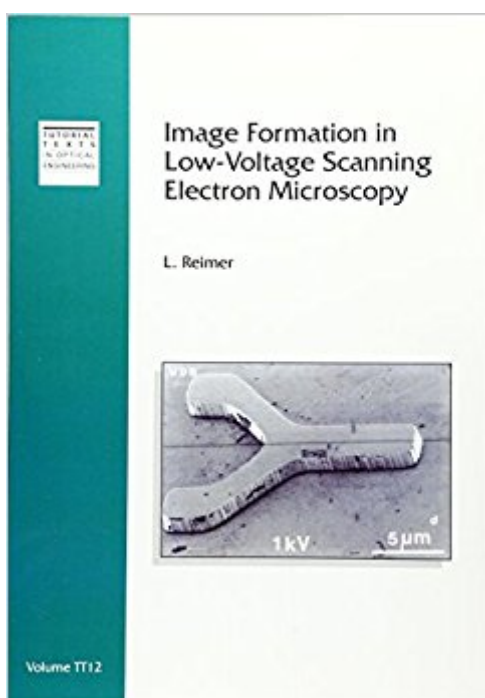


The book was found

# 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

## Book Information

Series: Tutorial Texts in Optical Engineering (Book 12)

Paperback: 117 pages

Publisher: SPIE Press (February 1, 1993)

Language: English

ISBN-10: 0819412066

ISBN-13: 978-0819412065

Product Dimensions: 0.5 x 7 x 10 inches

Shipping Weight: 12.6 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,000,225 in Books (See Top 100 in Books) #98 in [Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy](#) #221 in [Books > Science & Math > Experiments, Instruments & Measurement > Microscopes & Microscopy](#) #1290 in [Books > Science & Math > Physics > Optics](#)

[Download to continue reading...](#)

Image Formation in Low-Voltage Scanning Electron Microscopy (SPIE Tutorial Text Vol. TT12) (Tutorial Texts in Optical Engineering) Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Scanning Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences) Biological Low-Voltage Scanning Electron Microscopy Scanning Electron Microscopy, X-Ray

Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Resolution  
Enhancement Techniques in Optical Lithography (SPIE Tutorial Texts in Optical Engineering Vol. TT47) Optical Design for Visual Systems (SPIE Tutorial Texts in Optical Engineering Vol. TT45)  
Low Carb: 365 Days of Low Carb Recipes (Low Carb, Low Carb Cookbook, Low Carb Diet, Low Carb Recipes, Low Carb Slow Cooker, Low Carb Slow Cooker Recipes, Low Carb Living, Low Carb Diet For Beginners) Transmission Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences,) Diffractive Optics: Design, Fabrication, and Test (SPIE Tutorial Texts in Optical Engineering Vol. TT62) Introduction to Adaptive Optics (SPIE Tutorial Texts in Optical Engineering Vol. TT41) Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Low Carb Diet: Introduction To Low Carb Diet And Recipes Of Low Carb Soups And Casseroles: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Low Carb Cookbook: Delicious Snack Recipes for Weight Loss. (low carbohydrate foods, low carb cooking, low carb diet, low carb recipes, low carb, low carb ... dinner recipes, low carb diets Book 1) Scanning Electron Microscopy and X-Ray Microanalysis: A Text for Biologists, Materials Scientists, and Geologists Low Carb Candy Bars: 25 Low Carb Recipes To Satisfy Your Sweet Tooth: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Handbook of Optical and Laser Scanning, Second Edition (Optical Science and Engineering) Scanning Electron Microscopy and X-ray Microanalysis: Third Edition Scanning Electron Microscopy and X-Ray Microanalysis Scanning and Transmission Electron Microscopy: An Introduction

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)