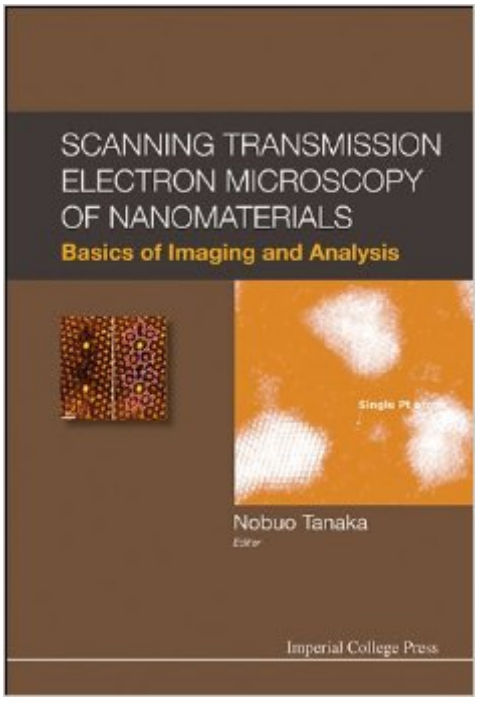
Scanning Transmission Electron Microscopy Of Nanomaterials: Basics Of Imaging Analysis



Synopsis

The basics, present status and future prospects of high-resolution scanning transmission electron microscopy (STEM) are described in the form of a textbook for advanced undergraduates and graduate students. This volume covers recent achievements in the field of STEM obtained with advanced technologies such as spherical aberration correction, monochromator, high-sensitivity electron energy loss spectroscopy and the software of image mapping. The future prospects chapter also deals with z-slice imaging and confocal STEM for 3D analysis of nanostructured materials. Readership: Graduate students and researchers in the field of nanomaterials and nanostructures.

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Scanning Transmission Electron Microscopy of Nanomaterials: Basics of Imaging Analysis D. B. Williams's C. Barry Carter's Transmission Electron Microscopy 2nd(Second) edition (Transmission Electron Microscopy: A Textbook for Materials Science [Hardcover])(2009) Scanning Transmission Electron Microscopy: Imaging and Analysis 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 Handbook of Transmission Electron Microscopy Transmission Electron Microscopy: A Textbook for Materials Science (4 Vol set) Sample Preparation Handbook for Transmission Electron Microscopy: Techniques Transmission Electron Microscopy: Physics of Image Formation (Springer

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