

Scanning Probe Microscopy and Spectroscopy: Methods and Applications

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Scanning Probe Microscopy And Spectroscopy Methods And Applications Document for Scanning Probe Microscopy And Spectroscopy Methods And Applications is available in various format such as PDF, DOC and ePUB. SCANNING PROBE MICROSCOPY AND SPECTROSCOPY Theory, Techniques, and Applications Second Edition Edited by 2 Basic Principles of Scanning Probe Microscopy 7 Dawn A. Bonneil and Bryan D. Huey Emerging NSOM Methods and Applications / Conclusions / VIII CONTENTS. Basically, a scanning probe microscope is an instrument for positioning a sharp tip at a defined distance above the surface of some sample. In contradistinction to other positioning instruments, the scanning probe microscope works on the nanometer scale.

Beginning with the theoretical background of scanning tunnelling microscopy, the design and instrumentation of practical STM and associated systems are described in detail, as are the applications of these techniques in fields such as condensed matter physics, chemistry, biology, and nanotechnology.

Scanning Probe Microscopy brings up to date a constantly growing knowledge base of electrical and electromechanical characterization at the nanoscale. This comprehensive, two-volume set presents practical and theoretical issues of advanced scanning probe microscopy (SPM) techniques ranging from fundamental physical studies to device characterization, failure analysis, and nanofabrication.

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