

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](mailto:bulletin@mrs.org).

## Books

**A Guide to Monte Carlo Simulations in Statistical Physics**, *Third Edition*, David P. Landau and Kurt Binder, Cambridge University Press, 2009, 488 pp., \$75.00, ISBN: 978-0-521-76848-1.

**Applied Metal Forming—Including FEM Analysis**, Henry S. Valberg, Cambridge University Press, 2010, 460 pp., \$99.00, ISBN: 978-0-521-51823-9.

**Binaphthyl-Based Chiral Materials—Our Journal**, Lin Pu, Imperial College Press, 2009, 368 pp., \$98.00, ISBN: 978-1-84816-411-6.

**Building Scientific Apparatus**, *Fourth Edition*, John H. Moore, Christopher C. Davis, and Michael A. Coplan, Cambridge University Press, 2009, 662 pp., \$80.00, ISBN: 978-0-521-87858-6.

**Cellular Mechanotransduction—Diverse Perspectives from Molecules to Tissues**, Mohammad R.K. Mofrad and Roger D. Kamm, Cambridge University Press, 2009, 478 pp., \$135.00, ISBN: 978-0-521-89523-1.

**Chemorheology of Polymers—From Fundamental Principles to Reactive Processing**, Peter J. Halley and Graeme A. George, Cambridge University Press, 2009, 454 pp., \$150.00, ISBN: 978-0-521-80719-7.

**Concepts in Thermal Physics**, *Second Edition*, Stephen J. Blundell and Katherine M. Blundell, Oxford University Press, 2009, 516 pp., \$55.00, ISBN: 978-0-19-956210-7.

**Controlled/Living Radical Polymerization: Progress in ATRP**, Krzysztof Matyjaszewski, Editor, ACS Publications, 2009, 424 pp., \$175.00, ISBN: 978-0-8412-6995-8.

**Controlled/Living Radical Polymerization: Progress in RAFT, DT, NMP & OMRP**, Krzysztof Matyjaszewski, Editor, ACS Publications, 2009, 404 pp., \$175.00, ISBN: 978-0-8412-6996-5.

**Diffuse X-Ray Scattering and Models of Disorder**, T.R. Welberry, Oxford University Press, 2010, 280 pp., \$65.00, ISBN: 978-0-19-958381-2.

**Dynamics of Rotating Machines**, Michael I. Friswell, John E.T. Penny, Seamus D. Garvey, and Arthur W. Lees, Cambridge University Press, 2010, 544 pp., \$115.00, ISBN: 978-0-521-85016-2.

**Electrical Properties of Materials**, *Eighth Edition*, L. Solymar and D. Walsh, Oxford University Press, 2009, 464 pp., \$55.00, ISBN: 978-0-19-956591-7.

**Electrokinetically-Driven Microfluidics and Nanofluidics**, Hsueh-Chia Chang and Leslie Y. Yeo, Cambridge University Press, 2009, 526 pp., \$125.00, ISBN: 978-0-521-86025-3.

**Fundamentals of Fluid Power Control**, John Watton, Cambridge University Press, 2009, 508 pp., \$140.00, ISBN: 978-0-521-76250-2.

**Gasoline, Diesel and Ethanol Biofuels from Grasses and Plants**, Ram B. Gupta and Ayhan Demirbas, Cambridge University Press, 2010, 234 pp., \$75.00, ISBN: 978-0-521-76399-8.

**Guided Explorations of the Mechanics of Solids and Structures**, James F. Doyle, Cambridge University Press, 2009, 460 pp., \$125.00, ISBN: 978-0-521-89678-8.

**Fracture Mechanics—Integration of Mechanics, Materials Science and Chemistry**, Robert P. Wei, Cambridge University Press, 2010, 230 pp., \$85.00, ISBN: 978-0-521-19489-1.

**High Density Data Storage—Principle, Technology, and Materials**, Yanlin Song and Daoben Zhu, Editors, World Scientific, 2009, 272 pp., \$75.00, ISBN: 978-981-283-469-0.

**Introduction to XAFS—A Practical Guide to X-Ray Absorption Fine Structure Spectroscopy**, Grant Bunker, Cambridge University Press, 2010, 268 pp., \$70.00, ISBN: 978-0-521-76775-0.

**Materials and the Environment—Eco-Informed Material Choice**, Michael F. Ashby, Butterworth-Heinemann, 2009, 400 pp., \$69.95, ISBN: 978-1-85617-608-8.

**Mechanical Behavior of Materials**, *Second Edition*, William F. Hosford, Cambridge University Press, 2009, 436 pp., \$95.00, ISBN: 978-0-521-19569-0.

**Nanoscience and Nanotechnology for Chemical and Biological Defense**, Ramanathan Nagarajan, Walter Zukas, T. Alan Hatton, and Stephen Lee, Editors, ACS Publications, 2010, 370 pp., \$175.00, ISBN: 978-0-8412-6981-1.

**Non-Linear Modeling and Analysis of Solids and Structures**, Steen Krenk, Cambridge University Press, 2009, 360 pp., \$80.00, ISBN: 978-0-521-83054-6.

**Optical Properties and Spectroscopy of Nanomaterials**, Jin Zhong Zhang, World Scientific, 2009, 400 pp., \$64.00, ISBN: 978-981-283-665-6.

**Optimal Device Design**, A.F.J. Levi and Stephan Haas, Editors, Cambridge University Press, 2010, 294 pp., \$110.00, ISBN: 978-0-521-11660-2.

**Pattern Formation and Dynamics in Nonequilibrium Systems**, Michael Cross and Henry Greenside, Cambridge University Press, 2009, 552 pp., \$90.00, ISBN: 978-0-521-77050-7.

**Polymer Data Handbook**, *Second Edition*, James E. Mark, Editor, Oxford University Press, 2009, 1264 pp., \$195.00, ISBN: 978-0-19-518101-2.

**Proceedings of the Workshop Synchrotron Radiation and Nanostructures—Papers in Honour of Paolo Perfetti**, Antonio Cricenti and Giorgio Margaritondo, World Scientific, 2009, 236 pp., \$75.00, ISBN: 978-981-4280-83-9.

**Quantitative Mineral Resource Assessments—An Integrated Approach**, Donald A. Singer and W. David Menzie, Oxford University Press, 2010, 232 pp., \$74.00, ISBN: 978-0-19-539959-2.

**Selected Papers on the Periodic Table**, Eric Scerri, Imperial College Press, 2009, 156 pp., \$88.00, ISBN: 978-1-84816-425-3.

**Selected Topics in Nanoscience and Nanotechnology**, Andrew T.S. Wee, Editor, World Scientific, 2009, 268 pp., \$78.00, ISBN: 978-981-283-955-8.

**Solid Mechanics**, William F. Hosford, Cambridge University Press, 2010, 272 pp., \$99.00, ISBN: 978-0-521-19229-3.

**Structured Fluids—Polymers, Colloids, Surfactants**, Thomas A. Witten and Philip A. Pincus, Oxford University Press, 2010, 232 pp., \$45.00, ISBN: 978-0-19-958382-9.

**The Chemistry of Inkjet Inks**, Shlomo Magdassi, World Scientific, 2009, 356 pp., \$95.00, ISBN: 978-981-281-821-8.

**The Mechanics and Thermodynamics of Continua**, Morton E. Gurtin, Eliot Fried, and Lallit Anand, Cambridge University Press, 2010, 565 pp., \$125.00, ISBN: 978-0-521-40598-0.

**The Nature of the Hydrogen Bond—Outline of a Comprehensive Hydrogen Bond Theory**, Gastone Gilli and Paola Gilli, Oxford University Press, 2009, 304 pp., \$130.00, ISBN: 978-0-19-955896-4.

**Theory of Nonequilibrium Superconductivity**, Nikolai Kopnin, Oxford University Press, 2009, 344 pp., \$65.00, ISBN: 978-0-19-956642-6.

**Thermoelasticity with Finite Wave Speeds**, Józef Ignaczak and Martin Ostoya-Starzewski, Oxford University Press, 2009, 496 pp., \$130.00, ISBN: 978-0-19-954164-5.

**Transport in Laser Microfabrication—Fundamentals and Applications**, Costas P. Grigoropoulos, Cambridge University Press, 2009, 412 pp., \$108.00, ISBN: 978-0-521-82172-8.

**Transport in Nanostructures**, *Second Edition*, David K. Ferry, Stephen M. Goodnick, and Jonathan Bird, Cambridge University Press, 2009, 670 pp., \$99.00, ISBN: 978-0-521-87748-0.

**Two-Dimensional X-ray Diffraction**, Bob B. He, Wiley, 2009, 426 pp., \$125.00, ISBN: 978-0-470-22722-0.

**Understanding Chemistry**, C.N.R. Rao, World Scientific, 2009, 312 pp., \$38.00, ISBN: 978-981-283-603-8. □