

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.

ANATOMIES OF PAIN—K. D. Keele—*Thomas, C. C.*—206 p., illus., \$5.50. Changing ideas on the anatomical and physiological basis of pain since the most ancient medicine.

APPLICATION OF DEMOGRAPHY: THE POPULATION SITUATION IN THE U. S. IN 1975—Donald J. Bogue, Ed.—*Scripps Foundation for Research in Population Problems and Population Research and Training Center*, 96 p., illus., paper, \$2.10. To help businessmen and others to plan for the near future.

ARAUCANIAN CHILD LIFE AND ITS CULTURAL BACKGROUND—Sister M. Inez Hilger—*Smithsonian*, 439 p., illus., \$7. Report of a study of the life of a present-day people in Chile and Argentina.

BIRDS FROM NEPAL—Austin L. Rand and Robert L. Fleming—*Chicago Natural History Museum*, Fieldiana: Zoology, Volume 41, Number 1, 218 p., illus., paper, \$3.50. Dealing with collections made by the junior author between 1949 and 1954.

CALIFORNIA THROUGH THE AGES: The Geologic Story of a Great State—William J. Miller—*Westernlore*, 264 p., illus., \$6.50. California has such geologic wealth that this description is almost a primer of the science.

CHEMISTRY OF THE RARE RADIOELEMENTS: Polonium-Actinium—K. W. Bagnall—*Academic*, 177 p., illus., \$5. The six elements covered are scarcely mentioned in standard textbooks.

THE DISTRIBUTION OF PLUTONIUM IN THE SOILS OF CENTRAL AND NORTHEASTERN NEW MEXICO AS A RESULT OF THE ATOMIC BOMB TEST OF JULY 16, 1945—J. H. Olafson, H. Nishita and K. H. Larson—*Office of Technical Services*, 25 p., mimeo., paper, 75¢. Plutonium was found 28 miles northeast of the detonation site but only three miles south.

ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY: First Supplement Volume—Raymond E. Kirk and Donald F. Othmer, Eds.—*Interscience*, 974 p., illus., \$25. Containing 51 articles on recent noteworthy developments in the field.

THE FUNDAMENTALS OF X-RAY AND RADIUM PHYSICS—Joseph Selman—*Thomas, C. C.*, 2d ed., 347 p., illus., \$8.50. For student X-ray technicians and radiology residents.

HEAT—Alexander Efron—*Rider*, 105 p., illus., paper, \$1.50. Basic science for the general reader.

THE HUNDRED FINEST TREES AND SHRUBS FOR TEMPERATE CLIMATES: A Handbook—Peter K. Nelson, Ed.—*Brooklyn Botanic Garden*, Special Issue of Plants & Gardens, 80 p., illus., paper, \$1. The living "Rembrandts" of the world of woody plants.

INSECT FLIGHT—J. W. S. Pringle—*Cambridge Univ. Press*, 133 p., illus., \$3. Dealing with the subject from a functional and physiological point of view.

INTEGRATING DEVICE FOR USE WITH POTENTIOMETERS—W. Keith Hall, Gustave Sill and Court L. Wolfe—*Mellon Institute*, 3 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

AN INTRODUCTION TO METHOD IN PSYCHOLOGY—W. M. O'Neil—*Melbourne Univ. Press (Cambridge Univ. Press)*, 155 p., \$4.50. Telling the beginner how psychological research is conducted.

THE MACMILLAN WORLD GAZETTEER AND GEOGRAPHICAL DICTIONARY—T. C. Collocott and J. O. Thorne, Eds.—*Macmillan*, rev. ed., 793 p., \$6.95. Places in the world arranged alphabetically for easy reference.

MARRIAGE AND PERSONALITY: A Psychiatric Study of Inter-Personal Reactions for Student and Layman—Ainslie Meares—*Thomas, C. C.*, 157 p., \$3.95. Neither guide to happy marriage nor sex book, this work gives an account of the factors of personality and how they operate in marriage.

MERCURY TOXICITY: A Bibliography of Published Literature—Compiled by Hugh E. Voress and Naomi K. Smelcer—*Office of Technical Services*, 52 p., paper, \$1.50. Containing 1,676 references.

MUSEUMS AND OUR CHILDREN: A Handbook and Guide for Teachers in Museums and Schools and for All Who Are Interested in Programs of Activity for Children—Charles Russell—*Central Book Co.* 338 p., illus., \$6. Of particular interest to science teachers.

OF MEN AND MARSHES—Paul L. Errington—*Macmillan*, 150 p., illus. with drawings by H.



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Albert Hochbaum, \$4.50. Telling what the wet spots of the country offer besides ducks and muddy feet.

PRINCIPLES OF THE PROPERTIES OF MATERIALS—Jacob Porter Frankel—*McGraw-Hill*, 228 p., \$6. Putting the emphasis on properties rather than on materials.

RADIOLOGICAL PHYSICS—M. E. J. Young—*Academic*, 365 p., illus., \$7.50. A short text for medical students.

RECOVERY FROM SCHIZOPHRENIA: The Roland Method—John Eisele Davis—*Thomas, C. C.*, 162 p., \$4.75. Describing a method of treatment specially devised for the far-regressed, chronic patients who do not respond to conventional treatments.

A SCIENTIFIC VOCABULARY FOR BEGINNING ZOOLOGY STUDENTS AND NON-SCIENTIFIC STUDENTS—Mary J. Brown—*Pageant*, 104 p., \$3. Zoology terms defined from Abductor to Zymogen.

SOUND—Alexander Efron—*Rider*, 72 p., illus., paper, \$1.25. Basic science in readable form.

TEXTILE CHEMICALS AND AUXILIARIES: With Special Reference to Surfactants and Finishes—Revised and edited by Henry C. Speel and E. W. K. Schwarz—*Reinhold*, 2d ed., 545 p., illus., \$13.50. The textile industry is the country's most important consumer of industrial chemicals.

THERMAL STRESSES: With Applications to Airplanes, Missiles, Turbines and Nuclear Reactors—B. E. Gatewood—*McGraw-Hill*, 232 p., \$7.50. Covering the design problem at elevated temperatures.

UNDERSTANDING YOUR PATIENT—Samuel Liebman, Ed.—*Lippincott*, 170 p., \$5. Intended to be of practical help to the physician in recognizing emotional problems and handling them.

VISUALIZED PHYSICS—Alexander Taffel—*Oxford Book Co.*, rev. and enl. ed., 408 p., illus., paper, 85¢, cloth \$1.60. A high school text.

Science News Letter, January 11, 1958

PHYSIOLOGY

Device Permits Look Inside Human Heart

See Front Cover

► A DEVICE called the Moody cardiac pulse duplicator, invented by G. Keith Hargett of the Moody Institute of Science, Los Angeles, Calif., enables scientists to study the human heart's action under controlled conditions.

The photograph on the cover of this week's SCIENCE NEWS LETTER is an internal view looking out through the mitral valve "chordae tendinae" which act to keep the valve leaves in their proper closed position.

Science News Letter, January 11, 1958

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