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Applied Scanning Probe Methods VIII

Scanning Probe
Microscopy
Techniques

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Bharat Bhushan,Harald Fuchs



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Applied Scanning Probe Methods IV Bharat Bhushan, Harald Fuchs, 2006-04-28 Provides a comprehensive overview of SPM applications The international perspective offered in these three volumes contributes to the evolution of SPM techniques Volumes II III and IV examine the physical and technical foundation for progress in applied near field scanning probe techniques

Applied Scanning Probe Methods VIII Bharat Bhushan, Harald Fuchs, Masahiko Tomitori, 2010-11-16 The volumes VIII IX and X examine the physical and technical foundation for recent progress in applied scanning probe techniques This is the first book to summarize the state of the art of this technique The field is progressing so fast that there is a need for a set of volumes every 12 to 18 months to capture latest developments These volumes constitute a timely comprehensive overview of SPM applications

Applied Scanning Probe Methods X Bharat Bhushan, Harald Fuchs, Masahiko Tomitori, 2007-12-20 The volumes VIII IX and X examine the physical and technical foundation for recent progress in applied scanning probe techniques This is the first book to summarize the state of the art of this technique The field is progressing so fast that there is a need for a set of volumes every 12 to 18 months to capture latest developments These volumes constitute a timely comprehensive overview of SPM applications

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Applied Scanning Probe Methods XI Bharat Bhushan, Harald Fuchs, 2008-10-22 The volumes XI XII and XIII examine the physical and technical foundation for recent progress in applied scanning probe techniques These volumes constitute a timely comprehensive overview of SPM applications Real industrial applications are included

Applied Scanning Probe Methods XIII Bharat Bhushan, Harald Fuchs, 2008-10-29 The volumes XI XII and XIII examine the physical and technical foundation for recent progress in applied scanning probe techniques The first volume came out in January 2004 the second to fourth volumes in early 2006 and the fifth to seventh volumes in late 2006 The field is progressing so fast that there is a need for a set of volumes every 12 to 18 months to capture latest developments These volumes constitute a timely comprehensive overview of SPM applications After introducing scanning probe microscopy including sensor technology and tip characterization chapters on use in various industrial applications are presented Industrial applications span topographic and dynamical surface studies of thin film semiconductors polymers paper ceramics and magnetic and biological materials The chapters have been written by leading researchers and application scientists from all over the world and from various industries to provide a broader perspective

Applied Scanning Probe Methods XII Bharat Bhushan, Harald Fuchs, 2008-10-24 Crack initiation and growth are key issues when it comes to the mechanical reliability of microelectronic

devices and microelectromechanical systems MEMS. Especially in organic electronics where flexible substrates will play a major role, these issues will become of utmost importance. It is therefore necessary to develop methods which in situ allow the experimental investigation of surface deformation and fracture processes in thin layers at a micro and nanometer scale. While scanning electron microscopy SEM might be used, it is also associated with some major experimental drawbacks. First of all, if polymers are investigated, they usually have to be coated with a metal layer due to their commonly non-conductive nature. Additionally, they might be damaged by the electron beam of the microscope or the vacuum might cause outgassing of solvents or evaporation of water and thus change material properties. Furthermore, for all kinds of materials, a considerable amount of experimental effort is necessary to build a tensile testing machine that fits into the chamber. Therefore, a very promising alternative to SEM is based on the use of an atomic force microscope (AFM) to observe in situ surface deformation processes during straining of a specimen. First steps towards this goal were shown in the 1990s [14], but none of these approaches truly was a microtensile test with sample thicknesses in the range of micrometers. To the authors' knowledge, this was shown for the first time by Hild et al. [5, 16].

Scanning Probe Microscopy in Nanoscience and Nanotechnology

Bharat Bhushan, 2010-01-22. This book presents the physical and technical foundation of the state of the art in applied scanning probe techniques. It constitutes a comprehensive overview of SPM applications. The chapters are written by leading researchers and application scientists.

Applied Scanning Probe Methods II Bharat Bhushan, Harald Fuchs, 2006-06-22. The Nobel Prize of 1986 on Scanning Tunneling Microscopy signaled a new era in imaging. The scanning probes emerged as a new instrument for imaging with a precision sufficient to delineate single atoms. At first, there were two: the Scanning Tunneling Microscope or STM and the Atomic Force Microscope or AFM. The STM relies on electrons tunneling between tip and sample, whereas the AFM depends on the force acting on the tip when it was placed near the sample. These were quickly followed by the Magnetic Force Microscope (MFM) and the Electrostatic Force Microscope (EFM). The MFM will image a single magnetic bit with features as small as 10 nm. With the EFM, one can monitor the charge of a single electron. Prof. Paul Hansma at Santa Barbara opened the door even wider when he was able to image biological objects in aqueous environments. At this point, the sluice gates were opened, and a multitude of different instruments appeared. There are significant differences between the Scanning Probe Microscopes or SPM and others such as the Scanning Electron Microscope or SEM. The probe microscopes do not require preparation of the sample and they operate in ambient atmosphere, whereas the SEM must operate in a vacuum environment and the sample must be cross-sectioned to expose the proper surface. However, the SEM can record 3D images and movies, features that are not available with the scanning probes.

Applied Scanning Probe Methods VII

Bharat Bhushan, Harald Fuchs, 2006-11-09. The first volume in the series was released in January 2004, and the second to fourth volumes in early 2006. The field is now progressing so fast that there is a need for one volume every 12 to 18 months to capture latest developments. Volume VII presents 9 chapters on a variety of new and emerging techniques and refinements.

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