

The following recently published books, relevant to materials research, have come to *MRS Bulletin's* attention. Some of the books listed here may be reviewed in future issues of *MRS Bulletin*. To review a book from the list or to offer recommendations of additional books, contact Editorial Assistant, *MRS Bulletin*, 506 Keystone Drive, Warrendale, PA 15086-7573, USA; e-mail bulletin@mrs.org.

Books

Advanced Batteries—Materials Science

Aspects, Robert A. Huggins, Springer, 2009, 474 pp., \$129.00, ISBN: 978-0-387-76423-8.

Advances in Ceramic Armor IV: Ceramic Engineering and Science Proceedings, Volume 29, Issue 6, Lisa Prokurat Franks, Editor, Wiley, 2008, 242 pp., \$75.00, ISBN: 978-0-470-34497-2.

Applications of Texture Analysis: Ceramic Transactions, Volume 201, A.D. Rollett, Editor, Wiley, 2008, 836 pp., \$125.00, ISBN: 978-0-470-40835-3.

Applied Adhesive Bonding: A Practical Guide for Flawless Results, Gerd Habenicht, Wiley, 2009, 186 pp., \$85.00, ISBN: 978-3-527-32014-1.

Atomistic Modeling of Materials Failure, Markus J. Buehler, Springer, 2008, 488 pp., \$129.00, ISBN: 978-0-387-76425-2.

Biomimetic Robotics, Ranjan Vepa, Cambridge University Press, 2009, 360 pp., \$99.00, ISBN: 978-0-521-89594-1.

Boulevard of Broken Symmetries: Effective Field Theories of Condensed Matter, Adriaan M.J. Schakel, World Scientific, 2008, 412 pp., \$79.00, ISBN: 978-981-281-390-9.

Chains of Opportunity: The University of Akron and the Emergence of the Polymer Age, 1909–2007, Mark D. Bowles, University of Akron Press, 2008, 357 pp., \$45.95, ISBN: 978-1-931968-53-9.

Collagen: Structure and Mechanics, Peter Fratzl, Springer, 2008, 506 pp., \$149.00, ISBN: 978-0-387-73905-2.

Crystallography of Modular Materials, Giovanni Ferraris, Emil Makovicky, and Stefano Merlino, Oxford University Press, 2008, 416 pp., \$70.00, ISBN: 978-0-19-954569-8.

Dictionary of Nanotechnology, Colloid and Interface Science, Laurier L. Schramm, Wiley, 2008, 308 pp., \$145.00, ISBN: 978-3-527-32203-9.

Diffuse Scattering and Defect Structure Simulations—A Cook Book Using the Program DISCUS, Reinhard B. Neder and Thomas Proffen, Oxford University Press, 2008, 240 pp., \$90.00, ISBN: 978-0-19-923369-4.

Electrical Transport in Nanoscale Systems, Massimiliano Di Ventra, Cambridge University Press, 2008, 496 pp., \$80.00, ISBN: 978-0-521-89634-4.

Electronic Device Architectures for the Nano-CMOS Era: From Ultimate CMOS Scaling to Beyond CMOS Devices, Simon Deleonibus, Editor, World Scientific, 2008, 440 pp., \$167.00, ISBN: 978-981-4241-28-1.

Electronic Structure—Basic Theory and Practical Methods, Richard M. Martin, Cambridge University Press, 2008, 648 pp., \$75.00, ISBN: 978-0-521-53440-6.

Energy Harvesting Technologies, Shashank Priya and Daniel J. Inman, Springer, 2009, 517 pp., \$129.00, ISBN: 978-0-387-76463-4.

Handbook of Mathematical Relations in Particulate Materials Processing, Randall M. German and Seong Jin Park, Wiley, 2008, 460 pp., \$120.00, ISBN: 978-0-470-17364-0.

Heat Transfer, Gregory Nellis and Sanford Klein, Cambridge University Press, 2008, 1152 pp., \$155.00, ISBN: 978-0-521-88107-4.

Heat Transfer Physics, Massoud Kaviani, Cambridge University Press, 2008, 688 pp., \$125.00, ISBN: 978-0-521-89897-3.

Highlights in Colloid Science, Dimo Platikanov and Dotchi Exerowa, Editors, Wiley, 2008, 328 pp., \$190.00, ISBN: 978-3-527-32037-0.

Introduction to Magnetic Materials, 2nd Edition, B.D. Cullity and C.D. Graham, Wiley, 2008, 544 pp., \$110.00, ISBN: 978-0-471-47741-9.

Introduction to Materials Chemistry, Harry R. Allcock, Wiley, 2008, 432 pp., \$99.95, ISBN: 978-0-470-29333-1.

Materials Characterization Techniques, Sam Zhang, Lin Li, and Ashok Kumar, Taylor & Francis/CRC, 2008, 344 pp., \$99.95, ISBN: 9781420042948.

Materials for Engineers, William F. Hosford, Cambridge University Press, 2008, 296 pp., \$85.00, ISBN: 978-0-521-89997-0.

Materials Processing and Texture: Ceramic Transactions, Volume 200, A.D. Rollett, Editor, Wiley, 2008, 848 pp., \$125.00, ISBN: 978-0-470-40834-6.

Mechanical Behavior of Materials, 2nd Edition, Marc Meyers and Krishan Chawla, Cambridge University Press, 2008, 880 pp., \$90.00, ISBN: 978-0-521-86675-0.

Partial Differential Equations in Fluid Dynamics, Isom H. Herron and Michael R. Foster, Cambridge University Press, 2008, 296 pp., \$90.00, ISBN: 978-0-521-88824-0.

Periodic Materials and Interference Lithography for Photonics, Photonics and Mechanics, Martin Maldovan and Edwin L. Thomas, Wiley, 2008, 331 pp., \$175.00, ISBN: 978-3-527-31999-2.

Phase Change Materials: Science and Applications, Simone Raoux and Matthias Wuttig, Editors, Springer, 2009, 430 pp., \$129.00, ISBN: 978-0-387-84873-0.

Phase Transformations in Multicomponent Melts, Dieter M. Herlach, Editor, Wiley, 2008, 435 pp., \$245.00, ISBN: 978-3-527-31994-7.

Polymer Melt Processing—Foundations in Fluid Mechanics and Heat Transfer, Morton M. Denn, Cambridge University Press, 2008, 264 pp., \$99.00, ISBN: 978-0-521-89969-7.

Quantum Chemistry—A Unified Approach, David B. Cook, Imperial College Press, 2008, 276 pp., \$58.00, ISBN: 978-1-84816-265-5.

Radiation Oncology: A Physicist's-Eye View, Michael Goitein, Springer, 2008, 330 pp., \$129.00, ISBN: 978-0-387-72644-1.

Radiation Protection and Dosimetry—An Introduction to Health Physics, Michael G. Stabin, Springer, 2008, 384 pp., \$89.95, ISBN: 978-0-387-49982-6.

Soft Matter: Volume 4: Lipid Bilayers and Red Blood Cells, Gerhard Gompper and Michael Schick, Editors, Wiley, 2008, 265 pp., \$190.00, ISBN: 978-3-527-31502-4.

Stabilization, Optimal and Robust Control—Theory and Applications in Biological and Physical Sciences, Aziz Belmiloudi, Springer, 2008, 502 pp., \$199.00, ISBN: 978-1-84800-343-9.

Step-Growth Polymerization Process Modeling and Product Design, Kevin C. Seavey and Y.A. Liu, Wiley, 2008, 712 pp., \$145.00, ISBN: 978-0-470-23823-3.

Strained Metallic Surfaces: Theory, Nanostructuring and Fatigue Strength, Valim Levitin and Stephan Loskutov, Wiley, 2009, 258 pp., \$145.00, ISBN: 978-3-527-32344-9.

Synchrotron Radiation—Production and Properties, Philip John Duke, Oxford University Press, 2009, 272 pp., \$60.00, ISBN: 978-0-19-955909-1.

The Advanced Materials Revolution: Technology and Economic Growth in the Age of Globalization, Sanford L. Moskowitz, Wiley, 2009, 255 pp., \$74.95, ISBN: 978-0-471-61526-2.

The Material World, 2nd Edition, Rodney Cotterill, Cambridge University Press, 2008, 576 pp., \$50.00, ISBN: 978-0-521-45147-5.

The Physics of NASCAR: How to Make Steel + Gas + Rubber = Speed, Diandra Leslie-Pelecky, Dutton, 2008, 304 pp., \$25.95, ISBN: 978-0525950530.

Unconventional Nanopatterning Techniques and Applications, John A. Rogers and Hong H. Lee, Editors, Wiley, 2008, 598 pp., \$125.00, ISBN: 978-0-470-09957-5.

W.T. Koiter's Elastic Stability of Solids and Structures, Arnold M.A. van der Heijden, Cambridge University Press, 2008, 240 pp., \$85.00, ISBN: 978-0-521-51528-3.

What is What in the Nanoworld: A Handbook on Nanoscience and Nanotechnology, 2nd, Revised and Enlarged Edition, Victor E. Borisenko and Stefano Ossicini, Wiley, 2008, 538 pp., \$200.00, ISBN: 978-3-527-40783-5. □