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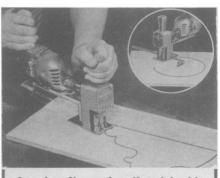
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Books of the Week

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 Deportment, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

ARCHAEOLOGY AND SOCIETY: Reconstructing the Prehistoric Past—Grahame Clark—Harvard Univ. Press, rev. ed., 272 p., illus., \$5. An outstanding British archaeologist tells the general reader how these scientists go about uncovering the past.

THE ASHANTI: A Proud People-Robert A. ystad—Rutgers Univ. Press, 212 p., illus., \$5. The author, an anthropologist, reports here his eight-month study of the Ashanti, one of the peoples in the new state of Ghana.

THE BEETLES OF THE PACIFIC NORTHWEST: Part II, Staphyliniformia-Melville H. Hatch with the collaboration of Milton W. Sanderson and Gordon A. Marsh—Univ. of Washington Press, 384 p., illus, \$7. Covering all the beetles of the region. Beetles constitute about 30% of the world's fauna.

CHEMICAL SPECIALTIES MANUFACTURERS AS-SOCIATION, PROCEEDINGS OF THE FORTY-THIRD MID-YEAR MEETING—Harry E. Peterson and others—Chemical Specialties Manufacturers Association, 193 p., illus., paper, \$7.50. Complete transcripts of technical papers.

DEAFNESS, MUTISM AND MENTAL DEFICIENCY -Louis Minski-Philosophical Lib., IN CHILDREN-82 p., illus., \$3.75. The child who cannot hear or speak has often been confused with the mentally retarded child or, frustrated by lack of communication, he may develop emotional disturbances.

DIGGING UP JERICHO: The Results of the Jericho Excavations 1952-1956—Kathleen M. Kenyon—*Praeger*, 267 p., illus., \$5. The director of the excavations tells what was learned about life in that ancient city.

ELEMENTARY INDUSTRIAL ELECTRONICS-William R. Wellman—Van Nostrand, 2d ed., 455 p., illus., \$5.50. Covering principles for the beginning student.

ELEMENTS OF TAPE RECORDER CIRCUITS Herman Burstein and Henry C. Pollak—Gerns-back, 223 p., illus., paper \$2.90, cloth \$5.

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THE EVOLUTION OF THE IGNEOUS ROCKS-N. L. Bowen, introduction by J. F. Schairer— Dover, 334 p., illus., paper, \$1.85. New student edition of a book first published in 1928 and long out of print.

H. M. STANLEY: UNPUBLISHED LETTERS-Albert Maurice with preface by Denzil M. Stanley—Philosophical Lib., 183 p., illus., \$7.50. These rare documents describe the famous Stanley's experiences in opening up the Belgian Congo.

How to Improve Your Memory-Iames D. Weinland—Barnes & Noble, 149 p., illus., paper, \$1. Helpful to the student who finds he must cram at the last minute before an exam or to the busy executive who simply cannot remember to put in a phone call to Mr. X at exactly ten o'clock.

How to Make A Telescope—Jean Texereau, translated and adapted from the French by Allen Strickler, forewords by André Couder and Albert G. Ingalls—Interscience, 191 p., illus., \$3.50. For the painstaking amateur, not for the person the foreword calls a "skitterer who is content with a lick and a dab."

Insects-Hunters and Trappers-Hutchins—Rand McNally, 96 p., illus with photos by the author, \$2.95. Introducing young people to a new world which includes the 'pursuit planes" among the insects as well as those that can pull 66 times their own weight.

JAPAN DICTIONARY: Japanalia-Lewis Bush-Philosophical Lib., 226 p., illus., \$10. A beautiful book of information about the life and customs of Japan.

THE MEDICAL AND VETERINARY IMPORTANCE OF COCKROACHES—Louis M. Roth and Edwin R. Willis—Smithsonian, 147 p., illus., paper, \$1.25. Showing that these insects are much more than an unpleasant nuisance; they are highly dangerous.

Nuclear Power and Italy's Energy Position—I. M. D. Little and P. N. Rosenstein-Rodan—Nat. Planning Assn., 79 p., paper, \$1.25. Italy, more than any other country in Europe, critically needs nuclear power.

NUCLEAR RADIATION IN FOOD AND AGRICUL-TURE—W. Ralph Singleton, Ed.—Van Nostrand, 379 p., illus., \$8.50. Based on papers presented at the Geneva Conference on Peaceful Uses of Atomic Energy in 1955.

PHYSICO-CHEMICAL EFFECTS OF PRESSURE— S. D. Hamann—Academic, 246 p., illus., \$8.50. For the most part concerned with changes brought about by pressures above a hundred atmospheres.

PLANETS, STARS AND SPACE—Joseph Miles Chamberlain and Thomas D. Nicholson— Creative Educ. in cooperation with the Am. Mus. of Natural Hist., 223 p., illus., \$4.95. A beautifully illustrated book for the beginner in astronomy

PRIMITIVE RELIGION: Its Nature and Origin —Paul Radin—*Dover*, 322 p., \$1.85. Inexpensive student edition of an anthropology

PRINCIPLES OF ELECTRICAL MEASUREMENTS H. Buckingham and E. M. Price—Philosophical Lib., 600 p., illus., \$15. For advanced students and engineers.

PROJECT VANGUARD REPORT No. 21: Minitrack Report No. 2 The Mark II Minitrack System—Roger L. Easton—Naval Research Lab. (Office of Tech. Services), 29 p., illus.,

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paper, \$1. The Mark II Minitrack system will permit amateur volunteer groups to spot and track man-made satellites.

STUDY OF ICE FORMATION IN SOILS-Kenneth A. Jackson and Bruce Chalmers-Office of Technical Services, 44 p., illus., paper, \$1.25. Outlining the theory of nucleation of freezing.

TECHNIQUES OF MAGNETIC RECORDING-Joel Tall with chapter by Peter Paul Kellogg—Mac-millan, 472 p., illus., \$7.95. Telling "how-to-do-it," as well as something of the history of recording and specialized uses in entertainment, law, medicine and education. A chapter by Kellogg tells of recording the sounds of nature.

THERMAL RESISTANCE OF AIRSPACES AND FIBROUS INSULATIONS BOUNDED BY REFLECTIVE Surfaces-H. E. Robinson, L. A. Cosgrove and F. J. Powell—Govt. Printing Office, National Bureau of Standards, Building Materials and Structures Report 151, 22 p., illus., paper, 20¢. Reporting tests of insulating materials.

VITALIZED CHEMISTRY (In Graphicolor)—Russell T. Des Jardins—College Entrance Book Co., 4th ed., 406 p., illus., paper, \$1. A concise high-school text, using color to "spotlight" important points for easy study and quick review.

Science News Letter, January 25, 1958

MEDICINE

New Anti-Leukemia Drugs Developed

➤ TWO NEW anti-leukemic drugs that promise to be more effective than amethopterin, a drug now in standard use, are about to undergo their first trial in human patients at the National Institutes of Health, Bethesda, Md.

Animal studies, done by Dr. Abraham Goldin and associates at the National Cancer Institute, have shown that both drugs give longer survival times and are less toxic than the older drug.

The new ones are chemically similar to amethopterin and are known technically as monochloroamethopterin and 3', 5'-dichloroamethopterin. All of them are folic acid antagonists.

Folic acid is also known as vitamin Be and vitamin M and is a necessary factor for cell growth. The so-called antagonists resemble folic acid and have been developed so cancerous cells can be tricked into taking them up instead of the needed folic acid. When this happens, normal life processes inside the cell are disrupted and the cell dies.

One of the important advantages of the new drugs is that they can be given in much higher dosages than amethopterin without beginning to harm normal cells as well as cancerous ones.

In mice, which had received fatal doses of leukemic cells, the 3', 5'-dichloroamethopterin gave an average survival time of 36 days. The average survival time of untreated control animals was only 11 days.

With the new drug, unlike amethopterin, the local tumor at the site of the leukemic inoculation began wasting away under dose levels too small to cause the entire animal to lose weight at the same time.

Dr. Goldin reports on the animal work in the Journal of the National Cancer Institute (Dec. 1957) with his associates Drs. John M. Venditti and Stewart R. Humphreys and Nathan Mantel.

Science News Letter, January 25, 1958

ANTHROPOLOGY—How long has man lived in the eastern United States, according to radiocarbon dating of tools? p. 57.

With what disease is Hemoglobin E associated? p. 55.

GENERAL SCIENCE—What proportion of the budget has President Eisenhower indicated for research and development and science education? p. 53.

GEOPHYSICS—How much more ozone is there at Little America than in New Mexico? p. 51.

MEDICINE—What metals either have been found to cause cancer or are suspected of causing the disease? p. 56.

Photographs: Cover, National Bureau of Standards Boulder Laboratories; p. 51, U. S. National Committee-International Geophysical Year; p. 53, Smithsonian Institution; p. 64, Ceco Steel Products Corp.

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