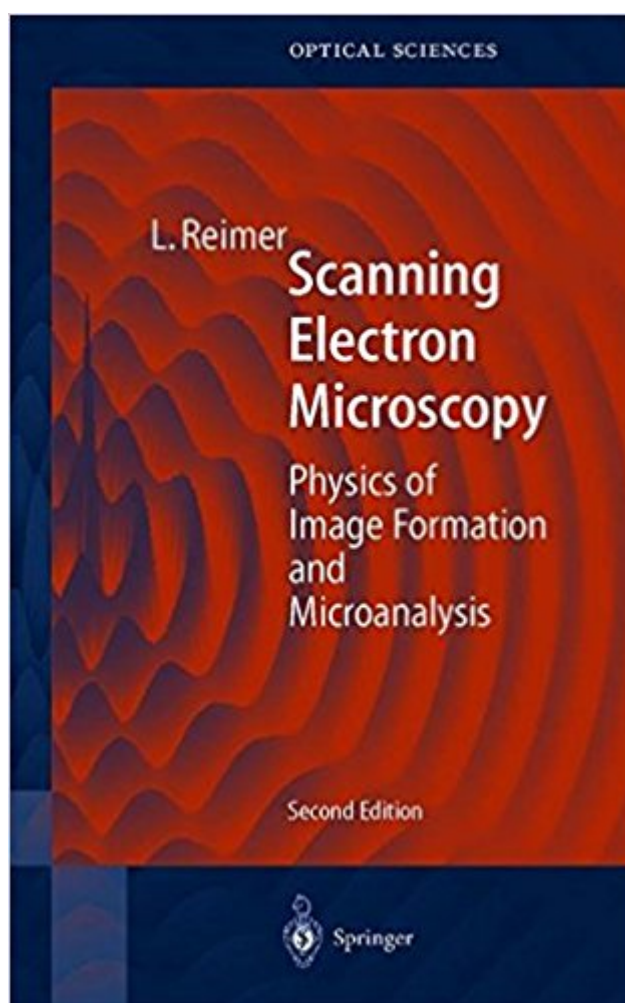


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Scanning Electron Microscopy: Physics Of Image Formation And Microanalysis (Springer Series In Optical Sciences)



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.

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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 underlying physics for wide range of readers. I recommend it.

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