

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.

ALEXANDER VON HUMBOLDT—L. Kellner—Oxford Univ. Press, 247 p., illus., \$5.75. Biography of the scientist and explorer (1769-1859), known for his contributions to the study of geophysics and physical geography in their early stages.

BASIC MECHANISMS IN ANIMAL VIRUS BIOLOGY, Vol XXVII of the Cold Spring Harbor Symposia on Quantitative Biology—Leonora Frisch, Ed.—Biological Lab., L. I. Biological Assn., 535 p., illus., \$12. Report on advances in the study of the basic biology of animal viruses with the help of the tools and methodology of modern molecular biology.

CAUSALITY: The Place of the Causal Principle in Modern Science—World Pub. Co., 394 p., diagrams, paper, \$2.25. Reprint (1959), including author's 1961 reply to criticism.

CHAMBERS'S BIOGRAPHICAL DICTIONARY—J. O. Thorne, Ed.—St. Martins, new ed., 1,432 p., \$15. Biographical data on 15,000 famous men and women, from Aagesen, the 12th century Danish historian, to Zworykin, Russian-born American physicist. This major revision presents both a reevaluation of earlier data and many new additions.

CHEMICAL BONDING AND THE GEOMETRY OF MOLECULES—George E. Ryschewitsch—Reinhold, 116 p., diagrams, paper, \$1.95. An exposition of modern thoughts on structural chemistry, on the undergraduate level.

THE COLLIER QUICK AND EASY GUIDE TO ELECTRONICS—Jesse Dilson—Collier, 187 p., diagrams, paper, \$1.50. May serve as a simple introduction to a possible career in electronics, each chapter concludes with a glossary explaining the technical terms.

THE COLLIER QUICK AND EASY GUIDE TO PHYSICAL FITNESS—Justus J. Schifferes—Collier, 96 p., illus., paper, \$1.50. Authoritative facts about proper food, exercises, rest, health hazards, mental health and grooming.

CONFERENCE ON CLEAN SURFACES with Supplement: Surface Phenomena in Semiconductors (Symposium)—F. R. Eirich, Ed.—N. Y. Acad. of Sciences, Annals, Vol. 101, Art. 3, 431 p., illus., paper, \$6. The first paper deals with field emission microscopy of clean surfaces with electrons and positive ions, by Erwin W. Muller.

CONJECTURES AND REFUTATIONS: The Growth of Scientific Knowledge—Karl R. Popper—Basic Bks., 412 p., \$10. Philosophical essays on the thesis that man can learn from his mistakes, and that certain theories highly resistant to criticism together with reports of their tests, may be described as "the science" of that time.

CRYSTAL ORIENTATION MANUAL—Elizabeth A. Wood—Columbia Univ. Press, 75 p., illus., ring-bound, \$4. Step-by-step procedure for orienting crystals for purposes of physical measurement and experimentation.

CUSTOMS AND HOLIDAYS AROUND THE WORLD—Lavinia Dobler and Rev. Howard V. Harper—Fleet, 186 p., illus. by Josephine Little, \$4.50. Takes children through the seasons and acquaints them with the world's holidays, from the Muslim Basanth, first day of spring, to Leap Year.

A DICTIONARY OF AMERICAN SOCIAL FORM—Louis Filler—Philosophical Lib., 854 p., \$15. Brings together a vocabulary of concepts and data in an attempt to provide a synthesis of Ameri-

can reform efforts, issues and personalities, from early American history to the present.

THE DREAMS OF REASON: Science and Utopias—Rene Dubos—Columbia Univ. Press, 167 p., illus., paper, \$1.75. Reprint (1961), analyzes the relationship between the scientific community and the lay public.

EVOLUTION OF STARS AND GALAXIES—Walter Baade; Cecilia Payne-Gaposchkin, Ed.—Harvard Univ. Press, 321 p., diagrams, \$6.75. Based on series of lectures given by the late Dr. Baade at Harvard Observatory in the fall of 1958.

FACE OF NORTH AMERICA: The Natural History of a Continent—Peter Farb—Harper, 316 p., illus. by Jerome Connolly, photographs, \$6.50. Presents the character of the varied regional landscape, and explains the forces of nature at work.

THE FIRST BOOK OF WEEDS—Barbara L. Beck—Watts, F., 65 p., illus. by Page Cary, \$1.95. Informs children about various weeds, where to find them and how to recognize them.

THE HUMAN BODY: Its Structure and Operation—Isaac Asimov—Houghton, 340 p., illus. by Anthony Ravielli, \$5.95. Homo sapiens, his anatomy, physiology and biology in non-technical terms, giving specialized terms with pronunciation and derivation.

HUMAN ECOLOGY AND SUSCEPTIBILITY TO THE CHEMICAL ENVIRONMENT—Theron G. Randolph—Thomas, C. C., 148 p., illus., \$6.50. Clinically oriented, author deals with man as a biological unit, and with his adaptation to a chemically contaminated world.

HUMAN INTERSEX—David J. B. Ashley, foreword by R. Winston Evans—Williams & Wilkins, 357 p., \$8.50. Considers the phylogenetic, ontogenetic, endocrine and cytogenetical aspects of the evolution of sex, together with an evaluation and classification of anomalies.

LAW IN A SCIENTIFIC AGE—Edwin W. Patterson—Columbia Univ. Press, 87 p., \$3.50. Three lectures, dealing with law and technological change, analyzing the ideal effects of science upon law, and the results of efforts to apply scientific method in law.

MANUAL OF WATER FLUORIDATION PRACTICE—Franz J. Maier—McGraw, 234 p., illus., \$8.50. Practical information to enable community officials, engineers and responsible citizens to choose the most efficient and economical fluoridation system for their particular water supply.

THE MICROBIAL WORLD—Roger Y. Stanier, Michael Doudoroff and Edward A. Adelberg—Prentice-Hall, 2nd ed., 753 p., illus., \$13.35. An introduction to the biology of micro-organisms, with special emphasis on the properties of bacteria.

ON THE PREVENTION OF WAR—John Strachey—St. Martins, 334 p., \$5.95. Former British Secretary of State for War analyzes the nature of nuclear war in its military, political, economic and psychological aspects, and outlines the problems of disarmament and possible solutions.

PHYSICS OF HEAT EXCHANGE AND GAS DYNAMICS—A. S. Predvoditelev, Ed., transl. from Russian—Consultants, 99 p., illus., paper, \$17.50. Collection of papers on problems of physical gas dynamics and the phenomena of heat transfer in supersonic flows.

RESEARCH ADVANCES IN NEUROLOGICAL AND SENSORY DISORDERS—Public Health Service—GPO, 76 p., illus., paper, 30¢. Summarizes the major gains concerning disorders of the brain and nervous system.

RHEOLOGY OF POLYMERS—Edward T. Severs—Reinhold, 180 p., illus., \$7.50. Introduces non-specialists to rheology with a thorough discussion of the four major categories of polymers—molten, solid, dispersed and dissolved.

REWARD!

Students, Teachers, Engineers will be richly rewarded by getting our Free illustrated folder of SLIDE RULES. Buy Direct and pocket store-dealer's markup! Everywhere College Teachers, High School & College Students, Engineers and Draftsmen use and prefer famous ENGINEER'S Model—World's Finest. Buy no Slide Rules until you see our complete line. Postcard brings literature. It isn't easy for us to sell at such low prices but we're winning friends and customers.

ENGINEERING EQUIPMENT, Bx 638, JOANNA, S.C.

SIGMUND FREUD: Three Essays on the Theory of Sexuality—Transl. by James Strachey, Ed.—Basic Bks., 130 p., \$3.95. Definitive version of fully annotated text, includes all the revisions and additions made between 1905 and 1953.

SOLAR RESEARCH—Giorgio Abetti—Macmillan, 173 p., illus., \$3.95. Provides introduction to the subject for the serious student, including latest theories of sunspots, radio observations and solar effects on terrestrial phenomena.

SOVIET PROGRESS IN NEUTRON PHYSICS—P. A. Krupchitskii, Ed., transl. from Russian—Consultants, 269 p., paper, \$40. Papers deal with resonance absorption and neutron diffusion; fission, fragments and secondary neutrons; interaction of fast neutrons with nuclei; and gamma radiation in neutron capture.

SQUIRELS IN THE GARDEN—Olive L. Earle—Morrow, 63 p., illus. by author, \$2.75. Life cycle of squirrels, for young readers.

STUDY ABROAD: International Handbook of Fellowships, Scholarships, Educational Exchange, 1963—UNESCO (Internat'l Doc. Serv.), 14th ed., 745 p., paper, \$3. Lists some 130,000 opportunities for subsidized international study and travel in almost all parts of the world and in practically all fields of learning and research.

TEEN-AGE TYRANNY—Grace and Fred M. Hechinger—Morrow, 259 p., \$4.50. A well-documented discussion of U.S. teen-age behavior patterns, with emphasis on the middle-class suburban youth.

UNESCO SOURCE BOOK FOR SCIENCE TEACHING—UNESCO (Internat'l Doc. Serv.), rev. ed., 252 p., illus., \$4. This excellent source for science experimentation with simple materials has been expanded to include new materials and equipment suitable also for tropical regions.

UNIVERSALS OF LANGUAGE—Joseph H. Greenberg, Ed.—M.I.T. Press, 269 p., \$6. Conference papers dealing with language universals in phonology, grammar and semantics, with summaries from the viewpoints of linguistics, cultural anthropology and psychology.

THE WONDERS OF ANIMAL LIFE: How Animals Adapt for Survival—Editors of Life and Lincoln Barnett, text adapted by Sarel Eimerl—Golden Press, 54 p., illus., 69¢. A colorful little book for young people about camouflage, migration, and animal communities.

THE WORLD OF LEARNING, 1962-63—Europa Publications, 13th ed., 1,430 p., \$23.50. A directory to the world's universities, colleges, learned societies, libraries, museums, galleries and research institutes, including names of presidents, deans, professors, heads of institutions, publications and other data. Whole section on UNESCO and the international scientific institutions is included.

• Science News Letter, 83:140 March 2, 1963

EDUCATION

Science Fairs Lead to Summer Research Jobs

► THIS YEAR for the first time the Office of Aerospace Research of the U. S. Air Force will offer summer employment to at least six outstanding finalists at the 14th National Science Fair-International to be held this May in Albuquerque, N. Mex. The NSF-I is conducted annually by SCIENCE SERVICE.

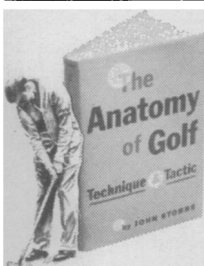
The young scientists chosen will have an opportunity to serve as laboratory aides to Air Force scientists engaged in basic research at facilities in Ohio, Massachusetts, Colorado and New Mexico.

The host scientist will also act as an adult sponsor during the period of employment. In addition to the opportunities and salaries, other suitable recognitions are being planned.

Gen. Don R. Ostrander, Aerospace Research commander, emphasized that this is only a beginning. The national awards are to be a continuing program with the possibility of expansion to include summer employment awards at cooperating regional science fairs in the future.

Summer employment in science-oriented programs has proved to be highly beneficial to the laboratories, scientists and students involved.

• Science News Letter, 83:140 March 2, 1963



The Royal Road To GOLF "Know-how." New 3-Way Guide The Tip-Off.

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