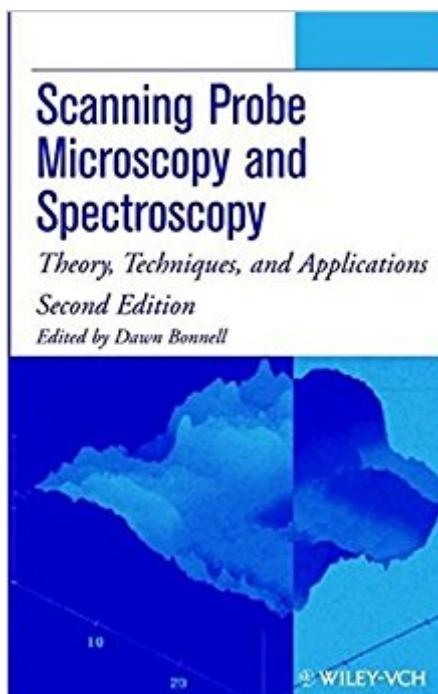


The book was found

Scanning Probe Microscopy And Spectroscopy: Theory, Techniques, And Applications



Synopsis

A practical introduction to basic theory and contemporary applications across a wide range of research disciplines. Over the past two decades, scanning probe microscopies and spectroscopies have gained acceptance as indispensable characterization tools for an array of disciplines. This book provides novices and experienced researchers with a highly accessible treatment of basic theory, alongside detailed examples of current applications of both scanning tunneling and force microscopies and spectroscopies. Like its popular predecessor, *Scanning Probe Microscopy and Spectroscopy*, Second Edition features contributions from distinguished scientists working in a wide range of specialties at university, commercial, and government research labs around the world. Chapters have been edited for clarity, conciseness, and uniformity of presentation to provide professionals with a concise working reference to scanning probe microscopic and spectroscopic principles, techniques, and practices. This Second Edition has been substantially revised and expanded to reflect important advances and new applications. In addition to numerous examples, the Second Edition features expanded coverage of electrostatic and magnetic force microscopies, near-field optical microscopies, and new applications of buried interfaces in nanomechanics, electrochemistry, and biology. *Scanning Probe Microscopy and Spectroscopy*, Second Edition is an indispensable working resource for surface scientists, microscopists, and spectroscopists in materials science, chemistry, engineering, biochemistry, physics, and the life sciences. It is also an unparalleled reference text for advanced undergraduates and graduate students in those fields.

Book Information

Hardcover: 516 pages

Publisher: Wiley-VCH; 2 edition (December 5, 2000)

Language: English

ISBN-10: 047124824X

ISBN-13: 978-0471248248

Product Dimensions: 6.5 x 1.2 x 9.4 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #915,219 in Books (See Top 100 in Books) #25 in Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #271 in Books > Science & Math > Chemistry > Analytic #979 in Books > Medical Books > Medicine > Internal Medicine > Pathology > Clinical Chemistry

Customer Reviews

"Recommended for upper-division undergraduates through professional scientists in chemistry, materials science, physics, and biology." (Choice, Vol. 38, No. 10, June 2001) "My overall impression of this book was positive." (The Alchemist, 4 September, 2001)

A practical introduction to basic theory and contemporary applications across a wide range of research disciplines. Over the past two decades, scanning probe microscopies and spectroscopies have gained acceptance as indispensable characterization tools for an array of disciplines. This book provides novices and experienced researchers with a highly accessible treatment of basic theory, alongside detailed examples of current applications of both scanning tunneling and force microscopies and spectroscopies. Like its popular predecessor, *Scanning Probe Microscopy and Spectroscopy*, Second Edition features contributions from distinguished scientists working in a wide range of specialties at university, commercial, and government research labs around the world. Chapters have been edited for clarity, conciseness, and uniformity of presentation to provide professionals with a concise working reference to scanning probe microscopic and spectroscopic principles, techniques, and practices. This Second Edition has been substantially revised and expanded to reflect important advances and new applications. In addition to numerous examples, the Second Edition features expanded coverage of electrostatic and magnetic force microscopies, near-field optical microscopies, and new applications of buried interfaces in nanomechanics, electrochemistry, and biology. *Scanning Probe Microscopy and Spectroscopy*, Second Edition is an indispensable working resource for surface scientists, microscopists, and spectroscopists in materials science, chemistry, engineering, biochemistry, physics, and the life sciences. It is also an unparalleled reference text for advanced undergraduates and graduate students in those fields.

This book mainly focus on STM. However, it doesn't cover much on AFM. The use of AFM has become increasingly popular in recent years in research investigation in various areas, including cell biology, DNA research, material science, nanotechnology, and so on. The editor may consider include detailed discussion on AFM in next edition (if any).

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

Scanning Probe Microscopy and Spectroscopy: Theory, Techniques, and Applications
Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook
Confocal Laser Scanning Microscopy (Royal Microscopical Society Microscopy)

Handbooks) Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Scanning Microscopy for Nanotechnology: Techniques and Applications Scanning Electron Microscopy: Applications to Materials and Device Science Theory and Practice of Scanning Optical Microscopy Symmetry and Spectroscopy: An Introduction to Vibrational and Electronic Spectroscopy (Dover Books on Chemistry) Sonography Scanning: Principles and Protocols, 4e (Ultrasound Scanning) 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 Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Scanning and Transmission Electron Microscopy: An Introduction Fungal morphology and ecology: Mostly scanning electron microscopy Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis Introduction to Scanning Tunneling Microscopy (Monographs on the Physics and Chemistry of Materials) Scanning Transmission Electron Microscopy: Imaging and Analysis Scanning Transmission Electron Microscopy of Nanomaterials : Basics of Imaging and Analysis Normal, Transformed and Leukemic Leukocytes: A Scanning Electron Microscopy Atlas

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)