

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 K. Wilson, Editorial Assistant, *MRS Bulletin*, 506 Keystone Drive, Warrendale, PA 15086-7573, USA; e-mail bulletin@mrs.org.

Journals

Biomedical Materials. Four issues; first issue: March 2006. Subscription rate: free in 2006 (open access). Institute of Physics Publishing; <http://bmm.iop.org>.

Books

Applications of Materials

Inorganic Scintillators for Detector Systems: Physical Principles and Crystal Engineering, P. Lecoq, A. Annenkov, A. Gektin, M. Korzhik, and C. Pedrini, Springer, 2006, 251 pp., \$129.00, ISBN 3-540-27766-8.

Magnetic Actuators and Sensors, John R. Brauer, Wiley, 2006, 328 pp., \$120.00, ISBN 0-471-73169-2.

Managing Nano-Bio-Info-Cogno Innovations: Converging Technologies in Society, William Sims Bainbridge and Mihail C. Roco, Editors, Springer, 2006, 390 pp., \$129.00, ISBN 1-4020-4106-3.

Metal Matrix Composites: Custom-Made Materials for Automotive and Aerospace Engineering, Karl U. Kainer, Editor, Wiley, 2006, 330 pp., \$170.00, ISBN 3-527-1360-5.

Micro-Nanofabrication: Technologies and Applications, Zheng Cui, Springer, 2006, 300 pp., \$89.95, ISBN 3-540-28922-4.

Modified Fibers with Medical and Specialty Applications, Steve Goheen, Gisela Buschle-Diller, and Vincent Edwards, Editors, Springer, 2006, 240 pp., \$199.00, ISBN 1-4020-3793-7.

Nano Mechanics and Materials: Theory, Multiscale Methods and Applications, Wing Kam Liu, Eduard G. Karpov, and Harold S. Park, Wiley, 2006, 334 pp., \$120.00, ISBN 0-470-01851-8.

Optical Imaging Sensors and Systems for Homeland Security Applications, Bahram Javidi, Springer, 2006, 416 pp., \$149.00, ISBN 0-387-26170-2.

Photorefractive Materials and Their Applications 1: Basic Effects (Springer Series in Optical Sciences, Vol. 113), Peter Günter and Jean-Pierre Huignard, Editors, Springer, 2006, 426 pp., \$139.00, ISBN 0-387-25191-X.

Biomaterials

Nanosystem Characterization Tools in Life Sciences, Challa S.S.R. Kumar, Editor, Wiley, 2006, 412 pp., \$170.00, ISBN 3-527-31383-4.

Experimental Techniques

Neutron and X-Ray Spectroscopy, F. Hippert, E. Geissler, J.L. Hodeau, E. Lelièvre-Berna, and J.-R. Regnard, Editors, Springer, 2006, 566 pp., \$149.00, ISBN 1-4020-3336-2.

Thin Film Analysis by X-Ray Scattering, Mario Birkholz, Wiley, 2006, 378 pp., \$155.00, ISBN 3-527-31052-5.

History, Biography, and Unclassified

Dawn of Fluid Dynamics: A Discipline between Science and Technology, Michael Eckert, Wiley, 2006, 296 pp., \$80.00, ISBN 3-527-40513-5.

Nanotech Pioneers: Where Are They Taking Us? Steven A. Edwards, Wiley, 2005, 254 pp., \$27.95, ISBN 3-527-31290-0.

Inorganic Chemistry, Electrochemistry, Other Chemistry, and Ceramics

Computational Chemistry of Solid State Materials: A Guide for Materials Scientists, Chemists, Physicists and Others, Richard Dronskowski and Roald Hoffmann, Wiley, 2006, 300 pp., \$125.00, ISBN 3-527-31410-5.

Lanthanide and Actinide Chemistry, Simon Cotton, Wiley, 2006, 280 pp., \$160.00, ISBN 0-470-01005-3.

Wide-Gap Chalcopyrites (Springer Series in Materials Science, Vol. 86), S. Siebentritt and U. Rau, Editors, Springer, 2006, 260 pp., \$119.00, ISBN 3-540-24497-2.

Materials Processing

Analytical Electrochemistry in Textiles, P. Westbroek, G. Priniotakis, and P. Kiekens, Woodhead, 2005, 355 pp., \$219.95, ISBN 1-85573-919-4.

Controlled Synthesis of Nanoparticles in Microheterogeneous Systems, Vincenzo Truco Liveri, Springer, 2006, 174 pp., \$79.95, ISBN 0-387-26427-2.

Gallium Nitride Processing for Electronics, Sensors, and Spintronics, Stephen J. Pearton, Cammy R. Abernathy, and Fan Ren, Springer, 2006, 380 pp., \$119.00, ISBN 1-85233-935-7.

Materials Science in Manufacturing, Rajiv Asthana, Ashok Kumar, and Narendra Dahotre, Butterworth-Heinemann, 2006, 656 pp., \$84.95, ISBN 0-7506-7716-3.

Metallurgy

Diffusion in Condensed Matter: Methods, Materials, Models, Paul Heitjans and Jörg Kärger, Springer, 2005, 965 pp., \$179.00, ISBN 3-540-20043-6.

Fundamentals of Solid State Engineering, Manijeh Radeghi, Springer, 2006, 882 pp., \$89.95, ISBN 0-387-28152-5.

High Temperature Strain of Metals and Alloys: Physical Fundamentals, Valim Levitin, Wiley, 2006, 180 pp., \$135.00, ISBN 3-527-31338-9.

Jamming, Yielding, and Irreversible Deformation in Condensed Matter, M. Carmen Miguel and J.M. Rubi, Editors, Springer, 2006, 211 pp., \$59.95, ISBN 3-540-30028-7.

Materials for Engineers and Technicians, R.A. Higgins and W. Bolton, Elsevier, 2006, 416 pp., \$39.95, ISBN 0-7506-6850-4.

Structure, Deformation, and Integrity of Materials (2 vol. set), Gijsbertus de With, Wiley, 2006, 894 pp., \$155.00, ISBN 3-527-31426-1.

Thermodynamics in Materials Science, 2nd Edition, Robert DeHoff, CRC Press, 2006, 624 pp., \$99.95, ISBN 0-8493-4065-9.

Physics and Electronics

Advanced Electronic Packaging, 2nd Edition, Richard K. Ulrich and William D. Brown, Editors, Wiley, 2006, 840 pp., \$125.00, ISBN 0-471-46609-3.

Coherent Sources of XUV Radiation: Soft X-Ray Lasers and High-Order Harmonic Generation (Springer Series in Optical Sciences, Vol. 106), Pierre Jaeglé, Springer, 2006, 416 pp., \$199.00, ISBN 0-387-23007-6.

Nanoscale Transistors: Device Physics, Modeling and Simulation, Mark Lundstrom and Jing Guo, Springer, 2006, 224 pp., \$89.95, ISBN 3-387-28002-2.

Optical Interconnects: The Silicon Approach (Springer Series in Optical Sciences, Vol. 119), L. Pavesi and G. Guillot, Editors, Springer, 2006, 384 pp., \$169.00, ISBN 3-540-28910-0.

Photonics of Molecular Materials: From Single Molecules to Single Crystals, Guglielmo Lanzani, Editor, Wiley, 2006, 600 pp., \$259.00, ISBN 3-527-40456-2.

Unconventional Superconductors: Experimental Investigation of the Order Parameter Summary (Springer Tracts in Modern Physics, Vol. 214), Gernot Goll, Springer, 2006, 171 pp., \$149.00, ISBN 3-540-28985-2.

Polymer Chemistry

Carbon-Rich Compounds: From Molecules to Materials, Michael M. Haley, Rik R. Tykewinski, Editors, Wiley, 2006, 664 pp., \$190.00, ISBN 3-527-31224-2.

Optoelectronics of Molecules and Polymers (Springer Series in Optical Sciences, Vol. 104), André Moliton, Springer, 2006, 498 pp., \$159.00, ISBN 0-387-23710-0.

Soft Matter, Vol. 1: Polymer Melts and Mixtures, Gerhard Gompper and Michael Schick, Editors, Wiley, 2006, 296 pp., \$199.00, ISBN 3-527-30500-9.

Soft Matter, Vol. 2: Complex Colloidal Suspensions, Gerhard Gompper and Michael Schick, Editors, Wiley, 2006, 300 pp., \$180.00, ISBN 3-527-31369-9.

Times of Polymers, Alberto D'Amore and Domenico Acierno, Editors, Wiley, 2006, 324 pp., \$195.00, ISBN 3-527-31331-1.

Structure of Materials

Advanced Magnetic Nanostructures, David Sellmyer and Ralph Skomski, Springer, 2006, 514 pp., \$149.00, ISBN 0-387-23309-1.

Crystal-Liquid-Gas Phase Transitions and Thermodynamic Similarity, Vladimir P. Skripov, Mars Z. Faizullin, and Jörn W.P. Schmelzer, Series Editors, Wiley, 2006, 183 pp., \$150.00, ISBN 3-527-40576-3.

Hartree-Fock-Slater Method for Materials Science: The DV-X Alpha Method for Design and Characterization of Materials (Springer Series in Materials Science, Vol. 84), H. Adachi, T. Mukoyama, and J. Kawai, Editors, Springer, 2006, 240 pp., \$119.00, ISBN 3-540-24508-1.

Magnetism and Structure in Functional Materials (Springer Series in Materials Science, Vol. 79), A. Planes, L. Mañosa, and A. Saxena, Editors, Springer, 2005, 260 pp., \$149.00, ISBN 3-540-23672-4.

Topology in Condensed Matter (Springer Series in Solid-State Sciences, Vol. 150), M.I. Monastyrsky, Editor, Springer, 2006, 256 pp., \$149.00, ISBN 3-540-23406-3. □

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