

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.

ADVANCES IN CHEMICAL ENGINEERING: Volume II—Thomas B. Drew and John W. Hoopes, Jr., Eds.—*Academic*, 338 p., illus., \$9.50. Providing the chemical engineer with critical summaries of recent work.

BASIC CONSIDERATIONS IN THE COMBUSTION OF HYDROCARBON FUELS WITH AIR—Propulsion Chemistry Division, Lewis Flight Propulsion Laboratory—*Govt. Printing Office*, 259 p., graphs, paper, \$2.25.

CLINICAL ENZYMOLOGY—Gustav J. Martin, Ed.—*Little*, 241 p., illus., \$6. Discussing a new field of medicine.

THE EFFECTS OF RADIATION ON MATERIALS—J. J. Harwood, Henry H. Hausner, J. G. Morse and W. G. Rauch, Eds.—*Reinhold*, 355 p., illus., \$10.50. To the layman, the biological effects of radiation are of more immediate concern, but to engineers, physicists and chemists, the effects on materials are of great importance.

ELEMENTARY PRACTICAL ORGANIC CHEMISTRY: Part III Quantitative Organic Analysis—Arthur I. Vogel—*Longmans*, 228 p., illus., \$4.50. An elementary text for students and an introduction to the subject for research and industrial chemists.

FRONTIERS OF SCIENCE—Lynn Poole—*McGraw-Hill*, 173 p., illus., \$3.25. Explaining new developments and those still under way in science.

GAS DYNAMICS—Ali Bulent Cambel and Burgess H. Jennings—*McGraw-Hill*, 415 p., illus., \$11. For the advanced undergraduate and beginning graduate student.

LIVING THINGS—Frederick L. Fitzpatrick and Thomas D. Bain—*Holt*, rev. ed., 416 p., illus., \$4.12. An attractively illustrated high-school text for students lacking the capacity for the standard biology course.

LUMBER—Nelson Courtlandt Brown and James Samuel Bethel—*Wiley*, 2d ed., 379 p., illus., \$9. Most significant addition to the new edition is a chapter on quality control.

MAN AND NUMBER—Donald Smeltzer—*Emerison Bks.*, 114 p., illus., \$2.50. An account of the development of man's use of number through the ages.

MECHANICS—Alexander Efron—*Rider*, 112 p., illus., paper, \$1.50. For the general reader or junior college student.

MODERN YUCATECAN MAYA POTTERY MAKING—Raymond H. Thompson—*Soc. for Am. Archaeol.*, 157 p., illus., paper, \$2.50. A study of modern pottery makes it possible to infer parts of the cultural context of prehistoric pottery in the region.

1970 WITHOUT ARMS CONTROL: Implications of Modern Weapons Technology—NPA Special Project Committee on Security Thorough Arms Control—*National Planning Association*, 72 p., paper, \$1.25. (See p. 328.)

NUCLEAR ENERGY—Alexander Efron—*Rider*, 63 p., illus., paper, \$1.25. For students and those in technical positions.

PEPTIC ULCER AND PSYCHOANALYSIS—Angel Garma—*Williams & Wilkins*, 143 p., \$6. From the experience of many years of treating different types of ulcer patients, the author has gained an insight into the etiology and psychopathogenesis of peptic ulcer.

PHENOLIC RESIN CHEMISTRY—N. J. L. Megson—*Academic*, 323 p., illus., \$10.80. Summarizing original papers from leading workers in the field.

PROCEEDINGS OF THE ACADEMY OF SCIENCES OF THE USSR: Geological Sciences Sections—*Consultants Bureau*, 192 p., illus., paper, single issue \$40, \$200 a year. In English translation.

PROCEEDINGS OF THE ACADEMY OF SCIENCES OF THE USSR: Section Biochemistry—*Consultants Bureau*, 70 p., illus., paper, single issue \$15, \$65 a year. In English translation.

PROGRESS IN ORGANIC CHEMISTRY: 4—J. W. Cook, Ed.—*Academic*, 256 p., illus., \$8.80. For

the organic chemist who wishes to observe the broad view of the advancing front of his subject.

THE RUSSIAN LITERATURE OF SATELLITES: Part I—D. E. Okhotsimskii and others—*International Physical Index, Inc.*, 181 p., illus., paper, \$10. Complete translations of six selected articles from a special satellite issue of the Soviet journal, *Progress in Physical Science*, Sept., 1957.

WAVE PROPAGATION AND ANTENNAS—George B. Welch—*Van Nostrand*, 257 p., illus., \$5.75. Based on a series of lectures first given to sophomores at the Lincoln Institute of Northeastern University.

WHAT'S HAPPENED TO OUR HIGH SCHOOLS?—John Francis Latimer—*Public Affairs Press*, 196 p., \$3.25. Report of a four-year study of the needs of our schools.

Science News Letter, May 24, 1958

PSYCHIATRY

Space Travel May Act as Psychoanalyst's Couch

► WHEN HUMANS travel to outer space in manned satellites, they may find the ship acts like the psychoanalyst's couch in releasing material from the unconscious, Capt. George E. Ruff and Capt. Edwin Z. Levy, Wright-Patterson Air Force Base, Ohio, reported to the American Psychiatric Association meeting in San Francisco.

Simulating in the laboratory the stresses of space flight, the investigators found that in the early stages, the individual's characteristic defenses appear in exaggerated form, but few are unable to control the eruption of unconscious material. Later their defenses become more primitive and they reach the limit of their tolerance. Schizoid persons are the first to reach this limit of endurance.

Science News Letter, May 24, 1958

PSYCHIATRY

67% of Hospital Patients Have Psychiatric Illness

► MORE THAN TWO-THIRDS of the patients admitted to the medical service of a large city hospital were found also to have a psychiatric illness, a team of doctors from Mount Sinai Hospital, New York, reported at the American Psychiatric Association meeting in San Francisco.

When psychiatric examinations were carried out on 253 unselected patients admitted to Mount Sinai, 66.8% were found to have psychiatric illness. Of these 36.0% suffered from psychoneurosis, 13.7% from character disorder and 5.5% from overt or latent schizophrenia.

Of those admitted for psychosomatic illnesses such as duodenal ulcers, asthma, colitis, etc., 85% had a diagnosable psychiatric illness.

The ward medical staff either did not notice the mental illness of the patients or did not choose to record a psychiatric diagnosis.

The doctors reporting this study were Drs. M. Ralph Kaufman, Samuel R. Lehrman and Stanley Friedman, all of Mount Sinai Hospital.

Science News Letter, May 24, 1958

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