

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.

BUILDING THE AMATEUR RADIO STATION—Julius Berens—*Rider*, 128 p., illus., paper, \$2.95. For the amateur radio enthusiast who has earned his operating license.

CHICAGOLAND BIRDS: Where and When to Find Them—Ellen Thorne Smith—*Chicago Nat. Hist. Mus.*, 48 p., maps by William J. Beecher, paper, 50¢. Exemplary local publication.

THE COLLEGE INFLUENCE ON STUDENT CHARACTER—Edward D. Eddy, Jr., assisted by Mary Louise Parkhurst and James S. Yakovakis—*Am. Council on Educ.*, 185 p., \$3. Exploratory study in selected colleges of the students' development of intellect and cultivation of character.

COMPARATIVE MORPHOLOGY OF VASCULAR PLANTS—Adriance S. Foster and Ernest M. Gifford, Jr.—*Freeman*, 555 p., illus. by Evan L. Gillespie, \$9. Textbook for one-semester course in plant morphology.

CONDUCTIVE DESIGN OF ACTIVE CIRCUITS—Keats A. Pullen, Jr.—*Rider*, 330 p., \$9.95. Presents tube and transistor design by the coordinated method of static and small-signal design techniques.

DEMON OF THE NORTH—Peter Kroft, transl. from German by Edward Fitzgerald—*Knopf*, 260 p., illus., \$5. The experiences of the author and his family while studying the habits of young wolverines in Lapland.

ELECTRONICS FOR EVERYONE—Monte Upton—*Devin-Adair*, 2nd rev. ed., 386 p., illus., \$6.95. The story of electricity in action: TV, color TV, radio, radar, hi-fi—what they are and how they work.

ELECTROPHORESIS: Theory, Methods, and Applications—Milan Bier, Ed.—*Academic*, 563 p., illus., \$15. Collected essays of value to researchers concerned with proteins, polyelectrolytes, and colloids in general.

ENGINEERING—Edward H. Robie—*Bellman*, 36 p., illus., paper, \$1. No. 14 of Vocational and Professional Monographs.

ENVIRONMENTAL CONSERVATION—Raymond F. Dasmann—*Wiley*, 307 p., illus., \$6.50. Text written from a biological standpoint, considering the history of human populations in relation to natural resources.

ERNEST THOMPSON SETON: Naturalist—Shannon and Warren Garst—*Messner*, 192 p., \$2.95. Biography for boys and girls.

THE EVOLUTION OF CULTURE: The Development of Civilization to the Fall of Rome—Leslie A. White—*McGraw*, 378 p., \$7.50. Anthropologist here demonstrates the validity of a theory of cultural evolution or development.

AN EXPERIMENT IN MENTAL PATIENT REHABILITATION: Evaluating a Social Agency Program—Henry J. Meyer and Edgar F. Borgatta—*Russell Sage*, 114 p., \$2.50. The agency evaluated is the Altro Health and Rehabilitation Services in New York City.

EXPLORING PHYSICS—Richard F. Brinckerhoff, Judson B. Cross and Arthur Lazarus—*Harcourt*, rev. ed., 724 p., illus., \$5.20. Complete senior high school course for college-bound students.

FIFTH TECHNICAL PROGRESS REPORT—W. L. Faith, N. A. Renzetti and L. H. Rogers—*Air Pollution*, 74 p., paper, \$3. Reports on research activities directed toward the automobile exhaust problem.

FILLER METALS FOR JOINING—Orville T. Barnett—*Reinhold*, 244 p., illus., \$7. For the welding engineer and others concerned with material specifications.

HEBREW INSCRIPTIONS AND STAMPS FROM GIBEON—James B. Pritchard—*University Museum*, 32 p., 12 p. of figures, paper, \$1. Monograph on excavations made in 1956 and 1957 in Jordan under the author's direction.

INTRODUCTION TO ZOOLOGY—H. W. Manter and D. D. Miller—*Harper*, 689 p., illus., \$7.50. College textbook.

THE MERCHANTS OF LIFE: An Account of the American Pharmaceutical Industry—Tom Mahoney—*Harper*, 278 p., \$3.75. Detailed stories about more than a score of leading companies and their new life-saving products, for which nine-tenths of the prescriptions are written today.

MITOGENESIS—Howard S. Ducoff and Charles F. Ehret, Eds.—*Univ. of Chicago Press*, 114 p., illus., \$3.25. A report from The Developmental Biology Conference Series held in 1956 under the auspices of the NAS-NRC.

NATIONAL RESEARCH COUNCIL REVIEW 1958—E. W. R. Steacie, President—*Nat. Res. Council (Canada)*, 337 p., illus., paper, 75¢. Reporting the scientific work of the Council during 1957, including some later work.

NEW BIOLOGY 28—M. L. Johnson, Michael Abercrombie and G. E. Fogg, Eds.—*Penguin*, 133 p., illus., paper, 65¢. Articles on Darwin, on the origin of isolation, automatic mechanical self-reproduction and hair.

NEW WORLD IN THE TROPICS: The Culture of Modern Brazil—Gilberto Freyre—*Knopf*, 298 p., \$5. A sociologist examines Brazil's cultural unity and regional diversity, its ethnic and social conditions, its world-famous architecture.

NOISE IN ELECTRON DEVICES—Louis D. Smul-

lin and Hermann A. Haus, Eds.—*Wiley*, 413 p., illus., \$12. Intensive course published jointly with The Massachusetts Institute of Technology.

THE ONSET OF STUTTERING: Research Findings and Implications—Wendell Johnson and Associates—*Univ. of Minn. Press*, 243 p., \$5. Findings show that the listener is more responsible for the development of stuttering than the speaker.

PIONEER SURGEON: Dr. Ephraim McDowell—Josephine Rich—*Messner*, 192 p., \$2.95. Biography for young people.

THE PIROTECHNICA—Vannoccio Biringuccio, transl. from Italian with introd. by Cyril Stanley Smith and Martha Teach Gnudi—*Basic Bks.*, 2nd ed., 477 p., illus., \$8.50. This Italian metallurgical classic is third in the Collector's Series in Science.

PRECIPITATION FROM HOMOGENEOUS SOLUTION—Louis Gordon, Murrell L. Salutsky and Hobart H. Willard—*Wiley*, 187 p., \$7.50. Presents analytical methods for accomplishing precipitation from homogeneous solution so efficiently as to make reprecipitation unnecessary.

RADIATION FROM SLOTS IN CIRCULAR CYLINDERS—Hans Lottrup Knudsen—*Physics, Eng. and Chem. Corp.*, 57 p., 43 p. of figures, paper, \$5.50. Of interest to persons and laboratories working in the field of slot antennas.

READINGS IN GENERAL PSYCHOLOGY—Paul Halmos and Alan Iliffe, Eds.—*Philosophical Lib.*, 251 p., \$6. Representative samples of recent psychological writing in Britain.

REGENERATION IN VERTEBRATES—Charles S. Thornton, Ed.—*Univ. of Chicago Press*, 108 p., illus., \$3.25. Six papers on the vertebrate structures of the eye, the tail and the limbs; one of the Developmental Biology Conference Series.

SIMPLIFIED SATELLITE PREDICTION FROM MODIFIED ORBITAL ELEMENTS—Leonard N. Cormier, Norton Goodwin and Reginald K. Squires—*IGY World Data Center A (Nat. Acad. of Sciences)*, 54 p., illus., paper, \$1. IGY Satellite Report Series No. 7.

SPACE GUIDE—Vincent F. Callahan, Jr., Ed., Don Dwiggin, Contrib. Ed.—*Washington Space Letter*, 173 p., illus., paper, \$10. Concerned with research, development, production and procurement of the National Aeronautics and Space Administration (NASA).

TEACHING SCIENCE THROUGH HOLIDAYS AND SEASONS—Matthew F. Vessel and Herbert H. Wong—*Fearon Publishers*, 36 p., illus., paper, \$1.50. Science bulletin boards, ideas for exhibits and activities.

TECHNICAL REPORTING—Joseph N. Ulman and Jay R. Gould—*Holt*, rev. ed., 382 p., \$5. For students and practitioners of engineering and the sciences who have reporting jobs to do.

THE VERTEBRATE STORY—Alfred S. Romer—*Univ. of Chicago Press*, 4th ed., 437 p., illus., \$7. Story of the backbone animals, from the origins of the most elementary forms of fish life to the development of the human body, formerly called *Man and the Vertebrates*.

WELDING OF PLASTICS—J. Alex Neumann and Frank J. Bockhoff—*Reinhold*, 279 p., illus., \$7.25. Comprehensive treatment of all phases of this subject ranging from initial design procedures to final fabrication methods.

WHAT MAKES GUIDED MISSILES TICK—Barron Kemp—*Am. Electronics Co.*, 59 p., illus., paper, \$1.50. Explains guided missiles, their propulsion, telemetering and satellites in simple language.

YOUR DENTIST AND YOU: A Book to Improve the Patient's Understanding—Charles M. White—*Am. Press*, 91 p., \$2.50. A dentist, father of two dentists, tells of what the profession can do today for the patient.

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