

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 ADVANCEMENT OF SCIENCE: Vol. XIII, No. 51, Dec. 1956—H. Hamshaw Thomas, Chairman, Editorial Committee—*British Association for the Advancement of Science*, 95 p., illus., paper, 7 Shillings and sixpence. Reporting the 1956 Sheffield meeting of the Association.

ANIMAL NAVIGATION: How Animals Find Their Way About—J. D. Carthy—*Scribner's*, 151 p., illus., \$3.95. Telling how the insect, the worm, the mollusk, the mammal and the bird find their way to an objective and home again.

ASPECTS OF HUMAN EQUALITY: Fifteenth Symposium of the Conference on Science, Philosophy and Religion—Lyman Bryson, Clarence H. Faust, Louis Finkelstein and R. M. MacIver—*Conference on Science, Philosophy and Religion (Harper)*, 431 p., \$5.00. Includes papers by 25 leaders in this field.

ATMOSPHERIC MODELS: Air Force Cambridge Research Center—*Missile and Ordnance Systems Department, General Electric*, 28 p., illus., paper, free upon request direct to publisher, 3198 Chestnut St., Philadelphia, Pa., Attention: Product Information. Presenting in tabular and topological form much information about the upper atmosphere.

ATOMS AND THE UNIVERSE: An Account of Modern Views on the Structure of Matter and the Universe—G. O. Jones, J. Rotblat, G. J. Witrow—*Scribner's*, 254 p., illus., \$4.50. A survey of modern physics for the science student and also for the general reader.

CEREBRAL PALSY: Advances in Understanding and Care—Viola E. Cardwell—*Association for the Aid of Crippled Children*, 625 p., illus., \$5.00. A textbook for professional students and personnel specializing in the field.

ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY: Volume 15, Waxes to Zymosterol and index to volumes 1-15—Raymond E. Kirk and Donald F. Othmer, Eds.—*Interscience*, 936 p., illus., \$30.00. Clear descriptions of the processes used in industry or the home to produce various chemical products.

THE ENCYCLOPEDIA OF CHEMISTRY: George L. Clark, Ed. in chief—*Reinhold*, 1037 p., illus., \$19.50. A single integrated volume of refer-

ence in which the contributions of hundreds of authorities provide data for the scientist, engineer and student.

HIGHWAY RESEARCH BOARD, PROCEEDINGS OF THE THIRTY-FIFTH ANNUAL MEETING:—Fred Burgraf and Elmer M. Ward, Eds.—*Highway Research Board*, 840 p., illus., \$10.00. Of particular interest to highway engineers and those concerned with the cost and financing of highways.

HOW TO SURVIVE ON LAND AND SEA: Individual Survival—Frank C. Craighead, Jr. and John J. Craighead, revised by the authors and O. Paul Carmi—*United States Naval Institute*, 2d rev. ed. prepared by the V-Five Association of America, 368 p., illus., \$4.00. Designed originally for the use of instructors and trainees in naval aviation, this comprehensive book would also be of value to Boy Scouts, explorers or anyone else who must stay alive under difficult conditions.

THE HUMAN MACHINE: Biological Science for the Armed Services—Charles W. Shilling—*United States Naval Institute*, 292 p., illus., \$5.00. What the individual needs to know about the human body and its health, prepared especially for men in the armed services.

MAN UNLIMITED: Technology's Challenge to Human Endurance—Heinz Gartmann, translated by Richard and Clara Winston—*Pantheon*, 214 p., illus., \$4.50. A rocket and jet researcher discusses the stress imposed on man by his newest inventions and the human body's ability to adapt to and withstand such strains.

THE PHYSICIAN-WRITER'S BOOK: Tricks of the Trade of Medical Writing—Richard M. Hewitt—*Saunders*, 415 p., illus., \$9.00. Help for the physician in preparing a report for publication. The author is with the Mayo Clinic.

PREGNANCY AND BIRTH: A Book for Expectant Parents—Alan F. Guttmacher—*Viking*, 335 p., illus., \$4.50. An obstetrician answers the many questions that arise in the minds of young mothers and fathers-to-be.

QUESTIONS AND PROBLEMS IN SCIENCE: Test Item Folio No. 1—Paul L. Dressel and Clarence H. Nelson—*Cooperative Test Division, Educational Testing Service*, 805 p., illus., paper, \$27.50. Help for the science teacher who must make up an examination at the end of his course.

REPORT ON CONTINUED STUDY OF WASTE WATER RECLAMATION AND UTILIZATION: Sanitary Engineering Research Laboratory—*State Water Pollution Control Board (Calif. State Printing Division)*, 90 p., illus., paper, \$1.45. One useful approach to the problem of water shortage is the salvaging of waste water for re-use.

THE ROCKEFELLER FOUNDATION ANNUAL REPORT, 1955:—Dean Rusk, President—*Rockefeller Foundation*, 350 p., illus., paper, free upon request direct to publisher, 49 West 49th St., New York, N. Y. Reporting how the Foundation used some \$19,000,000 for the "well-being of mankind throughout the world."

TRANSISTOR ENGINEERING: Reference Handbook—H. E. Marrows—*Rider*, 288 p., illus., \$9.95. Reference work for engineers, students and researchers.

THE VENTRAL INTERSEGMENTAL THORACIC MUSCLES OF COCKROACHES:—L. E. Chadwick—*Smithsonian, Miscellaneous Collections, Volume 131, Number 11, 30 p.*, illus., paper, 40 cents. Cockroaches, which have persisted in much of their present outward form since the Carboniferous Age, are here shown to retain very primitive muscles.

WOMEN OF FORTY: The Menopausal Syndrome—M. E. Landau—*Philosophical Library*, 49 p., \$2.50. A woman physician writes about that period of a woman's life which the author indicates should be the beginning of a new career.

Science News Letter, February 9, 1957

GEOLOGY

Find Important New Geological Fault

► AN IMPORTANT new geological fault has been found near Los Angeles, but there's no evidence that it has contributed to recent California earthquakes or landslides.

The discovery was made during a survey of the Santa Monica Mountains by Dr. Cordell Durrell, professor of geology at the University of California at Los Angeles.

The Santa Monica Mountains separate the Los Angeles basin from the San Fernando Valley and have provided outdoor locations for many Hollywood motion pictures.

The fault, called the Malibu Bowl fault, is important but as yet little-known, according to Dr. Durrell. It runs a little north of west in the area of Solstice and Escondido Canyons, about three miles north of the Pacific Ocean.

The vast difference in rocks on one side of the fault from those on the other suggests a considerable lateral movement.

Many faults are to be found in the rugged coastal mountain area. The longest is the Malibu Coast fault system which separates the Santa Monica Mountains from the Los Angeles basin. It runs from many miles north of Malibu Creek to the Hollywood area. It is apparently an old fault with a late and large lateral movement.

Also discovered in Dr. Durrell's survey was a 12,000-foot thick volcanic formation. It was formed by an undersea volcanic eruption that occurred when the area was part of the ocean floor.

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