

The following recently published books, relevant to materials science, have come to *MRS Bulletin's* attention. Some of the books listed here may be reviewed in future issues of *MRS Bulletin*.

Books

Aluminum Rolling: Process Principles and Their Applications, R.V. Singh, TMS Publishing, Warrendale, 2000, 574 pp., \$94.00, ISBN 0-87339-474-7.

Characterization by Radiation Damage by Transmission Electron Microscopy, M.L. Jenkins and M. A. Kirk, Institute of Physics Publishing, Bristol, 2001, 224 pp., \$110.00, ISBN 0-7503-0748-x.

The Coming of Materials Science, Robert Cahn, Pergamon/Elsevier Science, Oxford, 2001, 568 pp., \$64.00, ISBN 0-08-042679-4.

Compositional and Failure Analysis of Polymers, John Schiers, John Wiley & Sons, New York, 2000, 806 pp., \$185.00, ISBN 0-471-62534-5.

Crystal Field Handbook, D.J. Newman and B.K.C. Ng, Cambridge University Press, Cambridge, 2000, 290 pp., \$95.00, ISBN 0-521-59124-4.

Designing Safer Polymers, Paul Anastas, Paul Bickart, and Mary Kirchoff, John Wiley & Sons, New York, 2000, 128 pp., \$59.95, ISBN 0-471-39733-4.

Electrolytes at Interfaces, S. Durand-Vidal and J.-P. Simonin, Kluwer Academic Publishers, Dordrecht, 2000, 370 pp., \$157.00, ISBN 0-7923-5922-4.

Electron Spectroscopies Applied to Low-Dimensional Materials, H.P. Hughes and H.I. Starnberg, Kluwer Academic Publishers, Dordrecht, 2000, 516 pp., \$210.00, ISBN 0-7923-6526-7.

Equilibrium Statistical Mechanics, Gene F. Mazenko, John Wiley & Sons, Cambridge, 2000, 613 pp., \$95.00, ISBN 0-471-32839-1.

Fundamentals of Carrier Transport, Mark Lundstrom, Cambridge University Press, New York, 2000, 425 pp., \$54.95, ISBN 0-521-63134-3.

Gels Handbook 1, The Fundamentals, Yoshihito Osada and Kanji Kajiwara, Academic Press, San Diego, 2001, 421 pp., \$1200.00/4-vol. set, ISBN 0-12-394961-0;
Gels Handbook 2, Functions, 420 pp., ISBN 0-12-394962-9;
Gels Handbook 3, Applications, 510 pp., ISBN 0-12-394963-7;
Gels Handbook 4, Environment: Earth Environment and Gels, 158 pp., ISBN 0-12-394964-5.

Graphite and Precursors, Pierre Delhaes, Gordon & Breach Science Publishers, Amsterdam, 2001, 297 pp., \$85.00, ISBN 90-5699-228-7.

Handbook of Hydrothermal Technology, K. Byrappa and Masahiro Yoshimura, William Andrew Publishing, Norwich, 2001, 870 pp., \$175.00, ISBN 0-8155-1445-x.

Handbook of Thin Film Deposition Techniques, Krishna Seshan, William Andrew Publishing, Norwich, 2000, 420 pp., \$145.00, ISBN 0-8155-1442-5.

High Temperature Properties and Thermal Decomposition of Inorganic Salts with Oxyanions, Kurt H. Stern, CRC Press LLC, Boca Raton, 2001, 265 pp., \$179.95, ISBN 0-8493-0256-0.

Hyper-Structured Molecules, Chemistry, Physics, and Applications, Hiroyuki Sasabe, Gordon & Breach Science Publishers, Amsterdam, 2001, 259 pp., \$120.00, ISBN 90-5699-215-5.

Industrial Polymer Handbook, 4 Volumes, Edward Wilks, John Wiley & Sons, New York, 2001, 2500 pp., \$780.00, ISBN 3-527-30260-3.

Inorganic and Organometallic Polymers, Ronald Archer, John Wiley & Sons, New York, 2001, 264 pp., \$89.95, ISBN 0-471-24187-3.

Integrated Design and Manufacture Using Fiber-Reinforced Polymeric Composites, M.J. Owen, V. Middleton, and I.A. Jones, CRC Press, Boca Raton, 2000, 416 pp., \$169.95, ISBN 0-8493-0858-5.

Introduction to Diffraction in Materials Science and Engineering, Aaron D. Krawitz, John Wiley & Sons, New York, 2001, 408 pp., \$110.00, ISBN 0-471-24724-3.

Introduction to Ferrous Materials, Vinod K. Wadhawan, Gordon & Breach Science Publishers, Amsterdam, 2000, 740 pp., \$95.00, ISBN 90-5699-286-4.

Introduction to Physical Polymer Science, L.H. Sperling, John Wiley & Sons, New York, 2001, 720 pp., \$89.95, ISBN 0-471-32921-5.

Introduction to Surface and Thin Film Processes, John A. Venables, Cambridge University Press, Cambridge, 2000, 372 pp., \$110.00, ISBN 0-521-78500-6.

Latticed Mismatched Thin Films, Eugene A. Fitzgerald, ed., TMS Publishing, Warrendale, 2000, 212 pp., \$76.00, ISBN 0-87339-444-5.

Lectures on the Theory of Phase Transformations, 2d ed., H.I. Aaronson, ed., TMS Publication, Warrendale, 2000, 308 pp., \$84.00, ISBN 0-87339-476-3.

Liquid Crystals, Satyendra Kumar, Cambridge University Press, New York, 2000, 512 pp., \$110.00, ISBN 0-521-46132-4.

Low Dimensional Semiconductor Structures, Fundamentals and Device Applications, Keith Barnham and Dimitri Vvedensky, eds.,

Cambridge University Press, New York, 2000, 410 pp., \$59.95, ISBN 0-521-59103-1.

Magnetic Reconnection in Plasmas, Dieter Biskamp, Cambridge University Press, New York, 2000, 408 pp., \$110.00, ISBN 0-521-58288-1.

Materials Modification by Electronic Excitation, Noriaki Itoh and Marshall Stoneham, Cambridge University Press, Cambridge, 2000, 520 pp., \$150.00, ISBN 0-521-55498-5.

Mathematical Physics of Quantum Wires and Devices, from Special Resonances to Anderson Localization, Norman Hurt, Kluwer Academic Publishers, Dordrecht, 2000, 320 pp., \$127.00, ISBN 0-7923-6288-8.

Mechatronic Systems, Techniques and Applications; Vol. 4, Electromechanical Systems, Cornelius T. Leondes, Gordon & Breach Science Publishers, Amsterdam, 2000, 343 pp., \$139.00, ISBN 90-5699-670-3.

Microhardness of Polymers, Baltá Calleja and S. Fakirov, Cambridge University Press, Cambridge, 237 pp., \$95.00, ISBN 0-521-64218-3.

Molecular Magnetism, New Magnetic Materials, Koichi Itoh and Minoru Kinoshita, Gordon & Breach Science Publishers, Amsterdam, 2000, 347 pp., \$120.00, ISBN 90-5699-307-0.

Nonlinear Random Vibration, Analytical Techniques and Applications (Advances in Engineering 3), W.S. Cho To, A.A. Balkema, Brookfield, 2000, 252 pp., \$87.00, ISBN 90-265-16371.

Nuclear Reactor Physics, Weston M. Stacey, John Wiley & Sons, New York, 2001, 707 pp., \$125.00, ISBN 0-471-39127-1.

Optical Fiber Sensor Technology, K.T.V. Grattan and B.T. Meggitt, Kluwer Academic Publishers, Boston, 2000, 352 pp., \$148.00, ISBN 0-7923-7852-0.

Optical Fiber Sensor Technology: Advanced Applications—Bragg Gratings and Distributed Sensors, K.T.V. Grattan and B.T. Meggitt, Kluwer Academic Publishers, Boston, 2000, 400 pp., \$145.00, ISBN 0-7923-7946-2.

Optics of Liquid Crystal Displays, Pochi Yeh and Claire Gu, John Wiley & Sons, New York, 1999, 438 pp., \$79.95, ISBN 0-471-18201-x.

Orbitals in Chemistry, A Modern Guide for Students, Victor Gil, Cambridge University Press, New York, 2000, 328 pp., \$90.00, ISBN 0-521-66167-6.

Particle Characterization: Light Scattering Methods, Renliang Xu, Kluwer Academic Publishers, Dordrecht, 2000, 432 pp., \$172.00, ISBN 0-7923-6300-0.

Perovskite Oxides for Electronic, Energy Conversion, and Energy Efficient

Applications, W. Wong-Ng, T. Holesinger, G. Riley, and R. Guo, The American Ceramic Society, Westerville, 2000, 284 pp., \$95.00, ISBN 1-57498-091-2.

Physical Polymer Science, L.H. Sperling, John Wiley & Sons, New York, 2001, 671 pp., \$80.05, ISBN 0-471-32921-5.

Physical Vapor Deposition of Thin Films, John E. Mahan, John Wiley & Sons, New York, 2000, 312 pp., \$84.95, ISBN 0-471-33001-9.

Physics Meets Mineralogy, Condensed-Matter Physics in Geosciences, Hideo Aoki, Yasuhiko Syono, and Russell J. Hemley, eds., Cambridge University Press, Cambridge, 2000, 397 pp., \$100.00, ISBN 0-521-64342-2.

The Physics of Fullerene-Based and Fullerene-Related Materials, Wanda Andreoni, ed., Kluwer Academic Publishers, Dordrecht, 2000, 464 pp., \$199.00, ISBN 0-7923-6234-9.

Physics of Quantum Well Devices, B.R. Nag, Kluwer Academic Publishers, Dordrecht, 2000, 308 pp., \$147.00, ISBN 0-7923-6576-3.

Polymer-Clay Nanocomposites, T.J. Pinnavaia and G. Beall, John Wiley & Sons, New York, 2001, 344 pp., \$235.00, ISBN 0-471-63700-9.

Polymers from the Inside Out, Alan E. Tonelli, John Wiley & Sons, New York, 2001, 249 pp., \$69.95, ISBN 0-471-38138-1.

Preparative Methods of Polymer Chemistry, Wayne Sorenson, Fred Sweeny, and Tod Campbell, John Wiley & Sons,

New York, 2001, 584 pp., \$74.95, ISBN 0-471-58992-6.

Principles of Condensed Matter Physics, P.M. Chaikin and T.C. Lubensky, Cambridge University Press, Cambridge, 2000, 699 pp., \$69.95, ISBN 0-521-79450-1.

Properties of Advanced Semiconductor Materials GaN, AlN, InN, BN, SiC, SiGe, Michael E. Levinstein, Sergey L. Rumyantsev, and Michael S. Shur, John Wiley & Sons, New York, 2001, 194 pp., \$74.95, ISBN 0-471-35827-4.

Properties of Silicon, Germanium, and SiGe: Carbon, Erich Kasper and Klara Lyutovich, eds., The Institution of Electrical Engineers, Edison, 2000, 358 pp., \$195.00, ISBN 0-85296-783-7.

Quantum Mechanics: An Introduction for Device Physicists and Electrical Engineers, David K. Ferry, Institute of Physics Publishing, Bristol, 2001, 345 pp., \$33.00, ISBN 0-7503-0725-0.

Scalar Diffraction from a Circular Aperture, Charles J. Daly, Kluwer Academic Publishers, Boston, 2000, 192 pp., \$125.00, ISBN 0-7923-7810-5.

Science and Application of Nanotubes, D. Tomanek and R.J. Enbody, Kluwer Academic Publishers, Dordrecht, 2000, 406 pp., \$150.00, ISBN 0-306-46372-5.

The Science of Paintings, W. Stanley Taft and James W. Mayer, Springer-Verlag, New York, 2000, 236 pp., \$59.95, ISBN 0-387-98722-3.

Smart Structures, Analysis and Design, A.V. Srinivasan and D. Michael McFarland, Cambridge University Press, Cambridge University Press, Cambridge, 2000, 228 pp., \$95.00, ISBN 0-521-65977-9.

Statistical Thermodynamics and Properties of Matter, Lucienne Couture and Robert Zitoun, Gordon & Breach Science Publishers, Amsterdam, 2000, 604 pp., \$55.00, ISBN 90-5699-196-5

Structure in Science and Art, Wendy Pullan and Harshad Bhadeshia, Cambridge University Press, Cambridge, 2000, 203 pp., \$34.95, ISBN 0-521-78258-9.

Techniques of Tomographic Isodyne Stress Analysis, Jerzy Tadeusz Pindera, Kluwer Academic Publishers, Dordrecht, 2000, 312 pp., \$134.00, ISBN 0-7923-6388-4.

Texture and Anisotropy, Preferred Orientations in Polycrystals and their Effect on Materials Properties, U.F. Kocks, C.N. Tomé, and H.-R. Wenk, Cambridge University Press, New York, 2000, 676 pp., \$105.00, ISBN 0-521-79420-x.

Thin-Film Optical Filters, Angus Macleod, Institute of Physics Publishing, Bristol, 2001, 641 pp., \$70.00, ISBN 0-7503-0688-2.

Turbulent Flows, Stephen Bailey Pope, Cambridge University Press, New York, 2000, 748 pp., \$130.00, ISBN 0-521-59125-2.

Vibrations, Dynamics and Structural Systems, Madhujit Mukhopadhyay, A.A. Balkema, Brookfield, 2000, 602 pp., \$95.00, ISBN 90-5410-728-6.

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