

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

### Applications of Materials

**Carbon: The Future Material for Advanced Technology Applications (Springer Series: Topics in Applied Physics, Vol. 100)**, Giacomo Messina and Saveria Santangelo, Editors, Springer, 2006, 545 pp., \$219.00, ISBN 3-540-29531-3.

**Functional Dyes**, Sung-Hoon Kim, Editor, Elsevier, 2006, 282 pp., \$185.00, ISBN 0-444-52176-3.

**Integral Mechanical Attachment**, Robert Messler, Elsevier, 2006, 432 pp., \$69.95, ISBN 0-7506-7965-4.

**Micro Process Engineering: Fundamentals, Devices, Fabrication, and Applications**, Norbert Kockmann, Oliver Brand, Gary K. Fedder, Christopher Hierold, Jan G. Korvink, and Osamu Tabata, Editors, Wiley, 2006, 529 pp., \$250.00, ISBN 3-527-31246-3.

**Progress in Nano-Electro-Optics V: Nanophotonic Fabrications, Devices, Systems, and Their Theoretical Bases (Springer Series in Optical Sciences, Vol. 117)**, Motoichi Ohtsu, Editor, Springer, 2006, 200 pp., \$119.00, ISBN 3-540-28665-9.

### Biomaterials

**Biological and Pharmaceutical Nanomaterials**, Challa S.S.R. Kumar, Editor, Wiley, 2006, 427 pp., \$195.00, ISBN 3-527-31382-6.

**Biosensing: International Research and Development**, J. Schultz, M. Mrksich, S.N. Bhatia, D.J. Brady, A.J. Ricco, D.R. Walt, and C.L. Wilkins, Editors, Springer, 2006, 387 pp., \$154.00, ISBN 1-4020-4057-1.

**Molecular Organic Materials: From Molecules to Crystalline Solids**, Jordi Fraxedas, Cambridge University Press, 335 pp., \$125.00, ISBN 0-521-83446-5.

### Electrochemistry

**Encyclopedia of Electrochemistry, Volume 7A, Inorganic Chemistry**, Allen J. Bard, Martin Stratmann, Fritz Scholz, and Christopher J. Pickett, Editors, Wiley, 2006, 573 pp., \$320.00, ISBN 3-527-30399-5.

**Fundamentals of Electrochemistry, 2nd Edition**, Vladimir S. Bagotsky, Editor, Wiley, 2005, 752 pp., \$120.00, ISBN 0-471-70058-4.

### Experimental Techniques

**Cell Imaging**, David Stephens, Editor, Scion Publishing Ltd., 2005, 304 pp., \$74.00, ISBN 1904842046.

**Pattern Formation: An Introduction to Methods**, Rebecca Hoyle, Cambridge University Press, 2006, 422 pp., \$80.00, ISBN 0-521-81750-1.

**Scanning Auger Electron Microscopy**, Martin Prutton and Mohamed El Gomati, Editors, Wiley, 2006, 384 pp., \$240.00, ISBN 0-470-86677-2.

**Scanning Probe Microscopy: Atomic Scale Engineering by Forces and Currents**, Adam Foster and Werner Hofer, Springer, 2006, 350 pp., \$149.00, ISBN 0-387-40090-7.

**X-Ray Metrology in Semiconductor Manufacturing**, D. Keith Bowen and Brian K. Tanner, Taylor & Francis/CRC Press, 2006, 296 pp., \$129.95, ISBN 0-8493-3928-6.

### History, Biography, and Unclassified

**Statistical Design—Chemometrics (Data Handling in Science and Technology, Vol. 25)**, Roy Bruns, Ieda Scarminio, and Benicio de Barros Neto, Elsevier, 2006, 422 pp., \$145.00, ISBN 0-444-52181-X.

### Inorganic Chemistry, Other Chemistry, and Ceramics

**The Chemistry and Technology of Magnesia**, Mark A. Shand, Wiley, 2006, 266 pp., \$89.95, ISBN 0-471-65603-8.

### Materials Processing

**Electrokinetic and Colloid Transport**, Jacob H. Masliyah and Subir Bhattacharjee, Wiley, 2006, 707 pp., \$125.00-471-78882-1.

**Materials Processing During Casting**, Hasse Fredriksson and Ulla Åkerlind, Wiley, 2006, 433 pp., \$85.00, ISBN 0-470-01514-4.

**Principles of Polymer Processing, 2nd Edition**, Zehev Tadmor and Costas G. Gogos, Wiley, 2006, 961 pp., \$125.00, ISBN 0-471-38770-3.

**Rheology: Concepts, Methods and Applications**, Alexander Ya. Malkin and Avraam I. Isayev, William Andrew Publishing, 2005, 474 pp., \$249.00, ISBN 1-895198-33-X.

**The Rheology Handbook**, Thomas Mezger, William Andrew Publishing, 2006, 252 pp., \$180.00, ISBN 0-8155-1529-4.

### Metallurgy

**Materials for Engineering, 3rd Edition**, John Martin, Woodhead Publishing Ltd., 2006, 252 pp., \$80.00, ISBN 1-84569-157-1.

**Theory of Plasticity, 3rd Edition**, Jagabandhu Chakrabarty, Elsevier, 2006, 896 pp., \$79.95, ISBN 0-7506-6638-2.

### Physics and Electronics

**Light Scattering by Optically Soft Particles: Theory and Applications**, Subodh K. Sharma and David J. Sommerford, Springer, 2006, 195 pp., \$129.00, ISBN 3-540-23910-3.

**Metamaterials: Physics and Engineering Explorations**, Nader Engheta and Richard W. Ziolkowski, Editors, Wiley, 2006, 414 pp., \$125.00, ISBN 0-471-76102-8.

**Mid-Infrared Semiconductor Optoelectronics (Springer Series in Optical Sciences, Vol. 118)**, Anthony Krier, Editor, Springer, 2006, 751 pp., \$159.00, ISBN 1-84628-208-X.

**The Physics of Semiconductors: An Introduction Including Devices and Nanophysics**, Marius Grundmann, Springer, 2006, 720 pp., \$89.95, ISBN 3-540-25370-X.

**Thermal Processes Using Attosecond Laser Pulses: When Time Matters (Springer Series in Optical Sciences, Vol. 121)**, Mirosław Kozłowski and Janina Marciak-Kozłowska, Springer, 2006, 244 pp., \$139.00, ISBN 0-387-30159-3.

### Polymer Chemistry

**Handbook of Paper and Board**, Herbert Holik, Editor, Wiley, 2006, 528 pp., \$195.00, ISBN 3-527-30997-7.

**Polymer Reference Book**, T.R. Crompton, Rapra Technology, 2006, 704 pp., \$305.00, ISBN 1-85957-509-9.

### Structure of Materials

**Information Theory of Molecular Systems**, Roman F. Nalewajski, Elsevier, 2006, 262 pp., \$127.00, ISBN 0-444-51966-1.

**Self-Organized Nanoscale Materials**, Motonari Adachi and David J. Lockwood, Editors, Springer, 2006, 320 pp., \$89.95, ISBN 0-387-27975-X.

**Structure and Chemistry of Crystalline Solids**, Bodie Douglas and Shi-Ming Ho, Springer, 2006, 365 pp., \$129.00, ISBN 0-387-26147-8. □

