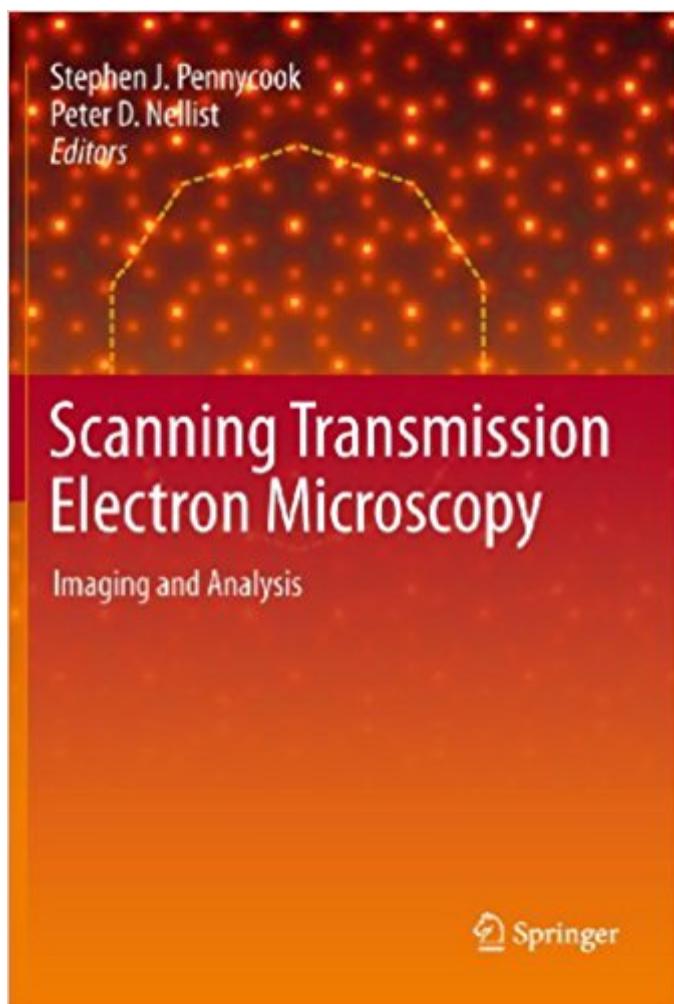


The book was found

Scanning Transmission Electron Microscopy: Imaging And Analysis



Synopsis

Scanning transmission electron microscopy has become a mainstream technique for imaging and analysis at atomic resolution and sensitivity, and the authors of this book are widely credited with bringing the field to its present popularity. *Scanning Transmission Electron Microscopy(STEM): Imaging and Analysis* will provide a comprehensive explanation of the theory and practice of STEM from introductory to advanced levels, covering the instrument, image formation and scattering theory, and definition and measurement of resolution for both imaging and analysis. The authors will present examples of the use of combined imaging and spectroscopy for solving materials problems in a variety of fields, including condensed matter physics, materials science, catalysis, biology, and nanoscience. Therefore this will be a comprehensive reference for those working in applied fields wishing to use the technique, for graduate students learning microscopy for the first time, and for specialists in other fields of microscopy.

Book Information

File Size: 30673 KB

Print Length: 764 pages

Publisher: Springer; 2011 edition (March 24, 2011)

Publication Date: March 24, 2011

Sold by: Digital Services LLC

Language: English

ASIN: B00F5TK65U

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,180,804 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #8 in Kindle Store > Kindle eBooks > Nonfiction > Science > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #25 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Statics #48 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Solid-State Physics

Customer Reviews

I own a dozen TEM books, and I must say this is the most comprehensive STEM book that I have.

The book reviews the history of STEM first, and then goes over basics of STEM imaging, the Ronchigram, simulation/image interpretation, EELS and EDS. The book also covers various applications of STEM and Cs-corrected STEM to materials characterization with plenty of newest data. Leading microscopists contributed to the book. I wish that the book had a chapter on principles of Cs correction. ..the book discusses very little about Cs correction.

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

Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Scanning Transmission Electron Microscopy: Imaging and Analysis Scanning Transmission Electron Microscopy of Nanomaterials : Basics of Imaging and Analysis Scanning Transmission Electron Microscopy of Nanomaterials: Basics of Imaging Analysis Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Scanning and Transmission Electron Microscopy: An Introduction Electron Diffraction in the Transmission Electron Microscope (Microscopy Handbooks) 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 Fungal morphology and ecology: Mostly scanning electron microscopy Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis Scanning Electron Microscopy: Applications to Materials and Device Science Normal, Transformed and Leukemic Leukocytes: A Scanning Electron Microscopy Atlas Principles and Practice of Variable Pressure: Environmental Scanning Electron Microscopy (VP-ESEM) Scanning Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences) Transmission Electron Microscopy and Diffractometry of Materials (Graduate Texts in Physics) Transmission Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences,) Biological Low-Voltage Scanning Electron Microscopy

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)