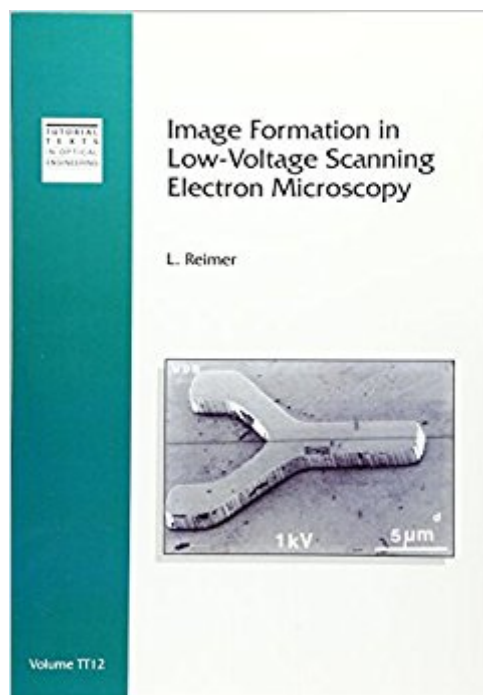




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Image Formation In Low-Voltage Scanning Electron Microscopy (SPIE Tutorial Text Vol. TT12) (Tutorial Texts In Optical Engineering)



Synopsis

While most textbooks about scanning electron microscopy (SEM) cover the high-voltage range from 5-50 keV, this volume considers the special problems in low-voltage SEM and summarizes the differences between LVSEM and conventional SEM. Chapters cover the influence of lens aberrations and design on electron-probe formation; the effect of elastic and inelastic scattering processes on electron diffusion and electron range; charging and radiation damage effects; the dependence of SE yield and the backscattering coefficient on electron energy, surface tilt, and material as well as the angular and energy distributions; and types of image contrast and the differences between LVSEM and conventional SEM modes due to the influence of electron-specimen interactions. Contents: - Introduction - Electron Optics and Instrumentation - Electron Scattering and Diffusion - Backscattered and Secondary-Electron Emission - Specimen Charging and Damage - Signal Formation and Linage Contrast - Electron Spectroscopic Methods

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