

new books

Thermodynamics and Statistical Physics

A First Course in the Mathematical Foundations of Thermodynamics. D. R. Owen. 134 pp. Springer-Verlag, New York, 1984. \$26.00. *undergraduate text*

Applications of the Monte Carlo Method in Statistical Physics. Topics in Modern Physics. K. Binder, ed. 311 pp. Springer-Verlag, New York, 1984. \$32.00. *compendium*

Equilibrium Thermodynamics. Third Edition. C. J. Adkins. 285 pp. Cambridge, New York, 1984. \$39.50. *undergraduate text*

Principles of Energetics. K. S. Spiegler. 168 pp. Springer-Verlag, New York, 1983. *intermediate text*

Optics and Acoustics

Encyclopedia of Physics. Volume 25/2d. Light and Matter Id. L. Genzel, ed. 600 pp. Springer-Verlag, New York, 1984. \$111.20

Progress in Optical Communication. Vol. 2. IEEE Reprint Series 4. P. J. B. Clarri-coats, ed. 329 pp. IEEE, Piscataway, N.J., 1982. \$56.00

Lamps and Lighting. Third Edition. M. A. Cayless, A. M. Marsden, eds. 522 pp. Arnold, Baltimore, Md., 1983. \$49.50. *manual*

Integrated Optics: Theory and Technology. Second Edition. Series in Optical Sciences 33. R. G. Hunsperger. 321 pp. Springer-Verlag, New York, 1984. \$29.00. *graduate text*

Optical Waveguide Theory. A. W. Snyder, J. D. Love. 734 pp. Methuen, New York, 1984. \$29.95. *undergraduate text and reference*

Photoelectron Spectroscopy: An Introduction to Ultraviolet Photoelectron Spectroscopy in the Gas Phase. Second Edition. J. H. D. Eland. 271 pp. Butterworths, Boston, Mass., 1984. \$49.95 cloth, \$25.00 paper. *graduate text*

Interferometry. Second Edition. W. H. Steel. 308 pp. Cambridge U.P., New York, 1984. \$39.50. *graduate text*

Multiresolution Image Processing and Analysis. Ser. in Information Science 12. From Workshop, Leesburg, Virginia, July 1982. A. Rosenfeld, ed. 385 pp. Springer-Verlag, New York, 1984. \$29.00

Optical Systems Design. R. Kingslake. 323 pp. Academic, New York, 1983. \$32.00. *reference for scientists trained outside optics*

Solid-State Physics and Electronics

Nuclear Physics and Solid State Physics Symposium. Part I: Nuclear Physics. Mysore University, Mysore, India, December 1983. 81 pp. Department of Atomic Energy, Government of India, 1984. *no price stated*

Nuclear Physics and Solid State Physics Symposium. Part II: Solid State Physics. Mysore University, Mysore, India, December 1983. 170 pp. Department of Atomic

Energy, Government of India, 1984. *no price stated*

Magnetic Phase Transitions. Proc. Summer School, Ettore Majorana Center, Erice, July 1983. Ser. in Solid State Sciences 48. M. Ausloos, R. J. Elliott, eds. 269 pp. Springer-Verlag, New York, 1984. \$29.00

Ferrites for Inductors and Transformers. Ser. on Magnetic Materials and Their Properties. E. C. Snelling, A. D. Giles, 167 pp. Wiley, New York, 1984. \$46.95. *reference*

Field, Thermionic, and Secondary Electron Emission Spectroscopy. A. Modinos. 375 pp. Plenum, New York, 1984. \$55.00. *text and reference*

The Physics of Hydrogenated Amorphous Silicon 2. Topics in Applied Physics 56. J. D. Joannopoulos, G. Lucovsky, eds. Springer-Verlag, New York, 1984. \$39.00

Electro-Optical and Magnetic-Optical Properties of Liquid Crystals. L. Blinov. 341 pp. Wiley, New York, 1983. \$74.95. *reference*

Superconducting Magnets. Monographs on Cryogenics. M. N. Wilson. 335 pp. Oxford, New York, 1984. \$39.00. *reference for engineers and physicists*

Particles, Nuclei and High-Energy Physics

Fast Nuclear Rotation. Oxford Studies in Physics. Z. Szymanski. 241 pp. Oxford, New York, 1984. \$39.00

Atomic, Molecular and Chemical Physics

Progress in Atomic Spectroscopy. Physics of Atoms and Molecules Ser. C. H. J. Beyer, H. Kleinpoppen, eds. 617 pp. Plenum, New York, 1984. \$85.00

Muon and Muonium Chemistry. D. C. Walker. 179 pp. Cambridge, New York, 1983. \$49.50. *graduate text and reference*

Direct Nuclear Reactions. N. K. Glendenning. 378 pp. Academic Press, New York, 1983. \$62.00. *introduction and reference*

Fluids and Plasmas

A First Course in Fluid Dynamics. A. R. Paterson. 528 pp. Cambridge U.P., New York, 1984. \$59.50 cloth, \$24.95 paper

Materials Science and Condensed Matter

Current Trends in Atomic Spectroscopy. Workshop, Tucson, October 1982. Committee on Line Spectra of the Elements—Atomic Spectroscopy. Commission on Physical Sciences, Mathematics and Resources. 81 pp. National Academy Press, Washington, D.C., 1984. *free on request*

Molecular Beam Epitaxy of III-V Compounds: A Comprehensive Bibliography 1958-1983. K. Ploog, K. Graf. 222 pp. Springer-Verlag, New York, 1984. \$8.00

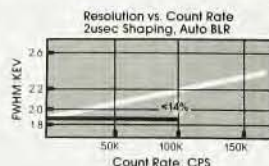
Optical Waves in Crystals. Series in Pure and Applied Optics. A. Yariv, P. Yeh. 589 pp. Wiley, New York, 1984. \$49.95 *intermediate text and reference*

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