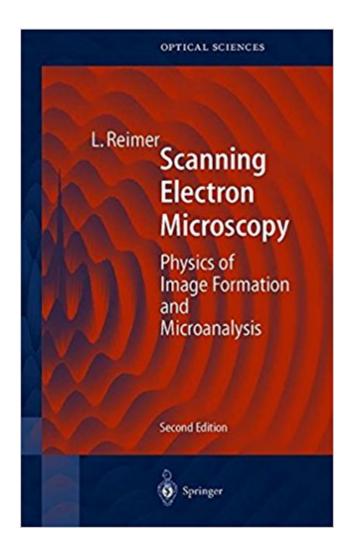


The book was found

Scanning Electron Microscopy: Physics Of Image Formation And Microanalysis (Springer Series In Optical Sciences)





Synopsis

Scanning Electron Microscopy provides a description of the physics of electron-probe formation and of electron-specimen interactions. The different imaging and analytical modes using secondary and backscattered electrons, electron-beam-induced currents, X-ray and Auger electrons, electron channelling effects, and cathodoluminescence are discussed to evaluate specific contrasts and to obtain quantitative information.

Book Information

Series: Springer Series in Optical Sciences (Book 45)

Hardcover: 529 pages

Publisher: Springer; 2nd completely rev. and updated ed. 1998 edition (October 16, 1998)

Language: English

ISBN-10: 3540639764

ISBN-13: 978-3540639763

Product Dimensions: 6.1 x 1.2 x 9.2 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #3,080,082 in Books (See Top 100 in Books) #101 inà Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #1164 inà Books > Science & Math > Physics > Solid-State Physics #2191 inà Â Books > Science & Math > Physics > Electromagnetism

Customer Reviews

"...this book is both linguistically and scientifically outstanding. It is an inspiring book for beginners and experienced SEM operators alike. The list of references is especially useful. This volume makes an outstanding contribution to the deeper understanding of the SEM." T Mulvey, Measurement Science and Technology. 11, No12, December 2000

Scanning Electron Microscopy provides a description of the physics of electron-probe formation and of electron-specimen interations. The different imaging and analytical modes using secondary and backscattered electrons, electron-beam-induced currents, X-ray and Auger electrons, electron channelling effects, and cathodoluminescence are discussed to evaluate specific contrasts and to obtain quantitative information.

This is one of the self-complete books on SEM and the related techniques for intermediate and advanced level of the SEM users or engineers. With a huge list of references, the book explains almost all of the details of instrumentation, electron beam optics, detector strategy, physics of electron-specimen interaction, and practical applications of SEM-based imaging/analyzing techniques. While some of the references cited are German literatures, the book provides the best guide for the SEM techniques and the underlyiong physics for wide range of readers. I recommend it.

Download to continue reading...

Scanning Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences) Transmission Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences.) Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Image Formation in Low-Voltage Scanning Electron Microscopy (SPIE Tutorial Text Vol. TT12) (Tutorial Texts in Optical Engineering) Monte Carlo Modeling for Electron Microscopy and Microanalysis (Oxford Series in Optical and Imaging Sciences) 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 Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis New Horizons of Applied Scanning Electron Microscopy (Springer Series in Surface Sciences) Liquid Cell Electron Microscopy (Advances in Microscopy and Microanalysis) Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Quantum Entanglement in Electron Optics: Generation, Characterization, and Applications (Springer Series on Atomic, Optical, and Plasma Physics) Scanning and Transmission Electron Microscopy: An Introduction Fungal morphology and ecology: Mostly scanning electron microscopy Scanning Transmission Electron Microscopy: Imaging and Analysis Scanning Transmission Electron Microscopy of Nanomaterials: Basics of Imaging and Analysis Scanning Electron Microscopy: Applications to Materials and Device Science Normal, Transformed and Leukemic Leukocytes: A Scanning Electron Microscopy Atlas

Contact Us

DMCA

Privacy

FAQ & Help