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Applied Scanning Probe Methods II Bharat Bhushan,Harald Fuchs,2006-02-21 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 images and movies, features that are not available with the scanning probes.

Scanning Probe Microscopy in Nanoscience and Nanotechnology Bharat Bhushan, 2016-04-01. 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.

Forces in Scanning Probe Methods H.-J. Güntherodt, D. Anselmetti, E. Meyer, 2012-12-06. Proceedings of the NATO Advanced Study Institute Schluchsee, Germany, March 7-18, 1994.

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