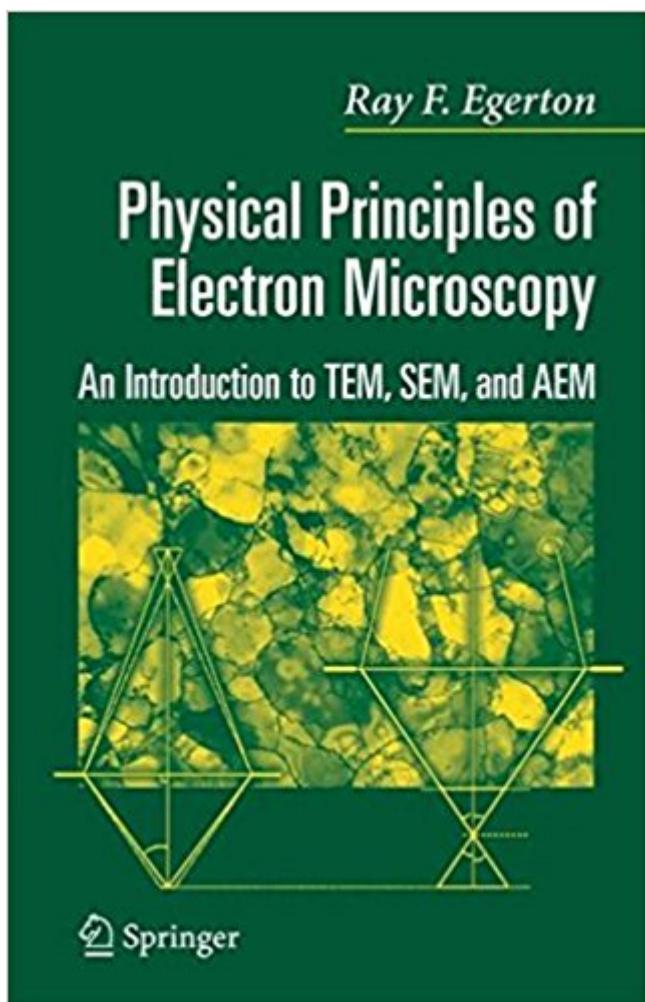


The book was found

# Physical Principles Of Electron Microscopy: An Introduction To TEM, SEM, And AEM



## Synopsis

Scanning and stationary-beam electron microscopes are indispensable tools for both research and routine evaluation in materials science, the semiconductor industry, nanotechnology and the biological, forensic, and medical sciences. This book introduces current theory and practice of electron microscopy, primarily for undergraduates who need to understand how the principles of physics apply in an area of technology that has contributed greatly to our understanding of life processes and "inner space." Physical Principles of Electron Microscopy will appeal to technologists who use electron microscopes and to graduate students, university teachers and researchers who need a concise reference on the basic principles of microscopy.

## Book Information

Hardcover: 202 pages

Publisher: Springer; 1st ed. 2005. Corr. 2nd printing 2011 edition (February 11, 2011)

Language: English

ISBN-10: 0387258000

ISBN-13: 978-0387258003

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 15.2 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,743,206 in Books (See Top 100 in Books) #86 in Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #309 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing #442 in Books > Science & Math > Technology > Nanotechnology

## Customer Reviews

From the reviews: "This book comprises a concise introduction to the fundamental physical concepts of electron microscopy and related analytical techniques . The concepts are well explained and illustrated, and in addition, the author offers a helpful introduction to microscopy, as a whole . The text includes interesting historical tidbits and also alludes to more recent developments . It is suitable for institutional or personal purchase." (Andreas Holzenburg, Microbiology Today, July, 2006) "R.F. Egerton has now written a short book for beginners on electron microscopy in general: Physical Principles of Electron Microscopy, an Introduction to TEM, SEM, and AEM[10]. Extremely simple language is used throughout and newcomers to the subject will be grateful for this text, designed to accompany a one-semester undergraduate

course." (P. W. Hawkes, Ultramicroscopy, Vol. 107 (54), 2007)

Scanning and stationary-beam electron microscopes have become an indispensable tool for both research and routine evaluation in materials science, the semiconductor industry, nanotechnology, and the biological and medical sciences. Physical Principles of Electron Microscopy provides an introduction to the theory and current practice of electron microscopy for undergraduate students who want to acquire an appreciation of how basic principles of physics are utilized in an important area of applied science, and for graduate students and technologists who make use of electron microscopes. At the same time, this book will be equally valuable for university teachers and researchers who need a concise supplemental text that deals with the basic principles of microscopy.

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

Physical Principles of Electron Microscopy: An Introduction to TEM, SEM, and AEM Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Liquid Cell Electron Microscopy (Advances in Microscopy and Microanalysis) Electron Diffraction in the Transmission Electron Microscope (Microscopy Handbooks) Principles and Techniques of Electron Microscopy: v. 1: Biological Applications Principles and Practice of Variable Pressure: Environmental Scanning Electron Microscopy (VP-ESEM) Scanning and Transmission Electron Microscopy: An Introduction Introduction to Electron Microscopy Introduction to Conventional Transmission Electron Microscopy (Cambridge Solid State Science Series) Introduction to Light Microscopy (Royal Microscopical Society Microscopy Handbooks) Monte Carlo Modeling for Electron Microscopy and Microanalysis (Oxford Series in Optical and Imaging Sciences) High Energy Electron Diffraction and Microscopy (Monographs on the Physics and Chemistry of Materials) 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 Diagnostic Electron Microscopy: A Practical Guide to Interpretation and Technique Fungal morphology and ecology: Mostly scanning electron microscopy Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis

[Contact Us](#)

DMCA

Privacy

FAQ & Help