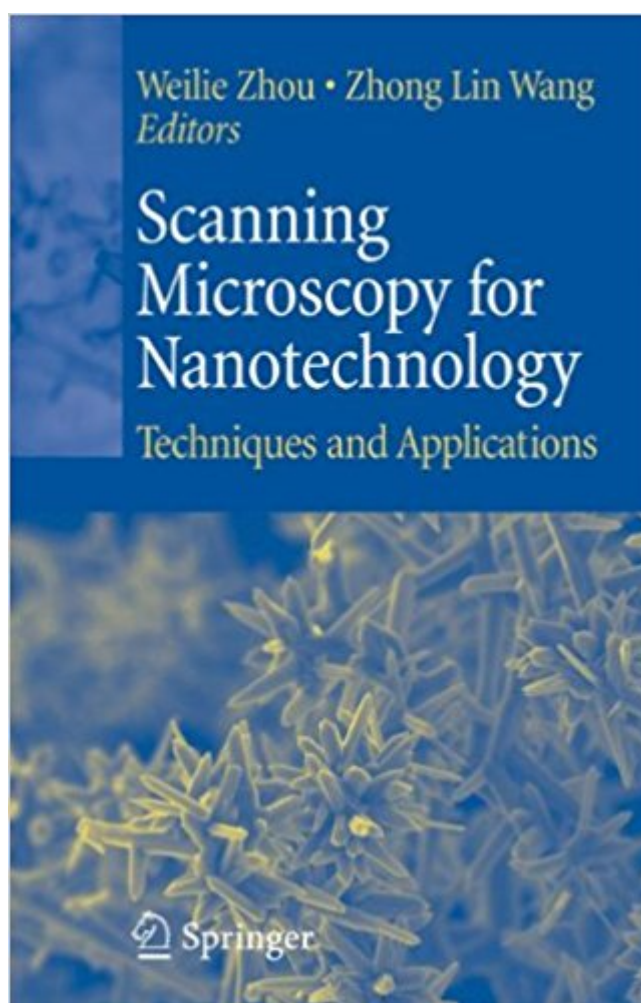


The book was found

Scanning Microscopy For Nanotechnology: Techniques And Applications



Synopsis

This book presents scanning electron microscopy (SEM) fundamentals and applications for nanotechnology. It includes integrated fabrication techniques using the SEM, such as e-beam and FIB, and it covers in-situ nanomanipulation of materials. The book is written by international experts from the top nano-research groups that specialize in nanomaterials characterization. The book will appeal to nanomaterials researchers, and to SEM development specialists.

Book Information

Hardcover: 522 pages

Publisher: Springer; 2007 edition (November 27, 2006)

Language: English

ISBN-10: 0387333258

ISBN-13: 978-0387333250

Product Dimensions: 6.3 x 1.1 x 9.5 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,216,784 in Books (See Top 100 in Books) #107 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing #181 in Books > Engineering & Transportation > Engineering > Reference > Measurements #194 in Books > Science & Math > Technology > Nanotechnology

Customer Reviews

Scanning electron microscopy (SEM) can be exploited not only for nanomaterials characterization but also integrated with new technologies for in-situ nanomaterials engineering and manipulation. Scanning Microscopy for Nanotechnology addresses the rapid development of these techniques for nanotechnology, in both technique and application chapters by leading practitioners. The book covers topics including nanomaterials imaging, X-ray microanalysis, high-resolution SEM, low kV SEM, cryo-SEM, as well as new techniques such as electron back scatter diffraction (EBSD) and scanning transmission electron microscopy (STEM). Fabrication techniques integrated with SEM, such as e-beam nanolithography, nanomanipulation, and focused ion beam nanofabrication, are major new dimensions for SEM application. Application areas include the study of nanoparticles, nanowires and nanotubes, three-dimensional nanostructures, quantum dots, magnetic nanomaterials, photonic structures, and bio-inspired nanomaterials. This book will appeal not only to a broad spectrum of nanomaterials researchers, but also to SEM development specialists.

[Download to continue reading...](#)

Scanning Microscopy for Nanotechnology: Techniques and Applications Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Confocal Laser Scanning Microscopy (Royal Microscopical Society Microscopy Handbooks) Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Scanning Probe Microscopy and Spectroscopy: Theory, Techniques, and Applications Scanning Electron Microscopy: Applications to Materials and Device Science Sonography Scanning: Principles and Protocols, 4e (Ultrasound Scanning) Scanning Electron Microscopy and X-Ray Microanalysis: A Text for Biologists, Materials Scientists, and Geologists Scanning Electron Microscopy and X-ray Microanalysis: Third Edition Scanning Electron Microscopy and X-Ray Microanalysis Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Scanning and Transmission Electron Microscopy: An Introduction Fungal morphology and ecology: Mostly scanning electron microscopy Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis Introduction to Scanning Tunneling Microscopy (Monographs on the Physics and Chemistry of Materials) Scanning Transmission Electron Microscopy: Imaging and Analysis Theory and Practice of Scanning Optical Microscopy Scanning Transmission Electron Microscopy of Nanomaterials : Basics of Imaging and Analysis Normal, Transformed and Leukemic Leukocytes: A Scanning Electron Microscopy Atlas Principles and Practice of Variable Pressure: Environmental Scanning Electron Microscopy (VP-ESEM)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)