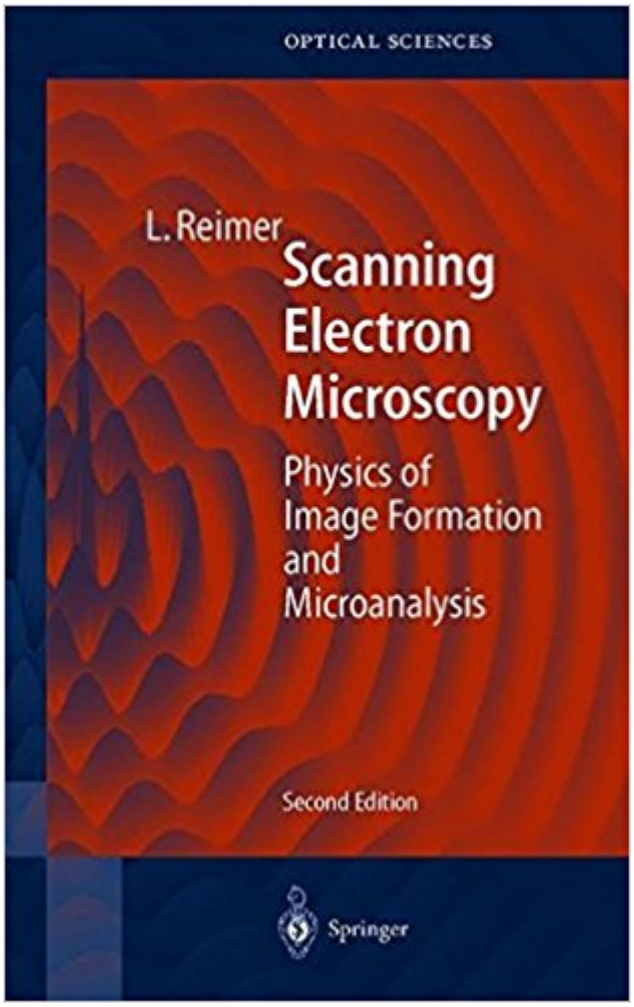
Scanning Electron Microscopy: Physics Of Image Formation And Microanalysis (Springer Series In Optical Sciences)



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 inÂ Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #1164 inÂ Books > Science & Math > Physics > Solid-State Physics #2191 inÂ 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

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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 physicsfor wide range of readers.I recommend it.

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