

# Books of the Week

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ABC'S OF PHOTOGRAMMETRY PART I: FUNDAMENTALS—Gomer T. McNeil, approx. 125 p., illus., \$3.00. Presents basic concepts in the field. For the junior photogrammetrist and specialists in related subjects. A prerequisite to Part II.

ABC'S OF PHOTOGRAMMETRY PART II: TILT AND CONTROL EXTENSION—Ralph O. Anderson, approx. 145 p., illus., \$3.00. Discusses the operational procedures required in the course of recovering survey data from photographic measurements. Supplementary to Part I ABC's of Photogrammetry.

THE AGRICULTURAL ESTIMATING AND REPORTING SERVICES OF THE UNITED STATES DEPARTMENT OF AGRICULTURE—Bureau of Agricultural Economics and Production and Marketing Administration—Gov't. Printing Office, U. S. Dept. Ag. Misc. Publ. No. 703, 266 p., illus., paper, \$1.00. History, organization, and methods of this service are given.

BIOLOGICAL ACTIONS OF SEX HORMONES—Harold Burrows—Cambridge University Press, 2nd ed., 615 p., illus., \$8.50. A co-ordinated summary of experimental investigations brought completely up-to-date.

BRAZILIAN CULTURE: An Introduction to the Study of Culture in Brazil—Fernando de Azevedo—Macmillan, 562 p., illus., \$12.50. A description of the country and its people, their work, the growth of their cities, and social and political evolutions. Translated from the Portuguese by William Rex Crawford.

CASE HISTORIES OF SUCCESSFUL ADVERTISING: Problems—Solutions—Results—Printers' Ink Editors and Contributors—Funk and Wagnalls in association with Printers' Ink, 296 p., illus., \$4.75. Outstandingly successful examples of advertising and marketing in many different fields.

CONSUMPTION OF FEED BY LIVESTOCK 1909-47: Relation Between Feed, Livestock, and Food at the National Level—R. D. Jennings—Gov't. Printing Office, U. S. Dept. Ag. Circ. No. 836, 105 p., illus., paper, 25 cents.

DIMENSION STOCK AND OTHER USES OF ASPEN—Alexis J. Panshin—U. S. Department of Agriculture, Lake States Aspen Report No. 12, 18 p., paper, free upon request to publisher, Lake States Forest Experiment Station, St. Paul 1, Minn. A brief report on the properties of aspen.

ELEMENTS OF CALCULUS—Thurman S. Peterson—Harper, 369 p., illus., \$3.50. An introductory college text.

ENJOYING LEISURE TIME—William C. Menninger—Science Research Associates, Life Adjustment Series, 48 p., illus., paper, 60 cents. Suggests methods for using leisure time constructively. For teenagers, parents and those working in the guidance field.

GOALS FOR AMERICAN EDUCATION—Lyman Bryson, Louis Finkelstein, R. M. MacIver, eds.—Harper, 555 p., \$5.00. This volume grew out of the Ninth Symposium on Science, Philosophy and Religion in their Relation to the Democratic Way of Life. Stresses the purposes of American education.

JANE'S FIGHTING SHIPS 1949-50—Francis E. McMurtrie and Raymond V. B. Blackman, eds.—McGraw-Hill, 416 p., illus., \$16.50. An encyclopedia of the navies of the world.

JET PROPULSION—H. G. WINTERSTEEN—International, 64 p., illus., paper, \$1.00. Explanation for the layman of the basic fundamentals of jet propulsion.

MEN'S PREFERENCES AMONG SELECTED CLOTHING ITEMS—U. S. Department of Agriculture—Gov't. Printing Office, 191 p., illus., paper, 40 cents. A study of the preferences of men 16 years old and over in some of their most important clothing purchases.

METHODS FOR MICROBIOLOGICAL AND CHEMICAL DETERMINATIONS OF ESSENTIAL AMINO ACIDS IN PROTEINS AND FOODS—Millard J. Horn, D. Breese Jones, and Amos E. Blum—Gov't. Printing Office, U. S. Dept. of Ag. Misc. Publ. No. 696, 12 p., illus., paper, 10 cents.

NASHUA GUMMED AND COATED PAPER COMPANY AND SEVEN AFL UNIONS: A Case Study—Charles A. Myers and George P. Shultz—National Planning Association, 89 p., illus., paper, \$1.00. A report of a study of both the management and the union leadership.

THE NATURE OF MAN: His World—His Spiritual Resources—His Destiny—A. William Loos, Ed.—The Church Press Union, 110 p., \$1.00. An attempt to show how science, philosophy,

and religion contribute to an understanding of the nature of man. Articles are written by such leading scientists as Edmund W. Sinnott, Kirtley Mather, and Gardner Murphy.

NEW SUBSPECIES OF BIRDS FROM SOUTHWESTERN ASIA—Walter Koelz—American Museum of Natural History, 10 p., paper, 25 cents. Report of the new subspecies found by the author while collecting in Iran, Afghanistan and India.

A NEW SURVEY OF SCIENCE: A Revised and Enlarged Edition of "Science Marches On"—Walter Shephard—Harcourt, Brace, 511 p., illus., \$4.75. Presents a brief picture of major scientific developments beginning with man's first concept of number up to and including the principles of the atomic pile.

NOTES ON BIRDS OF SOUTHEASTERN PAPUA—E. Thomas Gilliard—American Museum of Natural History, 40 p., paper, 25 cents. A report based on the collections of the author.

SOME EARLY TOOLS OF AMERICAN SCIENCE: An Account of the Early Scientific Instruments and Mineralogical and Biological Collections in Harvard University—I. Bernard Cohen—Harvard University Press, 201 p., illus., \$4.75. A description of early scientific instruments used at Harvard during its early days. Well illustrated.

STUDIES OF SOUTH AMERICAN PLANTS, XII—A. C. Smith—Gov't. Printing Office, Smithsonian Institution's Contribution From The United States National Herbarium, Vol. 29, Part 8, approx. 76 p., paper, 35 cents. Brings together miscellaneous notes on South American representatives of special families of phanerogams.

Science News Letter, February 25, 1950

## PLANT PATHOLOGY

# Mistletoe Choking Forests

► THERE is a strangler loose in the nation's forests that is choking trees to death. The fatal grip is a toe-hold—a mistletoehold.

Dwarf mistletoe is a tree parasite that is causing forest pathologists of the U. S. Department of Agriculture grave concern. In Grand Canyon National Park and in Kaibab National Forest, foresters report that the tiny mistletoe plant has invaded on a serious scale.

There is danger that the vast acreage of government and private pine forests in the West may be destroyed by the mistletoe, which kills the host trees by slow strangulation, or reduces the value of cull timber by producing scrawny trees.

The leafless little killer has one characteristic which may be its undoing, the scientists think. Dwarf mistletoe spreads its seeds by an explosion of the seed sack. Seed travels as much as 60 feet, usually to stick onto another tree. The new host then is saddled with the unwanted parasite.

Using this knowledge, foresters are now systematically hunting down areas of mistletoe infestation, and clearing out any mistletoe found in a 60-foot wide circle around the suspected area.

They think that by repeating this me-

thodical cleanup two or three times at two-year intervals, they can break the strangling mistletoehold.

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