

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

### 3D Integration: Technology and Applications

Philip Garrou and Christopher Bower, and Peter Ramm, Editors, Wiley, 2008, 798 pp., \$255.00, ISBN: 978-3-527-32034-9.

### Advanced Tomographic Methods in Materials Research and Engineering

Jon Banhard, Editor, Oxford University Press, 2008, 448 pp., \$150.00, 978-0-19-921324-5.

### Biomedical Nonlinear Optical Microscopy

Barry R. Masters and Peter T. C. So, Editors, Oxford University Press, 2008, 860 pp., \$150.00 ISBN: 978-019-516260-8.

### Ceramics Matrix Composites: Fiber Reinforced Ceramics and Their Applications

Walter Krenkel, Editor, Wiley, 2008, 440 pp., \$200.00, ISBN: 978-3-527-31361-7.

### Characterization and Analysis of Polymers

Wiley, 2008, 997 pp., \$295.00, ISBN: 978-0-470-23300-9.

### Chemical Thermodynamics: Basic Concepts and Methods

*Seventh Edition*, Irvring M. Klotz and Robert M. Rosenberg, Wiley, 2008, 563 pp., \$125.00, ISBN: 978-0-471-78015-1.

### Computational Physics of Carbon

*Nanotubes*, Raffi H. Tabar, Cambridge University Press, 2007, 493 pp., \$140.00, ISBN: 978-0-521-85300-2.

### Concise Encyclopedia of the Properties of Materials Surfaces and Interfaces

J.W. Martin, Editor, Elsevier, 2008, 640 pp., \$290.00, ISBN: 978-0-08-054811-1.

### Corrosion and Corrosion Control: An Introduction to Corrosion Science and Engineering

*Fourth Edition*, R. Winston Revie and Herbert H. Uhlig, Wiley, 2008, 490 pp., \$99.95, ISBN: 978-0-471-73279-2.

### Electrochromism and Electrochromic Devices

Paul Monk, Roger Mortimer, and David Rosseinsky, Cambridge University Press, 2007, 483 pp., \$160.00, ISBN: 978-0-521-82269-5.

### Electrodynamics of Metamaterials

Andrey K. Sarychev and Vladimir M. Shalav, World Scientific, 2007, 260 pp., \$50.00, ISBN: 978-981-02-4245-9.

### Focused Ion Beam Systems

Nan Yao, Editor, Cambridge University Press, 2007, 395 pp., \$145.00, ISBN: 978-0-521-83199-4.

### Gaither's Dictionary of Scientific Quotations

Carl C. Gaither and Alma E. Cavazos-Gaither, Editors, Springer, 2008, 1793 pp., \$199.00, ISBN: 978-0-387-49575-0.

### Handbook of RAFT Polymerization

Christopher Barner-Kowollik, Editor, Wiley, 2008, 556 pp., \$254.00, ISBN: 978-3-527-31924-4.

### Hyphenated Techniques in Grape and Wine Chemistry

Riccardo Flamini, Editor, Wiley, 2008, 368 pp., \$160.00, ISBN: 978-0-470-06187-9.

### Inorganic Materials Synthesis and Fabrication

John N. Lalena, David A. Cleary, Everett E. Carpenter, and Nancy F. Dean, Wiley, 2008, 303 pp., \$99.95, ISBN: 978-0-471-74004-9.

### Instabilities and Self-Organization in Materials

Nasr Ghoniem and Daniel Walgraef, Oxford University Press, 2008, 1040 pp., \$225.00, ISBN: 978-0-19-929869-3.

### An Introduction to Continuum Mechanics

J.N. Reddy, Cambridge University Press, 2007, 354 pp., \$90.00, ISBN: 978-0-521-87044-3.

### Introduction to Elementary Particles

Second Edition, David Griffiths, Wiley, 2008, 450 pp., \$105.00, ISBN: 978-3-527-40601-2.

### An Introduction to Nanoscience and Nanotechnology

Alain Nouailhat, Wiley, 2008, 256 pp., \$95.00, ISBN: 978-1-84821-007-3.

### Mass Spectrometry of Silanes and Siloxanes: Spectra and Analysis

Michael Weiser, Wiley, 2008, 200 pp., ISBN: 978-3-527-32041-7.

### Materials with Rheological Properties—Calculation of Structures

Constantin Cristescu, Wiley, 2008, 288 pp., \$145.00, ISBN: 978-1-84821-012-7.

### Mesocrystals and Nonclassical Crystallization

Helmut Coelfen and Markus Antonietti, Wiley, 2008, 288 pp., \$190.00, ISBN: 978-0-470-02981-7.

### Metal Forming: Mechanics and Metallurgy

*Third Edition*, William F. Hosford and Robert M. Caddell, Cambridge University Press, 2007, 312 pp., \$85.00 ISBN: 978-0-521-88121-0.

### Modern Many-Particle Physics: Atomic Gases, Nanostructures and Quantum Liquids

*Second Edition*, Enrico Lipparini, World Scientific, 2008, 582 pp., \$72.00, ISBN: 978-981-270-932-0.

### Molecular Models for Fluids

Klaus Lucas, Cambridge University Press, 2007, 388 pp., \$99.00 ISBN: 978-0521-85240-1.

### Multivalued Fields in Condensed Matter, Electromagnetism, and Gravitation

Hagen Kleinert, World Scientific, 2008, 497 pp., \$37.00, ISBN: 978-981-279-171-9.

### Nanomaterials: An Introduction to Synthesis, Properties and Applications

Dieter Vollath, Wiley, 2008, 362 pp., \$115.00, ISBN: 978-3-527-31531-4.

### Nanotechnology, Wiley, 2008: Principles and Fundamentals

*Volume 1*, Gunter Schmid, Editor, 310 pp., \$215.00, ISBN: 978-03-527-31732-5; *Environmental Aspects, Volume 2*, Harald Krug, 317 pp., \$215.00, ISBN: 978-3-527-31735-6; *Information Technology I, Volume 3*, Rainer Waser, 563 pp., \$215.00, ISBN: 978-3-527-31738-7; *Information Technology II, Volume 4*, Rainer Waser, 414 pp., \$215.00, ISBN: 978-3-527-31737-0.

### Organic and Physical Chemistry of Polymers

Yves Gnanou and Michel Fontanille, Wiley, 2008, 617 pp., \$99.95, ISBN: 978-0-471-72543-5.

### Phase Equilibria, Phase Diagrams, and Phase Transformations: Their Thermodynamic Basis

*Second Edition*, Mats Hillert, Cambridge University Press, 2007, 510 pp., \$85.00, ISBN: 978-0-521-85351-4.

### Physical Chemistry of Macromolecules

Gary Patterson, Taylor and Francis/ CRC Press, 2007, 136 pp., \$79.95, ISBN: 0-8247-9467-2.

### Physics of Functional Materials

Hasse Fredriksson and Ulla Akerlind, Wiley, 2008, 488 pp., \$100.00, ISBN: 978-0-470-51758-1.

### Plasma Spray Coating: Principles and Applications

Robert B. Heimann, Wiley, 2008, 449 pp., \$200.00, ISBN: 978-3-527-32050-9.

### Polymer Dynamics and Relaxation

Richard H. Boyd and Grant D. Smith, Cambridge University Press, 2007, 255 pp., \$150.00, ISBN: 978-0-521-81419-5.

### The Power of Functional Resins in Organic Synthesis

Fernando Albericio and Judit Tulla-Puche, Editors, Wiley, 2008, 672 pp., \$230.00, ISBN: 978-3-527-31936-7.

### Practical Gamma-ray Spectrometry

*Second Edition*, Gordon Gilmore, Wiley, 2008, 408 pp., \$160.00, ISBN: 978-0-470-86196-7.

### Process Engineering Problem Solving: Avoiding "The Problem Went Away, But It Came Back" Syndrome

J.M. Bonem, Wiley, 2008, 296 pp., \$89.95, ISBN: 978-0-470-16928-5.

### Quantum Hall Effects: Field Theoretical Approach and Related Topics

*Second Edition*, Zyun F. Ezawa, World Scientific, 2008, \$740.00, \$97.00, ISBN: 978-981-270-032-2.

### Reporting Results: A Practical Guide for Engineers and Scientists

David C. Van Aken and William F. Hosford, Cambridge University Press, 2008, 152 pp., \$19.99, ISBN: 978-0-521-72348-0.

### Science and Technology of Polymer Nonfibers

Anthony L. Andrady, Wiley, 2008, 424 pp., \$99.95, ISBN: 978-0-471-79059-4.

### Simple Models of Many Fermion Systems: With Fortran Codes

Paul-Gerhard Reinhard, Joachim A. Maruhn, and Eric Suraud, Wiley, 2008, 270 pp., ISBN: 978-3-527-40731-6.

**Spin Dynamics: Basics of Nuclear Magnetic Resonance**, *Second Edition*, Malcolm H. Levitt, Wiley, 2008, 774 pp., \$220.00, ISBN: 978-0-470-51118-3.

**Statistical Mechanics Made Simple**, *Second Edition*, Daniel C. Mattis and Robert H. Swendsen, World Scientific, 2008, 335 pp., \$42.00, ISBN: 978-981-277-909-0.

**Surface Science: Foundations of Catalysis and Nanoscience**, *Second Edition*, Kurt Kolasinski, Wiley, 2008, 504 pp., \$190.00, ISBN: 978-0-470-03304-3.

**Surfaces, Interfaces, and Thin Films for Microelectronics**, Eugene A. Irene, Wiley, 2008, 515 pp., \$125.00, ISBN: 978-0-470-17447-0.

**Symmetry and Condensed Matter Physics**, Michael El-Batanouny and Frederick Wooten, Cambridge University Press, 2008, 922 pp., \$110.00, ISBN: 978-0-521-82845-1.

**Topological Foundations of Electromagnetism**, Terence W. Barret, World Scientific, 2008, 185 pp., \$69.00, ISBN: 978-981-277-996-0.

**Trace Quantitative Analysis by Mass Spectrometry**, Bob Boyd, Robert Bethem and Cecilia Basic, Wiley, 2008, 752 pp., \$130.00, ISBN: 978-0-470-05771-1.

**Tribology on the Small Scale—A Bottom Up Approach to Friction, Lubrication, and Wear**, Mathew C. Mate, Oxford University Press, 2008, 352 pp., \$110.00, ISBN: 978-0-19-852678-0.

**Wave Propagation: From Electrons to Photonic Crystals and Left-Handed Materials**, Peter Markos and Costas M. Soukoulis, Princeton University Press, 2008, 352 pp., \$65.00, ISBN: 978-0-691-13003-3.

**What Really Sank the Titanic: New Forensic Discoveries**, Jennifer Hooper McCarty and Tim Foecke, Citadel Press, 2008, 320 pp., \$22.95, ISBN: 978-0-8065-2895-3.

**Workbook for Organic Synthesis: Strategy and Control**, Stuart Warren and Paul Wyatt, Wiley, 2008, 500 p., \$70.00, ISBN: 978-0-471-92964-2. □



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	Symposia	Meeting Activities
<p><b>Meeting Chairs</b></p> <p><b>S. Ashok</b> The Pennsylvania State University tel. 814-863-4588 sashok@psu.edu</p> <p><b>Shenda M. Baker</b> Harvey Mudd College tel. 909-621-8643 shenda_baker@hmc.edu</p> <p><b>Michael R. Fitzsimmons</b> Los Alamos National Laboratory tel. 505-665-4045 fitz@lanl.gov</p> <p><b>Young-Chang Joo</b> Seoul National University tel. 82-2-880-8986 ycjoo@snu.ac.kr</p> <p style="text-align: center;">***</p> <p>For Additional Information, visit the MRS Web site at <a href="http://www.mrs.org/meetings/">www.mrs.org/meetings/</a> or contact:</p> <p><b>Member Services</b> Materials Research Society 506 Keystone Drive Warrendale, PA 15086-7573 Tel 724-779-3003 Fax 724-779-8313 info@mrs.org</p> <p><a href="http://www.mrs.org/fall2008">www.mrs.org/fall2008</a></p>	<p><b>ELECTRONICS, PHOTONICS, AND MAGNETISM</b></p> <p>A: Performance and Reliability of Semiconductor Devices</p> <p>B: Transparent Conductors and Semiconductors for Optoelectronics</p> <p>C: Theory and Applications of Ferroelectric and Multiferroic Materials</p> <p>D: Rare-Earth Doping of Advanced Materials for Photonic Applications</p> <p>E: Materials and Technologies for 3-D Integration</p> <p>F: Low-Cost Solution-Based Deposition of Inorganic Films for Electronic/Photonic Devices</p> <p>G: Organic and Hybrid Materials for Large-Area Functional Systems</p> <p>H: Physics and Technology of Organic Semiconductor Devices</p> <p>I: Reliability and Properties of Electronic Devices on Flexible Substrates</p> <p>J: Material Science for Quantum Information Processing Technologies</p> <p>K: Magnetic Nanostructures by Design</p> <p>L: New Materials with High Spin Polarization and Their Applications</p> <p><b>ENERGY AND THE ENVIRONMENT</b></p> <p>M: Energy Harvesting—Molecules and Materials</p> <p>N: Next-Generation and Nano-Architected Photovoltaics</p> <p>O: Structure/Property Relationships in Fluoride-Derivative Compounds</p> <p>P: Photovoltaic Materials and Manufacturing Issues</p> <p>Q: Scientific Basis for Nuclear Waste Management XXXII</p> <p>R: Materials for Future Fusion and Fission Technologies</p> <p>S: Solid-State Ionics</p> <p>T: Mobile Energy</p> <p>U: Advanced Intermetallic-Based Alloys for Extreme Environment and Energy Applications</p> <p><b>ENGINEERED MATERIALS AND MODELING</b></p> <p>V: Materials, Devices, and Characterization for Smart Systems</p> <p>W: Computational Materials Design via Multiscale Modeling</p> <p>Y: Biomineral Interfaces—From Experiment to Theory</p> <p>Z: Mechanics of Biological and Biomedical Materials</p> <p>AA: Materials for Optical Sensors in Biomedical Applications</p> <p>BB: Polymer-Based Smart Materials—Process, Properties, and Application</p> <p>CC: Design, Fabrication, and Self Assembly of “Patchy” and Anisometric Particles</p> <p>DD: Materials in Tissue Engineering</p> <p><b>NANOSCIENCE</b></p> <p>EE: Nano- and Microscale Materials—Mechanical Properties and Behavior under Extreme Environments</p> <p>FF: Nanofunctional Materials, Structures, and Devices for Biomedical Applications</p> <p>GG: Microelectromechanical Systems—Materials and Devices II</p> <p>HH: Advances in Material Design for Regenerative Medicine, Drug Delivery, and Targeting/Imaging</p> <p>II: Bio-inspired Transduction, Fundamentals, and Applications</p> <p>JJ: Nanotubes, Nanowires, Nanobelts, and Nanocoils—Promise, Expectations, and Status</p> <p>KK: Transport Properties in Polymer Nanocomposites</p> <p>LL: Nanowires—Synthesis, Properties, Assembly, and Application</p> <p>MM: Applications of Group IV Semiconductor Nanostructures</p> <p>NN: <i>In-situ</i> Studies across Spatial and Temporal Scales for Nanoscience and Technology</p> <p>OO: Grazing-Incidence Small-Angle X-Ray Scattering</p> <p>PP: Solid-State Chemistry of Inorganic Materials VII</p> <p>QQ: Synthesis and Processing of Organic and Polymeric Functional Materials for a Sustainable Energy Economy</p> <p>RR: Artificially Induced Grain Alignment in Thin Films</p> <p>SS: Selecting and Qualifying New Materials for Use in Regulated Industries</p> <p>TT: Local Structure and Dynamics in Amorphous Systems</p> <p><b>GENERAL INTEREST</b></p> <p>X: Frontiers of Materials Research</p>	<p><b>Symposium Tutorial Program</b></p> <p>Available only to meeting attendees, the symposium tutorials will concentrate on new, rapidly breaking areas of research.</p> <p><b>Exhibit</b></p> <p>A major exhibit encompassing the full spectrum of equipment, instrumentation, products, software, publications, and services is scheduled for December 2-4 in the Hynes Convention Center. Convenient to the technical session rooms and scheduled to complement the program, the MRS Fall Exhibit offers everything you need all under one roof.</p> <p><b>Publications Desk</b></p> <p>A full display of over 950 books will be available at the MRS Publications Desk. Symposium Proceedings from the 2007 MRS Fall Meeting and 2008 MRS Spring Meeting will be featured.</p> <p><b>Student Opportunities</b></p> <p>Graduate students planning to attend the 2008 MRS Fall Meeting are encouraged to apply for a Symposium Assistant position and/or a Graduate Student Award. Applications will be accessible on the MRS Web site by June 1.</p> <p><b>Career Center</b></p> <p>A Career Center for MRS members and meeting attendees will be open Tuesday through Thursday.</p>