

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.

BASIC ELECTRONIC TEST INSTRUMENTS: Their Operation and Use—Rufus P. Turner—*Rinehart*, 254 p., illus., \$4.00. To acquaint the electronics technician with the instruments of his art. The book includes directions for building those which are not available ready-made.

EDUCATION IN TURKEY—Abul H. K. Sassani—*Govt. Printing Office*, Office of Education Bulletin 1952 No. 10, 96 p., illus., paper, 30 cents. General education became possible in Turkey with the introduction in 1928 of Latin characters to replace the Arabic script which was so difficult to learn to use accurately. Now education vies with defense for first place in the national budget.

HEADACHES: Their Nature and Treatment—Stewart Wolf and Harold G. Wolff—*Little, Brown*, 177 p., \$2.50. This non-technical book will interest all those who suffer from headaches (and who does not?). Although 90% of headaches are due to vascular causes or to muscle tightness, some, including some sinus aches, can be traced to emotional difficulties.

JOURNAL OF CLINICAL AND EXPERIMENTAL HYPNOSIS: Volume 1, Number 1—Milton V. Kline, Ed.—*Woodrow Press*, 82 p., paper, \$6.00 a year, single issues \$2.00. This new journal is a direct outgrowth of the development and activity of the Society for Clinical and Experimental Hypnosis, and provides a medium for publication of scientific papers on hypnosis.

MESON PHYSICS—Robert E. Marshak—*McGraw-Hill*, 378 p., illus., \$7.50. For advanced

students and research workers in meson physics. Knowledge of quantum mechanics and quantum theory are presupposed.

OUT OF STEP: A Study of Young Delinquent Soldiers in Wartime; Their Offenses, Their Background and Their Treatment Under an Army Experiment—Joseph Trenaman—*Philosophical Library*, 223 p., illus., \$4.75. During the war, the British army formed Special Training Units for disciplinary problem soldiers. A few of the men were found to be physically or mentally handicapped. With others chief cause of trouble was parental neglect.

PATHOLOGY IN SURGERY—Edwin F. Hirsch—*Williams & Wilkins*, 474 p., illus., \$10.00. This text gives surgical pathologists and students the benefit of the author's rich experience at St. Luke's Hospital, Chicago. Bountifully illustrated.

WATER: Miracle of Nature—Thomson King—*Macmillan*, 238 p., \$3.50. An entertaining book about water in all its forms and states, describing its many uses and conservation.

YOUR HEALTH, SIR!—Miriam Lincoln—*Harper*, 211 p., \$2.75. Devoted specifically to the health problems of American business and professional men, this book is based on a series of articles written for "Esquire." The author is a practicing physician.

Science News Letter, February 7, 1953

SURGERY

Nylon Makes Arthritic Knees Work Prettily

➤ MORE THAN 50 once painful, stiff arthritic knees are now moving easily, thanks to nylon. The nylon, in very thin sheets, is used to line the under surface of the knee cap.

The technique for stapling the nylon's sheet, or membrane, to the bone by small stainless steel staples was developed by Drs. John G. Kuhns, Theodore A. Potter, Robert S. Hormell and William A. Elliston of Boston. They described it at the meeting of the American Academy of Orthopaedic Surgeons in Chicago.

They reported "satisfactory functioning" resulted in 58 of 78 arthritic knees operated on. Although performed on only one knee, the operation makes it possible for the patient to get around without help. The nylon knee liners were only given to joints which had not responded to other treatment.

Motion is started when the skin wound is healed after the operation. Partial weight bearing, with the knee in a plaster cast, is allowed after three weeks. But it takes about six months to get good function in the joint and adequate strength in the thigh muscles. After healing of the wound, there is usually no swelling, tenderness or local heat. The knee feels the same as the other side in motion.

Science News Letter, February 7, 1953

GENERAL SCIENCE

Name Honorable Mentions

➤ HONORABLE MENTIONS in the Twelfth Annual Science Talent Search were announced on Feb. 5. Girls number 57 of the 260 outstanding seniors in the list, and 203 are boys. This division was determined by the ratio of girls to boys who participated in the competition.

The 260 young people to whom Honorable Mention listing was given reside in 148 communities, located in 38 states. They were chosen from among 14,260 entrants, 2,264 of whom completed the science aptitude examination, submitted recommendations and scholarship records, and wrote reports on "My Scientific Project."

The 40 highest ranking boys and girls, winners of all-expense trips to Washington, were listed in last week's SCIENCE NEWS LETTER. (See p. 70.)

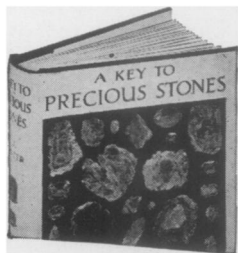
In the 11 preceding Science Talent Searches, most of the students named in the Honorable Mentions list have been offered scholarships, and many of those named this year will qualify for valuable scholarships and other financial aid in the colleges, universities and technical schools of their choice. The judges found all 300 boys and girls to be students of outstanding ability.

Students in the Honorable Mentions list invariably rank high in their high school

graduating classes: 40% of the boys and 54% of the girls stood first, second or third in their high school classes.

For a booklet containing the names and addresses of the Winners and Honorable Mentions, and details of the Twelfth Annual Science Talent Search, send a three-cent stamp with a self-addressed envelope to Science Clubs of America, 1719 N St., N.W., Washington 6, D. C.

Science News Letter, February 7, 1953



A Key to Precious Stones

By L. J. SPENCER

Formerly Keeper of Minerals, British Museum

"The author has set a high standard for popular works on scientific subjects. By avoiding technical treatment and using simple language he introduces the reader to the fundamentals of the subject. Well-worn facts are given new lustre and recent discoveries are presented in a manner that is intelligible to the layman. Within the compass of a small, inexpensive book, provided with a good index, is collected considerable information formerly scattered through a voluminous literature, including much that is new to the advanced student."—*Mineralogical Magazine*.

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