

NANOSCIENCE
AND TECHNOLOGY

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Applied Scanning Probe Methods IX

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Applied Scanning Probe Methods Ix

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Applied Scanning Probe Methods Ix:

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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 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 Es

cially in organic electronics where exible substrates will play a major role these issues will become of utmost importance It is therefore necessary to develop me ods 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 Additi ally they might be damaged by the electron beam of the microscope or the vacuum might cause outgasing of solvents or evaporation of water and thus change material properties Furthermore for all kinds of materials a considerable amount of expe mental effort is necessary to build a tensile testing machine that ts 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 1 4 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 rst time by Hild et al in 5 16

Applied Scanning Probe Methods: Scanning probe microscopy techniques ,2004 **Applied Scanning Probe Methods X** Bharat Bhushan,Harald Fuchs,Masahiko Tomitori,2008-01-11 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 VI Bharat Bhushan,Satoshi Kawata,2006-11-07 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 VI presents 10 chapters on a variety of new and emerging techniques and refinements of SPM applications

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