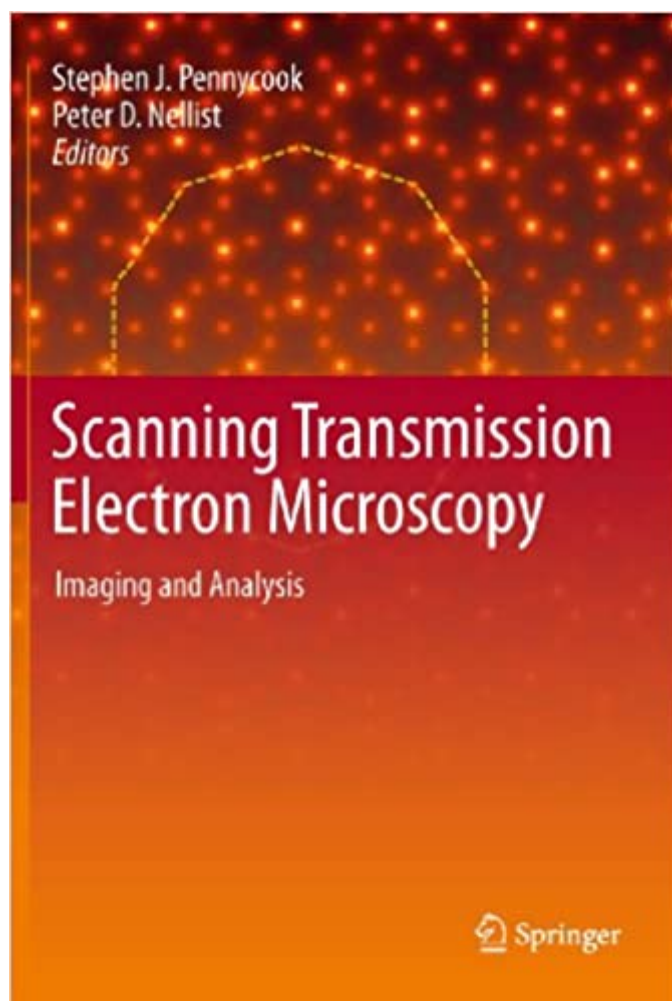


The book was found

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

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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.

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