

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

**Growth Market Nanotechnology: An Analysis of Technology and Innovation**, Norbert Malanowski, Wolfgang Luther, Thomas Heimer, and Matthias Werner, Editors, Wiley, 2006, 294 pp., \$125.00, ISBN 3-527-31457-7.

**Propellants and Explosives: Thermochemical Aspects of Combustion, Second Edition, Completely Revised and Extended Edition**, Naminosuke Kubota, Wiley, 2007, 530 pp., \$175.00, ISBN 3-527-31424-5.

**Smart Material Systems and MEMS: Design and Development Methodologies**, Vijay Varadan, K.J. Vinoy, and S. Gopalakrishnan, Wiley, 2006, 418 pp., \$135.00, ISBN 0-470-09361-0.

**Thin Film Solar Cells—Fabrication, Characterization and Applications**, Jef Poortmans and Vladimir Arkhipov, Editors, Wiley, 2006, 502 pp., \$235.00, ISBN 0-470-09126-6.

### Biomaterials

**Nanodevices for the Life Sciences**, Challa S.S.R. Kumar, Editor, Wiley, 2006, 489 pp., \$175.00, ISBN 3-527-31384-6.

**Tissue, Cell, and Organ Engineering**, Challa S.S.R. Kumar, Editor, Wiley, 2007, 540 pp., \$175.00, ISBN 3-527-31389-1.

### Experimental Techniques

**Force Microscopy: Applications in Biology and Medicine**, Bhanu P. Jena and Johann Karl H. Hörber, Editors, Wiley, 2006, 300 pp., \$125.00, ISBN 0-471-39628-4.

**Pulsed Laser Deposition of Thin Films: Applications-Led Growth of Functional Materials**, Robert Eason, Wiley, 2006, 682 pp., \$175.00, ISBN 0-471-44709-2.

**Scanning Probe Microscopies Beyond Imaging: Manipulation of Molecules and Nanostructures**, Paolo Samori, Editor, Wiley, 2006, 570 pp., \$190.00, ISBN 3-527-31269-6.

**Scanning Probe Microscopy—Electrical and Electromechanical Phenomena at the Nanoscale**, Sergei Kalinin and Alexei Gruverman, Springer, 2007, 980 pp., \$349.00, ISBN 0-387-28667-5.

### Metallurgy

**Copper in the Automotive Industry**, Hansjörg Lipowsky and Emin Arpacı, Wiley, 2007, 191 pp., \$75.00, ISBN 3-527-31769-4.

**Thermal Spraying for Power Generation Components**, Klaus Erich Schneider, Vladimir Belashchenko, Marian Dratwinski, Stephan Siegmann, and Alexander Zagorski, Wiley, 2007, 285 pp., \$125.00, ISBN 3-527-31337-0.

**Virtual Fabrication of Aluminum Products: Microstructural Modeling in Industrial Aluminum Production**, Jürgen Hirsch, Editor, Wiley, 2007, 405 pp., \$150.00, ISBN 3-527-31363-X.

## Physics & Electronics

**Basic Electromagnetism and Materials**, André Moliton, Springer, 2007, 430 pp., \$79.95, ISBN 0-387-30284-3.

**Colloid Stability: The Role of Surface Forces, Part 1, Volume 1**, Tharwat F. Tadros, Editor, Wiley, 2007, 448 pp., \$175.00, ISBN 3-527-31462-8.

**Metal Based Thin Films for Electronics, Second, Revised and Enlarged Edition**, Klaus Wetzig and Claus M. Schneider, Editors, Wiley, 2006, 424 pp., \$165.00, ISBN 3-527-40650-6.

**Solid-State Physics—Introduction to the Theory**, James D. Patterson and Bernard C. Bailey, Springer, 2007, 717 pp., \$99.00, ISBN 3-540-24115-9.

## Polymer Chemistry

**Activation of Small Molecules: Organometallic and Bioinorganic Perspectives**, William B. Tolman, Editor, Wiley, 2007, 382 pp., \$175.00, ISBN 3-527-31312-5.

**Block Copolymers in Nanoscience**, Massimo Lazzari, Guojun Liu, and Sébastien Lecommandoux, Editors, Wiley, 2007, 447 pp., \$165.00, ISBN 3-527-31309-9.

**Frontiers in Transition Metal-Containing Polymers**, Alaa S. Abd-El-Aziz and Ian Manners, Wiley, 2007, 533 pp., \$135.00, ISBN 0-471-73015-7.

**Organic Coatings—Science and Technology, Third Edition**, Zeno Wicks Jr., Frank N. Jones, S. Peter Pappas, and Douglas A. Wicks, Wiley, 2007, 722 pp., \$150.00, ISBN 0-471-69806-7.

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