA BEAR'S WALKABOUT—Anita Hewett—*Sterling*, 32 p., illus. by Anne Marie Jaus, \$2.50. Picture book acquainting young readers with the Australian Koala Bear.

THE LOGIC OF DISCOVERY—Karl R. Popper, transl. from German by author—*Basic Bks.*, 480 p., \$7.50. A scholarly presentation of the logical character of science, doing justice to the liberating effect of the Einsteinian revolution in physics.

MATERIALS FOR ROCKETS AND MISSILES—Robert G. Frank and William F. Zimmerman—*Macmillan*, 124 p., illus., \$4.50. Source of engineering data on the lightweight, high-temperature materials which are now available for rockets and missiles.

MORE ABOUT READING—Margaret Rasmussen, Ed.—*Assn for Childhood Educ.*, 32 p., paper, 50¢. Collection of articles on individualized and self-selection reading.

MOST-OFTEN-NEEDED 1959 RADIO DIAGRAMS AND SERVICING INFORMATION—M. N. Beitman, Ed.—*Supreme Publications*, 192 p., illus., paper, \$2.50. Circuit diagrams, alignment, and other helpful information.

MYOKINETIC PSYCHODIAGNOSIS: M.K.P.—Emilio Mira Y Lopez, transl. from French by Mrs. Jaques Dubois, foreword by Gordon W. Allport—*Logos Press*, 186 p., illus., \$6.75. M.K.P. is a psychological test which involves the analysis of graphic expression to indicate temperamental and character tendencies.

NATIONAL SCIENCE FOUNDATION PROGRAMS FOR EDUCATION IN THE SCIENCES—Alan T. Waterman, Dir. and Harry C. Kelly, Asst. Dir.—*Nat. Science Foundation*, 28 p., illus., paper, free upon request direct to publisher, Washington 25, D. C. Describes fellowships, institutes, course-content improvement and scientific manpower.

NEW WORLD OF CHEMISTRY—Bernard Jaffe—*Silver Burdett*, rev. ed., 678 p., illus., \$4.96. High school chemistry textbook brought up to date.

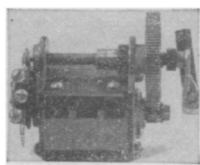
OUR LANGUAGE AND OUR WORLD—S. I. Hayakawa, Ed.—*Harper*, 402 p., illus. by William H. Schneider, \$5. Selections from ETC.: A Review of General Semantics, 1953-1958.

PHEASANT BREEDING AND CARE—Jean Delacour—*All-Pets*, rev. ed., 123 p., illus., \$4. Brought up to date, with chapter on pheasants on shooting preserves added.

PIGS, TAME AND WILD—Olive L. Earle—*Morrow*, 64 p., illus. by author, \$2.50. Handsomely illustrated with much information in simple language.

PINEAPPLE TOWN, HAWAII—Edward Norbeck—*Univ. of Calif. Press*, 159 p., illus., \$4. An anthropologist's account of a company town of mixed racial and cultural heritage, of interest to anthropologists, sociologists and the general reader.

PLANET EARTH—Karl Stumpff, transl. from



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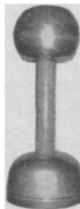
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German by Philip Wayne—*Univ. of Mich. Press*, 191 p., illus., \$5. About our planet, its movements, structure, size and shape, and its relation to the rest of the universe.

THE PSYCHIATRIC AIDE: A Textbook of Patient Care—Alice M. Robinson, foreword by Walter E. Barton—*Lippincott*, 2nd ed., 200 p., illus. by author, \$3.50. Concerns itself primarily with the relationships between people and the attitudes that are essential tools in modern psychiatric treatment.

RUSSIAN-ENGLISH BIRD GLOSSARY—J. MUNRO MacLennan—*Dept. of Northern Affairs & Nat. Resources (Queen's Printer, Ottawa)*, 94 p., \$2.50. Of value to translators, biologists and students.

SATELLITES, SCIENCE, AND THE PUBLIC—*Survey Research Center, Univ. of Mich.*, 57 p., paper, \$1. Findings of a National Survey on the Public Impact of Early Satellite Launchings, made for the National Association of Science Writers.

SCIENCE NEWS 51—Archie and Nan Clow. Eds.—*Penguin*, 128 p., illus., paper, 65¢. Articles on liquid helium, cacao, electroplating, high speed photography, and others.

SCIENCE PROGRAM, 86TH CONGRESS—Subcommittee on Reorganization and International Organizations, Hubert H. Humphrey, Chmn.—*Committee on Govt. Operations, U. S. Senate*, 172 p., paper, free upon request direct to Committee, New Senate Bldg., Washington 25, D. C.

A SCIENCE READER—Lawrence V. Ryan, Ed.—*Rinehart*, 308 p., paper, \$1.95. Text for courses in scientific writing.

THE SURGEON'S TALE: The Story of Modern Surgery—Robert G. Richardson—*Scribner*, 278 p., illus., \$4.95. History of the advances of surgery told by a surgeon for the general as well as the professional reader.

TRANSISTOR PHYSICS AND CIRCUITS—Robert L. Riddle and Marlin P. Ristenbatt—*Prentice-Hall*, 428 p., \$10. Non-mathematical treatment of the operation and design of transistor circuits, requiring only high school trigonometry and algebra.

TRANSLATIONS OF RUSSIAN GAME REPORTS, Vol. 3: Arctic and Red Foxes, 1951-55—Canadian Wildlife Service—*Dept. of Northern Affairs and National Resources (Queen's Printer, Ottawa)*, 214 p. paper, \$1.

THE WEASEL FAMILY—Charles L. Ripper—*Morrow*, 64 p., illus. by author, \$2.50. Introduces children to the weasel, the skunk, the mink, the otter, the marten, the wolverine and the badger.

WHAT IS SPACE?—Matthew F. Vessel and Herbert H. Wong—*Fearon Publishers*, 14 p., illus., paper, 75¢. Definition and demonstrations of space terms, chart of earth's atmosphere, and other material useful to the science teacher.

WHOOPING CRANE—Robert M. McClung—*Morrow*, 64 p., illus. by Lloyd Sanford, \$2.50. The story of the rare whoopers told for children. *Science News Letter*, April 18, 1959

Do You Know

Light fog, clouds or thin clothing do not filter burning sun rays.

Hard and stale bread is not caused by loss of moisture, but by the aging of part of the starch system.

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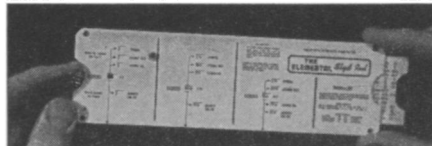
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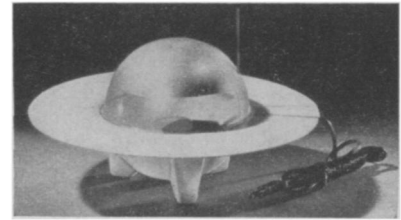


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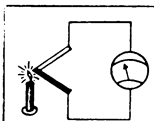
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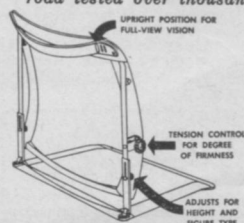
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