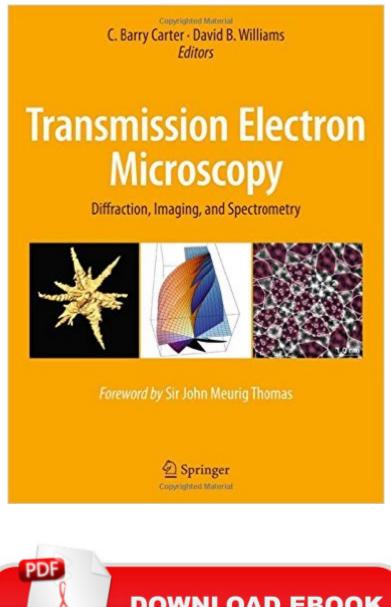
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## **Transmission Electron Microscopy: Diffraction, Imaging, And** Spectrometry





## Synopsis

This text is a companion volume to Transmission Electron Microscopy: A Textbook for Materials Science by Williams and Carter. The aim is to extend the discussion of certain topics that are either rapidly changing at this time or that would benefit from more detailed discussion than space allowed in the primary text. World-renowned researchers have contributed chapters in their area of expertise, and the editors have carefully prepared these chapters to provide a uniform tone and treatment for this exciting material. The book features an unparalleled collection of color figures showcasing the quality and variety of chemical data that can be obtained from todayâ ™s instruments, as well as key pitfalls to avoid. As with the previous TEM text, each chapter contains two sets of questions, one for self assessment and a second more suitable for homework assignments. Throughout the book, the style follows that of Williams & Carter even when the subject matter becomes challenginga •the aim is always to make the topic understandable by first-year graduate students and others who are working in the field of Materials ScienceTopics covered include sources, in-situ experiments, electron diffraction, Digital Micrograph, waves and holography, focal-series reconstruction and direct methods, STEM and tomography, energy-filtered TEM (EFTEM) imaging, and spectrum imaging. The range and depth of material makes this companion volume essential reading for the budding microscopist and a key reference for practicing researchers using these and related techniques.

## **Book Information**

Hardcover: 518 pages Publisher: Springer; 1st ed. 2016 edition (August 25, 2016) Language: English ISBN-10: 3319266497 ISBN-13: 978-3319266497 Product Dimensions: 1.2 x 8.2 x 11 inches Shipping Weight: 2.8 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #537,090 in Books (See Top 100 in Books) #38 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing #68 in Books > Science & Math > Physics > Nanostructures #145 in Books > Science & Math > Physics > Solid-State Physics

Transmission Electron Microscopy: Diffraction, Imaging, and Spectrometry Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Scanning and Transmission Electron Microscopy: An Introduction Transmission Electron Microscopy and Diffractometry of Materials Transmission Electron Microscopy: A Textbook for Materials Science Electron Microprobe Analysis and Scanning Electron Microscopy in Geology 4D Electron Microscopy: Imaging in Space and Time Powder Diffraction: The Rietveld Method and the Two Stage Method to Determine and Refine Crystal Structures from Powder Diffraction Data Electron Spectrometry of Atoms using Synchrotron Radiation (Cambridge Monographs on Atomic, Molecular and Chemical Physics) Flourescence Microscopy of Living Cells in Culture, Part A, Volume 29: Fluorescent Analogs, Labeling Cells, and Basic Microscopy (Methods in Cell Biology, Vol) (Vol 29) Role Microscopy In Semiconductor Failure Analysis (Royal Microscopical Society Microscopy Handbooks) Phenology and Reproductive Aspect of Cannabis Sativa L: Scanning Electron Microscopy of pollen grains, trichomes and pollen physiology in different medium Principles and Practice of Variable Pressure: Environmental Scanning Electron Microscopy (VP-ESEM) Electron Microscopy: Principles and Techniques for Biologists by Bozzola, J.J. 2nd Revised edition (1998) Electron Microscopy and Analysis, Third Edition Biological Electron Microscopy: Theory, Techniques, and Troubleshooting Scanning Electron Microscopy Electron Microscopy Electron Microscopy of Shale Hydrocarbon Reservoirs - AAPG Memoir 102 A Manual of Applied Techniques for Biological Electron Microscopy

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