



# Scanning Microscopy for Nanotechnology: Techniques and Applications

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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.

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### Editorial Review

From the Back Cover

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.

### Users Review

From reader reviews:

**Hilda Baker:**

The experience that you get from Scanning Microscopy for Nanotechnology: Techniques and Applications will be the more deep you searching the information that hide inside the words the more you get thinking about reading it. It doesn't mean that this book is hard to recognise but Scanning Microscopy for Nanotechnology: Techniques and Applications giving you enjoyment feeling of reading. The article author conveys their point in selected way that can be understood simply by anyone who read this because the author of this publication is well-known enough. That book also makes your personal vocabulary increase well. Making it easy to understand then can go to you, both in printed or e-book style are available. We highly recommend you for having that Scanning Microscopy for Nanotechnology: Techniques and Applications instantly.

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