

knowledge of the calculus. This volume is cosmology-centered: Berry begins with a chapter on cosmography and ends with a discussion of the primeval ylem. —FCB

new books

Particles, Nuclei and High-Energy Physics

The Theory of Multiple Processes. Yu. P. Nikitin, I. P. Rosental. 230 pp. Atomizdat, Moscow, 1976. (In Russian, price not stated)

Proceedings of the Conference on Neutron Scattering, Vols. 1 and 2 (Gatlinburg, Tenn., June 1976). R. M. Moon, ed. 1172 pp. (Available as Conf-760601-P1 and P2 from NTIS, US Dept. of Commerce, Springfield, Va. 22161 for \$13.75)

Elementary Particle Physics (Springer Tracts in Modern Physics, Vol. 79). H. Rollnik, P. Stichel, E. Paul. 145 pp. Springer-Verlag, New York, 1976. \$26.30.

Proceedings of the International Conference on the Interactions of Neutrons with Nuclei, Vols. 1 and 2 (Lowell, Mass., July 1976). E. Sheldon, ed. 1645 pp. Technical Information Center, Energy Research and Development Administration, Oak Ridge, Tenn., 1976. (Available as Conf-760715-P1 and P2 from NTIS, US Dept. of Commerce, Springfield, Va. 22161 for \$21.25)

Fourier Transform N.M.R. Spectroscopy. D. Shaw. 357 pp. Elsevier, Amsterdam, 1976. \$49.75

Spallation, Nuclear Reactions and Their Applications. B. S. P. Shen, M. Merker, eds. 235 pp. D. Reidel, Boston, 1976. \$27.50

Atomic, Molecular and Chemical Physics

Treatise on Solid State Chemistry, Vols. 3 and 4. N. B. Hannay, ed. 774 and 721 pp., respectively. Plenum, New York, 1976. \$45.00 each volume

Beam-Foil Spectroscopy (Topics in Current Physics, Vol. 1). S. Bashkin, ed. 318 pp. Springer-Verlag, New York, 1976. \$28.30

Introduction to the Physical Chemistry of the Vitreous State. P. Balta, E. Balta. 287 pp. Abacus, Tunbridge Wells, England (US distributor: ISBS Inc, P.O. Box 555, Forest Grove, Ore. 97116), 1976. \$38.50

Thermochemical Kinetics, 2nd edition: Methods for the Estimation of Thermochemical Data and Rate Parameters. S. W. Benson. 320 pp. Wiley, New York, 1976. \$22.50

Molecular Spectroscopy: Modern Research, Vol. 2. K. N. Rao, ed. 279 pp. Academic, New York, 1976. \$29.50

Handbook of Atomic Data. S. Fraga, J. Karwowski, K. M. S. Saxena. 551 pp. Elsevier, New York, 1976. \$49.75

Atoms and Molecules in Electric Fields. N. Ryde. 455 pp. Almqvist and Wiksell Inter-

national, Stockholm, 1976. 315.00 Sw. Kr.

Optics and Acoustics

Optics and Information Theory. F. T. S. Yu. 203 pp. Wiley, New York, 1976. \$14.95

Musical Acoustics: Selected Reprints. T. Rossing, ed. 212 pp. American Association of Physics Teachers, SUNY, Stony Brook, N.Y., 1976. \$4.55 for AAPT members, \$6.50 for non-members

Electricity, Magnetism and Fields

Electricity and Magnetism, 3rd edition. B. I. Bleaney, B. Bleaney. 762 pp. Oxford U.P., New York, 1976. \$38.50 clothbound, \$22.00 paperbound

Quantum Electronics and Lasers

Electronic Transition Lasers (Proc. of a Second Summer Colloquium held at the Marine Biology Laboratory Conference Center, Woods Hole, Mass., September 1975). J. I. Steinfeld, ed. 311 pp. MIT, Cambridge, 1976. \$14.95

Lasers and Their Applications. M. J. Beesley. 253 pp. Halsted, New York, 1976. \$19.50

Handbook of Chemical Lasers. R. W. F. Gross, J. F. Bott, eds. 744 pp. Wiley, New York, 1976. \$39.95

Tunable Lasers and Applications (Proc. of the Loen Conference, Norway, 1976). A. Mooradian, T. Jaeger, P. Stokseth, eds. 404 pp. Springer-Verlag, New York, 1976. \$24.90

Fluids and Plasmas

Third Topical Conference on Pulsed High Beta Plasmas (Proc. of a conf. held at Culham Laboratory, Abingdon, Oxon, UK, September 1975). D. E. Evans, ed. 625 pp. Pergamon, Oxford, England, 1976. \$30.00

Plasma Physics. E. W. Laing. 163 pp. Sussex U.P., London, 1976. £5.00

Crystallography, Low-Temperature and Solid-State Physics

Crystal Growth. B. R. Pamplin, ed. 672 pp. Pergamon, Elmsford, N.Y., 1976. \$45.00 clothbound, \$20.00 paperbound

X-Ray Diffraction Topography. B. K. Tanner. 174 pp. Pergamon, Oxford, England, 1976. £6.25

Lectures on Solid State Physics (International Series in Natural Philosophy, Vol. 79). G. Busch, H. Schade. 538 pp. Pergamon, Elmsford, N.Y., 1976. \$35.00

Progress in Surface and Membrane Science, Vol. 11. D. A. Cadenhead, J. F. Danielli, eds. 345 pp. Academic, New York, 1976. \$21.50

High Resolution NMR Spectroscopy in Solids (NMR Basic Principles and Progress, Vol. 11). M. Mehring. 246 pp. Springer-Verlag, New York, 1976. \$27.90

Astronomy, Cosmology and Space Physics

Man Discovers the Galaxies. R. Berendzen, R. Hart, D. Seeley. 228 pp. Science History

(Neale Watson), New York, 1976. \$15.95 clothbound, \$6.95 paperbound

Comets: An Illustrated Introduction. P. Moore. 149 pp. Scribner's, New York, 1976. \$7.95

Cosmology Now. L. John, ed. 168 pp. Taping, New York, 1976. \$10.95

Theory and Mathematical Physics

Course of Theoretical Physics, Vol. 1: Mechanics, 3rd edition. L. D. Landau, E. M. Lifshitz. 169 pp. Pergamon, Oxford, England, 1976. £6.25

Über den Satz von Trotter mit Anwendungen auf die Approximationstheorie. M. Becker. 36 pp. Westdeutscher Verlag, Wiesbaden, Germany, 1976. DM 9.00

Representations of the Rotation and Lorentz Groups: An Introduction (Lecture Notes in Pure and Applied Mathematics, Vol. 16). M. Carmeli, S. Malin. 117 pp. Marcel Dekker, New York, 1976. \$13.50

Mathematical Physics and Physical Mathematics (Proc. of an Int. Symposium organized by the Mathematical Institute of the Polish Academy of Sciences, The Institute for Nuclear Research and Warsaw University, held in Warsaw, March 1974). K. Maurin, R. Raczka, eds. 504 pp. D. Reidel, Boston, 1976. \$39.00

The Physics of Vibrations and Waves, 2nd edition. H. J. Pain. 357 pp. Wiley, New York, 1976. \$22.00 clothbound, \$10.95 paperbound

Instrumentation and Techniques

Handbook for Chemical Technicians. H. J. Strauss (M. Kaufman, ed.). 454 pp. McGraw-Hill, New York, 1976. \$19.50

Thyristor Physics (Applied Physics and Engineering, Vol. 12). A. Blicher. 304 pp. Springer-Verlag, New York, 1976. \$29.80

Control of Flow Separation: Energy Conservation, Operational Efficiency, and Safety. P. K. Chang. 523 pp. McGraw-Hill, New York, 1976. \$47.50

Applied Spectroscopy Reviews, Vol. 11. E. G. Brame Jr, ed. 337 pp. Marcel Dekker, New York, 1976. \$34.50

Heat, Thermodynamics and Statistical Physics

Phase Transitions and Critical Phenomena, Vol. 5B. C. Domb, M. S. Green, eds. 412 pp. Academic, London, 1976. £13.50

Statistical Mechanics and Properties of Matter: Theory and Applications. E. S. R. Gopal. 302 pp. Halsted, New York, 1976. \$18.50 paperbound

Energy and Environment

Solar Energy: Selected Reprints. D. K. McDaniels, ed. 179 pp. American Association of Physics Teachers, SUNY, Stony Brook, N.Y., 1976. \$4.55 for AAPT members, \$6.50 for non-members

Miscellany

Van Nostrand's Scientific Encyclopedia, 5th edition. D. M. Considine, ed. 2370 pp. Van Nostrand, New York, 1976. \$67.50 □