

testing. The papers were concerned with plastics, solid fuels, cushioning materials, textiles, and metals.

Davids, Norman, Ed. *International Symposium on Stress Wave Propagation in Materials*. Interscience, New York, 1960. 350 pp. \$5. The symposium, sponsored by the Office of Ordnance Research and the Pennsylvania State University, was attended by over 200 engineers and scientists, representing industrial, university, and government laboratories from ten countries.

Ernst, George C. *Ultimate Moments and Shears in Continuous Reinforced Concrete Beams*. Univ. of Michigan Press, Ann Arbor, 1960. 46 pp. + plates. \$4.

Gatos, Harry C., Ed. *Properties of Elemental and Compound Semiconductors*. Interscience, New York, 1960. 351 pp. \$8.50. Volume 5 in the Metallurgical Society Conferences series.

Henderson, F. M. *Elliptic Functions with Complex Arguments*. Univ. of Michigan Press, Ann Arbor, 1960. 43 pp. + pts. 1-4. \$8.

Levine, Daniel, et al. *Radargrammetry*. McGraw-Hill, New York, 1960. 351 pp. \$12.

Lion, Kurt S. *Instrumentation in Scientific Research*. Electrical input transducers. McGraw-Hill, New York, 1959. 339 pp.

Maxwell, E. A. *Advanced Algebra*. pt. 1. Cambridge Univ. Press, New York, 1960. 323 pp. \$2.75.

Mendelssohn, K., Ed. *Progress in Cryogenics*. vol. 2. Academic Press, New York, 1960. 287 pp. \$11.50. Contents: "The storage and handling of cryogenic liquids" (G. H. Zenner); "The gas refrigerating machine and its position in cryogenic technique" (J. W. L. Kohler); "The separation of deuterium on an industrial scale by low-temperature distillation" (M. P. Malkov, A. G. Zel'dovich, A. B. Fradkov, and I. B. Danilov of the Institute for Physical Problems, Academy of Science of the U.S.S.R.); "Low-temperature bubble chambers" (N. C. Barford); "The 1958 scale of temperatures for the liquid helium-4 region" (H. van Dijk); "Resistance thermometers for low temperatures" (C. R. Barber); "The three level solid state maser" (E. O. Schulz-Du Bois); "Methods of nuclear orientation" (E. Amblor).

Menzel, Donald H., Ed. *The Radio Noise Spectrum*. Harvard Univ. Press, Cambridge, Mass., 1960. 191 pp. \$7.50.

Minkoff, G. J. *Frozen Free Radicals*. Interscience, New York, 1960. 157 pp. \$5.

Olkin, Ingram, et al., Eds. *Contributions to Probability and Statistics*. Essays in honor of Harold Hotelling. Stanford Univ. Press, Stanford, Calif., 1960. 526 pp. \$6.50. The 42 papers by associates of Hotelling include both applied and theoretical material in the fields of statistics, probability theory, economics, and biostatistics. An eight-page bibliography of Hotelling's publications (other than reviews) is included.

Runcorn, S. K., Ed. *Methods and Techniques in Geophysics*. vol. 1. Interscience, New York, 1960. 383 pp. \$10.

Rusk, Rogers D. *Introduction to College Physics*. Appleton-Century-Crofts, New York, ed. 2, 1960. 955 pp. \$8.

Sadler, D. H., Ed. *Transactions of the International Astronomical Union*, vol. 10. Cambridge Univ. Press, New York, 1960. 783 pp. \$17.50. Contains the draft reports of the individual commissions, reports of the meeting, and reports of the four joint discussions held during the 10th general assembly (held in Moscow). It does not contain the proceedings of the symposia held in conjunction with the meeting; they are being published separately.

Schneer, Cecil J. *The Search for Order*. The development of the major ideas in the physical sciences from the earliest times to the present. Harper, New York, 1960. 415 pp. \$6.

Seifert, William W., and Carl W. Steeg, Jr., Eds. *Control Systems Engineering*. McGraw-Hill, New York, 1960. 978 pp. \$15. Intended as a textbook for a graduate-level course in control and as a source of reference material for the control-system engineer.

Sharpe, J. *Nuclear Radiation Measurement*. Simmons-Boardman, New York, 1960. 78 pp. \$2.75.

Shklovsky, I. S. *Cosmic Radio Waves*. Translated by Richard B. Rodman and Carlos M. Varsavsky. Harvard Univ. Press, Cambridge, Mass., 1960. 460 pp. \$12.50.

Smale, A. A., and L. R. Wager, Eds. *Methods in Geochemistry*. Interscience, New York, 1960. 471 pp. \$13.60.

Stacey, M., J. C. Tatlow, and A. G. Sharpe, Eds. *Advances in Fluorine Chemistry*. vol. 1. Academic Press, New York; Butterworths, London, 1960. 210 pp. \$8.

Strobel, Howard S. *Chemical Instrumentation*. A systematic approach to instrumental analysis. Addison-Wesley, Reading, Mass., 1960. 671 pp. \$9.75. Text for advanced undergraduate or graduate work.

Timmerhaus, K. D., Ed. *Advances in Cryogenic Engineering*. vol. 5. Plenum Press, New York, 1960. 592 pp. \$13.50. Proceedings of the 1959 conference held at the University of California (Berkeley) on 2-4 September.

Tipton, C. R., Jr., Ed. *Reactor Handbook*. vol. 1, *Materials*. Interscience, New York, ed. 2, 1960. 1222 pp. \$36.50. This series (four volumes are planned) constitutes a revision of the *Reactor Handbook* published by the Atomic Energy Commission in 1955. The first part of this volume covers topics related to health and safety standards and procedures, radiation damage, D₂O-H₂O separation, and zirconium-hafnium separation; the other parts cover fuel materials, cladding and structural materials, control materials, moderator materials, and shielding materials. The 118 contributors and their professional affiliations are given.

Ubbelohde, A. R., and F. A. Lewis. *Graphite and Its Crystal Compounds*. Oxford Univ. Press, New York, 1960. 230 pp. \$5.60.

Vavra, M. H. *Aero-Thermodynamics and Flow in Turbomachines*. Wiley, New York, 1960. 625 pp. \$14.50.

Wiech, Raymond E., Jr., and Robert F. Strauss. *Fundamentals of Rocket Propulsion*. Reinhold, New York; Chapman and Hall, London, 1960. 151 pp. \$5.50.

Wilson, J. G., and S. A. Wouthuysen, Eds. *Progress in Elementary Particle and*

Cosmic Ray Physics. vol. 5. North-Holland, Amsterdam; Interscience, New York, 1960. \$10.75.

Yatsimirskii, K. B., and V. P. Vasil'ev. *Instability Constants of Complex Compounds*. Translated by D. A. Paterson; R. H. Prince, Translation Editor. Pergamon Press, New York, 1960. 226 pp. 42s.

Reprints

Altman, David, James M. Carter, S. S. Penner, and Martin Summerfield. *Liquid Propellant Rockets*. Princeton Univ. Press, Princeton, N.J., 1960. 196 pp. \$2.95. This volume is the first in the new series "Princeton Aeronautical Paperbacks." The series will make available in small paperback volumes those portions of the larger Princeton Series which it is felt will be most useful to both students and research engineers.

Bellairs, Angus d'A. *Reptiles*. Life history, evolution, and structure. Harper, New York, 1960 (reprint of ed. 1, 1957). 192 pp. \$1.35.

Bragg, Sir William. *The Universe of Light*. Dover, New York, 1960. 306 pp. \$1.85. Unabridged republication of ed. 1. A nontechnical explanation of the phenomenon of light.

Cain, A. J. *Animal Species and Their Evolution*. Harper, New York, 1960 (reprint of ed. 1, 1954). 190 pp. \$1.35.

Davenport, H. *The Higher Arithmetic*. An introduction to the theory of numbers. Harper, New York, 1960 (reprint of ed. 1, 1952). 172 pp. \$1.35.

Findlay, Alexander. *Chemistry in the Service of Man*. Harper, New York, 1960 (reprint of ed. 8, 1957). 336 pp. \$1.75.

Hayes, Wallace D. *Gasdynamic Discontinuities*. Princeton Univ. Press, Princeton, N.J., 1960. 76 pp. \$1.45. Number 3 in the Princeton Aeronautical Paperbacks series.

Huggest, Clayton, C. E. Bartley, and Mark M. Mills. *Solid Propellant Rockets*. Princeton Univ. Press, Princeton, N.J., 1960. 176 pp. \$2.45. Number 2 in the Princeton Aeronautical Paperbacks series.

Jones, Robert T., and Doris Cohen. *High Speed Wing Theory*. Princeton Univ. Press, Princeton, N.J., 1960. 248 pp. \$2.95. Number 6 in the Princeton Aeronautical Paperbacks series.

Lighthill, M. J. *Higher Approximations in Aerodynamic Theory*. Princeton Univ. Press, Princeton, N.J. 1960. 156 pp. \$1.95. Number 5 in the Princeton Aeronautical Paperbacks series.

Littlewood, D. E. *The Skeleton Key of Mathematics*. A simple account of complex algebraic theories. Harper, New York, 1960 (reprint of ed. 1, 1949). 138 pp. \$1.25.

Partington, J. R. *A Short History of Chemistry*. Harper, New York, 1960 (reprint of ed. 3, 1957). 429 pp. \$1.95.

Read, John. *A Direct Entry to Organic Chemistry*. Harper, New York, 1960 (reprint of 1959 edition). 282 pp. \$1.50.

Sears, W. R. *Small Perturbation Theory*. Princeton Univ. Press, Princeton, N.J., 1960. 72 pp. \$1.45. Number 4 in the Princeton Aeronautical Paperbacks series.