

Books of the Week

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organizers in every branch of modern science. Such talent is already being rallied around the standard of space travel.

MASTER INDEX TO SUPREME PUBLICATIONS MOST-OFTEN-NEEDED RADIO AND TELEVISION SERVICING INFORMATION 1953—*Supreme Publications*, 32 p., paper, free upon request (with 4 cents for postage) direct to publisher, 3727 West 13th St., Chicago 23, by readers mentioning the *SCIENCE NEWS LETTER*.

THE MEANING OF THE GLORIOUS KORAN—An Explanatory Translation by Mohammed Marmaduke Pickthall—*New American Library*, 464 p., paper, 50 cents. The translator, who is an English Muslim, explains that this work is not the "Glorious Koran" itself, but an attempt to present the meaning of the Koran and something of its charm in English. The Koran, he declares, cannot be translated but must be read in Arabic.

THE NURSING MOTHER: A Guide to Successful Breast Feeding—Frank Howard Richardson—*Prentice-Hall*, 204 p., illus., \$2.95. To answer the questions of expectant mothers who

want to know what preparations they should make for nursing the baby and those who doubt that it is possible. The author is licentiate of the American Board of Pediatrics.

ONE GENERATION AFTER ANOTHER—James Lee Ellenwood—*Scribner's*, 182 p., illus., \$3.00. A humorous book intended to offer parents suggestions on dealing with their children.

PARRAKEETS—Herbert S. Zim—*Morrow*, 64 p., illus., \$2.00. Beautiful drawings illustrate this book for children, telling how to raise, train and breed parrakeets.

THE PHILOSOPHY OF SHAKESPEARE—K. J. Spalding—*Philosophical Library*, 191 p., \$3.75. Shakespeare is known to us mainly as a poet and dramatist, but Prof. Spalding has searched all his known works to find the underlying philosophy which unifies them.

PRELIMINARY SURVEY ON METHODS OF TEACHING READING AND WRITING: Part I—William S. Gray—*UNESCO's Education Clearing House*, 66 p., illus., paper, limited number of copies free upon request direct to publisher, 19, Avenue Kleber, Paris 16^e, France. To wipe out illiteracy, the report indicates, it will be necessary to at least double the present facilities for primary education and literacy training, and to train hundreds of thousands of teachers.

PRELIMINARY SURVEY ON METHODS OF TEACHING READING AND WRITING: Part II—William S. Gray—*UNESCO's Education Clearing House*, 72 p., paper, limited number of copies free upon request direct to publisher, 19, Avenue Kleber, Paris 16^e. This part contains a summary of suggested practices for teaching both children and adults to read and write.

PRESENT KNOWLEDGE IN NUTRITION: Prepared from Articles Published in the Journal Nutrition Reviews—*Nutrition Foundation*, 122 p., paper, \$2.00. Bringing together the latest findings in this field.

PROBLEMS IN ORGANIC CHEMISTRY—Edward G. Rietz and C. B. Pollard—*Prentice-Hall*, 332 p., \$3.95. Intended for use with a standard organic text, and planned to eliminate some of the student's after-class perplexities.

RELATIVITY AND REALITY: A Re-Interpretation of Anomalies Appearing in the Theories of Relativity—E. G. Barter—*Philosophical Library*, 131 p., \$4.75. The author states that this is not an attempt to criticize the mathematical theory of relativity but to apply the criteria of a court of law to the evidence in such a way as to eliminate some of the logical difficulties.

REVIEW OF ASTM RESEARCH: As Studied by the Technical Committees of the Society—Administrative Committee on Research—*American Society for Testing Materials*, 22 p., paper, free upon request to publisher, 1916 Race Street, Philadelphia 3, Pa.

ROUND RIVER: From the Journals of Aldo Leopold—Luna B. Leopold, Ed.—*Oxford University Press*, 173 p., illus., \$3.00. Informal notes and essays by a conversation pioneer.

SEPARATION OF GASES BY FREE DOUBLE DIFFUSION—F. A. Schwertz—*Mellon Institute*, 5 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

Science News Letter, October 10, 1953

ENGINEERING

Auxiliary Motor Solves Trolley-Bus Problems

► **TROLLEY-BUSES** in Uerdingen, Germany, have been made more versatile by the addition of an extra motor to their power plants.

The spare motors permit the buses to go where no trolley wires exist. Thus motor-men can extract their buses from traffic snarls by resorting temporarily to the extra motor, and transit companies can cut capital outlay by dispensing with turn-around loops at the end of the line.

A gasoline-powered motor coupled with a 140-volt, 13-kilowatt electric generator makes up the supplementary power plant. It drives the fully loaded electric buses, carrying 92 persons, about 11 miles an hour. A particular advantage of the auxiliary motor lies in its ability to power the trolley buses across railroad tracks where no trolley wires can be strung.

An experiment of the Uerdingen Waggonfabrick Company, the new system has been declared satisfactory. Modified buses equipped with the extra motor already have been supplied to transit companies in Rheydt and Solingen.

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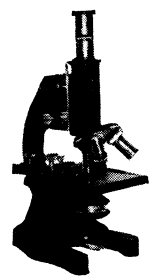
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