

B. Bhushan
H. Fuchs (Eds.)

Applied Scanning Probe Methods XI

Scanning Probe
Microscopy
Techniques

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Bharat Bhushan, Harald Fuchs



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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 VII Bharat Bhushan, Harald Fuchs, 2006-11-10 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 of SPM applications **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 in 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 in 5 16 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 III Bharat Bhushan, Harald Fuchs, 2006-04-28 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 10nm. 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 image and movies, features that are not available with the scanning probes.

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 10nm. 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 image and movies, features that are not available with the scanning probes.

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written by an international team of over 140 distinguished experts and put together by an experienced editor with a comprehensive understanding of the field almost all the chapters are either new or substantially revised and expanded with new topics of interest added It is an essential resource for anyone working in the rapidly evolving field of key technology including mechanical and electrical engineers materials scientists physicists and chemists

Applied Scanning Probe Methods V Bharat Bhushan, Harald Fuchs, Satoshi Kawata, 2006-11-04 The scanning probe microscopy eld has been rapidly expanding It is a demanding task to collect a timely overview of this eld with an emphasis on technical dev opments and industrial applications It became evident while editing Vols I IV that a large number of technical and applicational aspects are present and rapidly veloping worldwide Considering the success of Vols I IV and the fact that further colleagues from leading laboratories were ready to contribute their latest achie ments we decided to expand the series with articles touching elds not covered in the previous volumes The response and support of our colleagues were excellent making it possible to edit another three volumes of the series In contrast to to cal conference proceedings the applied scanning probe methods intend to give an overview of recent developments as a compendium for both practical applications and recent basic research results and novel technical developments with respect to instrumentation and probes The present volumes cover three main areas novel probes and techniques Vol V charactarization Vol VI and biomimetics and industrial applications Vol VII Volume V includes an overview of probe and sensor technologies including integrated cantilever concepts electrostatic microscanners low noise methods and improved dynamic force microscopy techniques high resonance dynamic force croscopy and the torsional resonance method modelling of tip cantilever systems scanning probe methods approaches for elasticity and adhesion measurements on the nanometer scale as well as optical applications of scanning probe techniques based on near eld Raman spectroscopy and imaging

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Scanning Probe Microscopy Sergei V. Kalinin, Alexei Gruverman, 2007-04-03 This volume will be devoted to the technical aspects of electrical and electromechanical SPM probes and SPM imaging on the limits of resolution thus providing technical introduction into the field This volume will also address the fundamental physical phenomena underpinning the imaging mechanism of SPMs

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