

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 CHALLENGE TO MEDICAL EDUCATION—Robert M. Cunningham Jr.—*Public Affairs Committee*, Public Affairs Pamphlet No. 214, 28 p., illus., paper, 25 cents. More groups must accept an increased share of responsibility for the support of medical education, according to the author, if medical schools are to function most effectively in the future.

A DICTIONARY OF ELECTRONIC TERMS: Concise Definitions of Words Used in Radio, Television and Electronics—Gordon R. Partridge, Ed.—*Allied Radio Corporation*, revised ed., 72 p., illus., paper, 25 cents. Definitions covering modern techniques and equipment in this rapidly expanding field.

THE FIRST BOOK OF PREHISTORIC ANIMALS—Alice Dickinson—*Franklin Watts*, 92 p., illus., \$1.75. Telling young people about the animals that lived upon the earth before the coming of man.

FOG MODIFICATION BY COLD-WATER SEEDING—Vernon G. Plank—*Office of Technical Services*, Geophysical Research Papers, No. 31, 21 p., illus., paper, 75 cents. Investigating the possibility of dispersing fog or stratus by cold-water seeding, and discussing the physical factors that must be considered.



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GLUTATHIONE: Proceedings of the Symposium Held at Ridgefield, Connecticut, November 1953—S. Colowick and others, Eds.—*Academic Press*, 341 p., illus., \$7.50. Attempting to include all of the significant current information about this sulfhydryl tripeptide and its use.

INTRODUCTION TO THEORETICAL MECHANICS—Robert A. Becker—*McGraw-Hill*, 420 p., illus., \$8.00. A text, designed for physics majors and first-year graduate students, with emphasis on problem solving.

LEARNING: Reinforcement Theory—Fred S. Keller—*Doubleday*, *Doubleday Papers in Psychology*, 37 p., paper, 85 cents. A simple and brief introduction to this theory, which provides an approach to modern psychology and the understanding of man.

MINERALS YEARBOOK 1952: Vol. II, Fuels—Fuels and Explosives Division, U. S. Bureau of Mines—Govt. Printing Office, 450 p., illus., \$2.25. Reviewing the industry as a whole, as well as presenting chapters on each mineral-fuel commodity.

PETROLEUM FACTS AND FIGURES—American Petroleum Institute, 11th ed., 322 p., paper, \$2.00. Together with the ninth edition, this book provides a statistical history of the oil industry dating from the earliest years for which comparable figures are available.

THE PLANT QUARANTINE PROBLEM: A General Review of the Biological, Legal, Administrative and Public Relations of Plant Quarantines with Special Reference to the United States Situation—W. A. McCubbin—*Ejnar Munksgaard*, 255 p., illus., \$4.80. The author was plant pathologist of the U. S. Dept. of Agriculture until his retirement in 1950. Published in Denmark.

THE PROCESS AND EFFECTS OF MASS COMMUNICATION—Wilbur Schramm, Ed.—*University of Illinois Press*, 586 p., illus., \$6.00. For students in the field of communication, especially those concerned with international communication, these pertinent articles have been collected.

SEASONAL TRENDS OF TEMPERATURE, DENSITY, AND PRESSURE IN THE STRATOSPHERE OBTAINED WITH THE SEARCHLIGHT-PROBING TECHNIQUE—L. Elterman—*Office of Technical Services*, Geophysical Research Papers, No. 29, 70 p., illus., paper, \$2.25. An overall representation of stratosphere conditions over New Mexico, based on the average of 90 sets of measurements.

SHARING IN OUR EXPANDING ECONOMY: Guides to Planning and Financing Company Progress—Gordon W. McKinley and others—*American Management Association*, Financial Management Series No. 107, 35 p., paper, \$1.75. Suggesting how those concerned with corporate finance can take advantage of indicated trends and certain benefits offered by new legislation and rulings, and by the activities of government agencies.

SILICA SAND RESOURCES OF WESTERN VIRGINIA—W. D. Lowry—*Virginia Polytechnic Institute*, Engineering Experiment Station Series No. 96, 62 p., illus., paper, 75 cents. Based on a survey made by the Virginia Engineering Experiment Station in 1951.

TREASURES OF THE EARTH—Fred Reinfeld—*Sterling*, 156 p., illus., \$2.95. To introduce young people and hobbyists to the beauty and wealth that exist beneath our feet, and telling how to start on the engrossing pastime of collecting minerals and rocks.

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Questions

AGRICULTURE—How do wind tunnels help fight soil erosion? p. 386.

BIOLOGY—What could be results of discovering artificial photosynthesis? p. 387.

ENTOMOLOGY—How may the fly problem in cities be eliminated? p. 386.

NUTRITION—What is dehydrofreezing? p. 389.

PSYCHIATRY—What may be cause of mental depressions at Christmas time? p. 386.

Photographs: Cover, Commonwealth Scientific and Industrial Organization; p. 386, Hawaiian Sugar Planters' Association; p. 390, Convair; p. 392, Northrop Aircraft, Inc.; p. 393, Carnegie Institution of Washington; p. 394, Batelle Memorial Institute; p. 395, Pitman-Moore Company; p. 400, Eastman Chemical Products, Inc.

ENTOMOLOGY

Melon Output Increases Where Bees Congregate

► INVITING HONEY bees to live next to a cantaloupe field can mean almost twice as many melons per plant at harvest time.

In a study of 37 melon fields made in the Salt River Valley of Arizona, where growers have known for some time that honey bees are necessary as pollinators, it was found that honey bees living next to a field can increase the average per acre output by 81 crates of melons.

Reporting to an Entomological Society of America meeting in Houston, Tex., Edgar A. Taylor, a U. S. Department of Agriculture entomologist, stated that the study also showed that in fields without nearby hives, each plant produced an average of 0.6 cantaloupe, whereas, with bee colonies close by, the plants bore an average of 1.06 melons each.

Science News Letter, December 18, 1954

The Right Way to Play CHESS

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