

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.

THE ANNUAL SURVEY OF PSYCHOANALYSIS: A Comprehensive Survey of Current Psychoanalytic Theory and Practice, Vol. IV—John Frosch and Nathaniel Ross, Eds.—*International Univ. Press*, 770 p., \$12. Gives abstracts in considerable detail of papers published in 1953.

AN APPRAISAL OF THE LONGITUDINAL APPROACH TO STUDIES OF GROWTH AND DEVELOPMENT—Dankward Kodlin and Donovan J. Thompson—*Child Development Publications*, Monograph Soc. of Res. in Child Development, Serial No. 67, No. 1, 47 p., paper, \$1.75. Repeated observations on the same individual over a period of time is one of the most valuable approaches to research on growth.

ATOMIC ENERGY COMMISSION TWENTY-THIRD SEMI-ANNUAL REPORT—Lewis L. Strauss, Chairman—*Govt. Printing Office*, 463 p., paper, \$1.25. Includes a three-year summary.

BACTERIAL FERMENTATIONS—H. A. Barker—*Wiley*, 95 p., \$3. Three lectures each devoted to a different kind of fermentation.

CIVILIZATION AND ITS DISCONTENTS—Sigmund Freud, translated from the German by Joan Riviere—*Doubleday*, 105 p., paper, 95¢. A new reprint of a work originally published in 1930.

COMBINATION OF OBSERVATIONS—W. M. Smart—*Cambridge Univ. Press*, 253 p., \$6.50. Explains the theory behind the mathematical methods of dealing with mechanical, accidental and human errors made in the course of observation.

CORTISONE THERAPY: Mainly Applied to the Rheumatic Diseases—J. H. Glyn—*Philosophical Lib.*, 162 p., illus., \$10. An appraisal of this relatively new form of treatment.

THE DAWN OF EUROPEAN CIVILIZATION—V. Gordon Childe—*Knopf*, 6th ed., 367 p., illus., \$7.50. Since the first edition in 1925, many discoveries have added to the archeological record of Europe. This edition presents a thorough revision of the classic.

DIABETES AS A WAY OF LIFE—T. S. Danowski—*Coward-McCann*, 177 p., illus., \$3.50. A practical guide for diabetics and those who must cook or plan for them.

DISTRIBUTION OF METEORITIC DEBRIS ABOUT THE ARIZONA METEORITE CRATER—John S. Rinehart—*Govt. Printing Office*, Smithsonian Contributions to Astrophysics Volume 2, Number 7, 16 p., illus., paper, 20¢. Reporting a study of the world's largest meteorite crater.

EXPERIMENTING WITH CHEMISTRY: Experiments for the Home Lab—Burton L. Hawk—*Science Service*, 96 p., illus., \$2. For the beginning scientist.

THE FASTEST MAN ALIVE—Lt. Col. Frank K. Everest, Jr. as told to John Guenther, foreword by Maj. Gen. Albert Boyd—*Dutton*, 253 p., illus., \$4. The life story of the man who flew a rocket plane at more than 1,900 miles per hour, approaching Mach 3.

THE FETAL PIG: A Photographic Study—W. L. Evans and Addison E. Lee—*Rinehart*, rev. ed., 44 p., illus. with photographs by George Tatum, paper, \$1.25. A visual aid for students in the biological sciences.

FINAL REPORT OF THE ADVISORY COMMITTEE ON WEATHER CONTROLS, Vols. I and II—Howard T. Orville, Chairman—*Govt. Printing Office*, 454 p., illus., paper, \$2.75. Reports and evaluates attempts at weather modification. (See p. 120.)

FOLK MEDICINE: A Vermont Doctor's Guide to Good Health—D. C. Jarvis—*Holt*, 182 p., \$2.95. The author, a physician, has made a special study of the remedies used by country people to keep them well and strong.

FUNDAMENTALS OF HYDRO- AND AEROMECHANICS—O. G. Tietjens, based on lectures of L. Prandtl, translated by L. Rosenhead—*Dover*, 270 p., illus., paper, \$1.85. Inexpensive student edition.

GALILEO AND THE MAGIC NUMBERS—Sidney Rosen—*Little*, 212 p., illus. with drawings by Harve Stein, \$3.50. The life of the famous scientist.

HEALTH THROUGH NUTRITION—Lelord Kordel—*World Pub. Co.*, 315 p., \$3.50. By a biochemist.

AN INTRODUCTION TO CHEMICAL THERMODYNAMICS—E. F. Caldin—*Oxford Univ. Press*, 424 p., illus., \$8. A text for undergraduate or graduate students.

LOUIS PASTEUR: A Great Life in Brief—Pasteur Vallery-Radot, translated from the French by Alfred Joseph—*Knopf*, 207 p., \$3. A delightful biography of the great scientist written by his grandson.

MEMORY: Facts and Fallacies—Ian M. L. Hunter—*Penguin*, 185 p., paper, 85¢. Experiments on the processes of remembering and forgetting have established important facts and exposed an equal number of fallacies.

METAL POWDER ASSOCIATION: Proceedings Thirteenth Annual Meeting, Vol. I, General Session on Powder Metallurgy—M. Eudier and others—*Metal Powder Assn.*, 147 p., illus., paper, \$4. Conference was held in Chicago, April 30-May 1, 1957.

METAL POWDER ASSOCIATION: Proceedings Thirteenth Annual Meeting, Vol. II: Ferrites and Electronic Core Session—J. A. Roberts and others—*Metal Powder Assn.*, 57 p., illus., paper, \$3.

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS FORTY-SECOND ANNUAL REPORT 1956: Administrative Report Including Technical Reports Nos. 1254 to 1295—Hugh L. Dryden, Director—*Govt. Printing Office*, 1002 p., illus., \$7.50.

NATIONAL RESEARCH COUNCIL REVIEW 1957—E. W. R. Steacie, President—*National Research Council (Canada)*, 289 p., illus., paper, 75¢. Reporting the scientific work of the Council during 1956 and also some later work.

THE NEW CASSELL'S GERMAN DICTIONARY—Based on the editions by Karl Breul completely revised and re-edited by Harold T. Betteridge, foreword by Gerhard Cordes—*Funk & Wagnalls*, 1,249 p., \$7 plain, \$7.75 thumb-indexed. An old favorite in a new, up-to-date dress.

ONLY A TRILLION—Isaac Asimov—*Abelard-Schuman*, 195 p., \$3.50. For the reader who enjoys playing with fantastic numbers. The last two chapters are what the author calls "gentle spoofing of science."

THE PHYSICS OF FLUIDS, Vol. I, No. 1: January-February, 1958—Francois N. Frenkiel, Ed.—*Am. Institute of Physics*, 72 p., illus. paper, bi-monthly, \$10 annually. Devoted to kinetic theory, statistical mechanics, structure and general physics of gases, liquids and other fluids.

PRIMITIVE MAN AS PHILOSOPHER—Paul Radin—*Dover*, 456 p., paper, \$2. A student edition of a well-known text.

REACHING DELINQUENTS THROUGH READING—Melvin Roman—*Thomas, C. C.*, 125 p., \$4.50. Reporting what happened when delinquent children were helped to read by psychotherapy.

RUSSIAN-ENGLISH GLOSSARY OF ELECTRONICS AND PHYSICS—P. Robeson Jr., Ed.—*Consultants Bureau*, 354 p., paper, \$10. Includes Russian terms culled from thousands of pages of the most recent issues of Soviet scientific journals. An appendix for the engineer, enabling him to evaluate Soviet circuit diagrams.

RUSSIAN-ENGLISH GLOSSARY OF NUCLEAR PHYSICS AND ENGINEERING—I. Emin, Ed.—*Consultants Bureau*, 195 p., paper, \$10. Incorporates all terms of the Russian-English Dictionary of Nuclear Physics and Engineering by N. N. Ershov, Y. V. Semenov and A. I. Cherny, published by the Institute of Scientific Information of the Academy of Sciences of the U.S.S.R.

STUDIES IN FORAMINIFERA—Alfred R. Loeblich, Jr. and others—*Govt. Printing Office* for Smithsonian Inst., U. S. National Museum Bull. 215, 323 p., illus., paper, \$3.25. A single species may be recorded from the Arctic to the tropics, from the beach or lagoon to a depth of 2,000 fathoms, or from Jurassic to Recent.

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THE VOYAGE OF THE LUCKY DRAGON—Ralph E. Lapp, foreword by Pearl S. Buck—*Harper*, 200 p., illus., \$3.50. Based on interviews revealing the experiences of the 23 Japanese fishermen who were the victims of fallout from Bikini bomb test in 1954.

WORDS ABOUT WORDS: A Collection of Nomenclature Columns—Austin M. Patterson—*American Chemical Society*, 86 p., illus., \$2.25. Discussing the use of chemical terms.

Science News Letter, February 22, 1958

RADIO

Saturday, March 1, 1958 1:30-1:45 p.m., EST
"Adventures in Science" with Watson Davis, director of Science Service, over the CBS Radio network. Check your local CBS station.

Dr. M. Stanley Livingston, professor of physics, Massachusetts Institute of Technology, Cambridge, Mass., and director of Cambridge Electron Accelerator at Harvard University, a joint project of Harvard and M.I.T., supported by the Atomic Energy Commission, will discuss "The Race in Exploring Matter."

PHOTOGRAPHY

Aerial Photograph Taken At Supersonic Speed

See Front Cover

➤ APPROXIMATELY 100 square miles of Arizona were captured on film in a fleeting second. It is believed to be one of the first such aerial photographs taken with a standard mapping camera under controlled conditions at supersonic speed.

The photograph on the cover of this week's SCIENCE NEWS LETTER was shot during tests conducted by the Air Research and Development Command's Wright Air Development Center and the U. S. Army Corps of Engineers. The Sierra Estrelita Mountains can be seen at the upper left, while the Gila River winds through the landscape beginning at about center right.

The camera was carried in an RF-101, the reconnaissance jet plane which set a world's record in December, 1957. The plane recorded 4,840 air miles in six hours, 42 minutes and six seconds for an average speed of 721 miles per hour.

Science News Letter, February 22, 1958

Do You Know?

The *pyrethrum* bloom is a flat white flower with a yellow center, a member of the chrysanthemum family, which thrives only at altitudes from 5,000 to 10,000 feet in warm latitudes.

An electronic system that provides automatic control of vehicles on the highway is called "the ultimate solution" to the problem of *traffic accidents* that now claim more than 100 lives daily.

The Romans used a mixture of volcanic ash with slaked lime to build such famous structures as the Colosseum and the Pantheon.

Sales of reinforced *plastics* reached the 168,000,000-pound level in 1957, a 20% increase over 1956.

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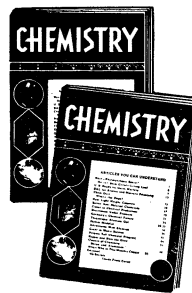
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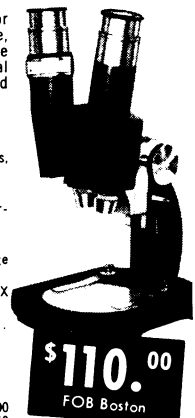
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