

Books of the Week

For the editorial information of our readers, books received for review 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.

ABC'S OF MOBILE RADIO—Richard Martin—*Sams*, 96 p., illus., paper, \$1.95. Basic introduction to two-way radio, describes the use and operation of transmitters, receivers, power supplies and antennas.

ADVANCES IN ELECTRONIC CIRCUIT PACKAGING, VOL. 1—Gerald A. Walker, Ed.—*Plenum Press*, 2nd ed., 381 p., illus., \$12.50. Areas covered include packaging for outer space vehicles, underwater and high impact packaging, and packaging economies.

ANALYTICAL MECHANICS—Grant R. Fowles—*Holt*, 278 p., illus., \$6. Textbook written for junior course in analytical mechanics for students majoring in physics, physical science or engineering science.

ATOMIC-ABSORPTION SPECTROPHOTOMETRY—W. T. Elwell and J. A. F. Gidley—*Macmillan*, 102 p., illus., \$5. Discusses theory and equipment, and developments in those fields of analysis in which atomic-absorption spectrophotometry has had useful applications.

THE CHEMISTRY AND MANUFACTURE OF COSMETICS, Vol. 1: Background—Maison G. DeNavarre, foreword by Stephen Wilson—*Van Nostrand*, 2nd ed., 389 p., illus., \$10.75. Considers the manufacture of cosmetics in the light of the latest scientific and technological advances.

COLLECTED PAPERS (NOTE E MEMORIE), Vol. I: Italy 1921-1938—Enrico Fermi; Emilio Segre, Ed.-in-Chief—*Univ. of Chicago Press*, 1043 p., illus., \$15. First memorial volume of Fermi's scientific writings in English, Italian and German, with biographical introduction and complete list of all known writings published up to Fermi's departure from Italy.

CORROSION AND PROTECTION OF MATERIALS USED IN INDUSTRIAL EQUIPMENT—I. Ya. Klinov, Ed., transl. from Russian—*Consultants*, 228 p., illus., \$15. Contains recent investigations concerning the theory and practical methods of protection against corrosion.

DEALING WITH DELINQUENTS—W. L. Herbert and F. V. Jarvis—*Emerson*, 208 p., \$3.75. Shows how some delinquents may be treated in their own home environment in such a way that they are able to conform to standards of behavior which the community can accept.

THE DEVELOPMENT OF HOMEOSTASIS: With Special Reference to Factors of the Environment—E. F. Adolph, Chmn.—*Czechoslovak Acad. of Sciences (Academic Press)*, 218 p., illus., \$7. Proceedings of symposium held in 1960, dealing with physiological regulations, their genetic aspects, and the concept of body fluids and their maintenance.

DISEASES OF TURFGRASSES—Houston B. Couch—*Reinhold*, 289 p., illus., \$10. Reference and text on balanced turfgrass management, providing information on the identification, nature and control of the various fungus and nematode-incited diseases of turfgrasses.

THE EMERGING CITY: Myth and Reality—*Free Press*, 232 p., \$5.75. Summarizing the results of recent survey research, the author constructs a composite, metropolitan "Middletown" and considers its effects on the form and quality of urban life now and in the future.

THE EYE, Vol. 1: Vegetative Physiology and Biochemistry—Hugh Davson, Ed.—*Academic*, 440 p., illus., \$14. Advanced text on the physiology of the eye, with emphasis on function; for research workers in all branches of ocular

physiology and for teachers in physiology, physiology and ophthalmology.

FISHES OF SOUTH DAKOTA—Reeve M. Bailey and Marvin O. Allum—*Univ. of Mich., Mus. of Zoology*, 131 p., illus., paper, \$2.50. Short history of S. D. ichthyology, collecting stations and annotated list of fishes.

FLOWERS OF FIELD AND FOREST—Clarence J. Hylander—*Macmillan*, 231 p., photographs and drawings by author, \$3.75. A guide to the identification of wild flowers, stressing the ecological approach.

THE FRESH-WATER FISHES OF NORTH BORNEO—Robert F. Inger and Chin Phui Kong—*Chicago Nat. Hist. Mus.*, 268 p., illus., \$6.50. Presents basic information on species now known in such a way that data can be used by future reviewers of the various groups

FUNDAMENTAL CHEMISTRY—Donald H. Andrews and Richard J. Kokes—*Wiley*, 814 p., illus., \$7.95. Textbook for the beginning student, including discussions of quantum mechanics, thermodynamics and chemical kinetics.

INTERNATIONAL BIBLIOGRAPHY OF THE SOCIAL SCIENCES, 1960, Vol. IX: Political Science. Vol. X: Sociology—International Committee for Social Sciences Documentation—*Aldine Pub. Co.*, 334 p., 287 p., \$10 each. Truly international in its coverage of scientific articles published in 1960, these bibliographies, classified by the decimal system, continue the program of documentation initiated by UNESCO in 1952.

INTRODUCTION TO ATOMIC AND NUCLEAR PHYSICS—Henry Semat—*Holt*, 4th ed., 628 p., illus., \$7.50. Introductory treatment, with major emphasis on experimental foundations, intended for science and engineering students with background of general physics and familiarity with calculus.

INTRODUCTION TO ELECTRONIC SERVICING FOR THE BEGINNER—J. A. Stanley—*Sams*, 159 p., illus., paper, \$2.95. Covers basic troubleshooting methods for homemade electronic gear, ham transmitters, radio, TV, hi-fi and stereo.

AN INTRODUCTION TO THE PHILOSOPHY OF SCIENCE—Arthur Pap, epilogue by Brand Blanshard—*Free Press*, 444 p., \$7.50. Addressed to scientists and philosophers interested in the conceptual foundations and methodology of modern science.

IRRADIATION OF MICE AND MEN—John F. Loutit—*Univ. of Chicago Press*, 154 p., illus., \$5. Authoritative review and interpretation of evidence gained from radiobiological research of the effects of ionizing radiations on longevity and malignant changes, and research in calcium and strontium metabolism.

PLAY MATHEMATICS—Harry Langman—*Hafner*, 216 p., diagrams, \$4.95. Mathematical recreation, original exercises for the intelligent layman and mathematician.

SOIL MAPPING FOR HIGHWAY ENGINEERS: A Recommended Procedure for the State of Pennsylvania—Harmer A. Weeden—*Pa. State Univ. College of Engineering*, 141 p., illus., paper, \$3.

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Survey of mapping methods and model for operational applications.

SPACE STATIONS—Erik Bergaust—*Putnam*, 48 p., illus., \$2.50. A picture round-up of current plans for space stations, for young people.

THE STATE UNIVERSITIES AND DEMOCRACY—Allan Nevins—*Univ. of Ill. Press*, 171 p., \$2.95. Analytical historical study of the role of land-grant universities in serving the ideals of democracy.

THERMOPHYSICS—Allen L. King—*Freeman*, 369 p., illus., \$9.50. Designed for students who had college physics and calculus, this textbook covers that broad area of physics dealing with the temperature concept.

TRANSISTOR SUBSTITUTION HANDBOOK—Howard W. Sams Engineering Staff—*Sams*, 3rd ed., 127 p., illus., paper, \$1.50. Includes basing diagrams, polarity identifications and manufacturers for over 4000 transistor types.

THE USSR OLYMPIAD PROBLEM BOOK: Selected Problems and Theorems of Elementary Mathematics—D. O. Shklarsky, N. N. Chentzov and I. M. Yaglom, rev. & ed. by Irving Sussman, transl. by John Matkovich—*Freeman*, 452 p., \$9. Collection of interesting problems posed by leading Soviet mathematician at USSR competitive examinations held for students of high ability in secondary schools.

USING THE SLIDE RULE IN ELECTRONIC TECHNOLOGY—E. Charles Alvarez—*Rider, J. F.*, 108 p., illus., paper, \$2.50. Self-study text designed to help student develop speed and accuracy in solving basic electronics problems.

YOUR BODY and How It Works—Patricia Lauber—*Random House*, 77 p., illus. by Stephen Rogers Peck, photographs by Florence Burns, \$1.95. Explains human physiology to young boys and girls.

YOUR TEENAGER'S MIND AND BODY—Flanders Dunbar, ed. by Benjamin Linder—*Hawthorn Bks*, 286 p., \$4.95. Psychiatrist, in this post-humously published book, helps the parent understand the changes in the teenager during transition from adolescent to adult.

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