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# Scanning Force Microscopy Of Polymers

**scanning force microscopy: imaging & cellular elasticity** - biophysics lab coursescanning force microscopy: imaging & cellular elasticity this lab experiment gives an introduction into scanning force microscopy (sfm) and demon- **scanning force microscopy - uni-due** - introduction the scanning probe microscopy (spm) was invented in the early 1980's. now, spms are used in a wide variety of disciplines, including fundamental surface science, semiconductor **scanning force microscopy and related techniques** - outline afm: 1. examples, links and homework 2. afm principle and structure 3. tip-surface interactions 4. feedback techniques 5. force-distance curves and modes of **scanning force microscopy: basics - ptb** - scanning force microscopy: basics the magnetic force microscope is a further development of the scanning force microscope or atomic force microscope (afm). the afm has been developed by binnig, quate, and gerber in 1986. in the force microscope a sensor is scanned over the sample. in the case of the afm the sensor consists of a microscopically sharp tip (tip radius about 20 nm) mounted at the ... **scanning tunneling microscopy stm atomic force microscopy afm** - • the components of a scanning probe microscope spm • the scanner • measurement of the distance between surface and tip • the cantilever • basic principles of scanning tunneling microscopy stm **scanning force microscopy - department of physics** - scanning force microscopy "nanostructure characterization techniques" ut-austin. phys 392 t, unique # 59770. me 397 unique # 19079. che 384, unique # **atomic force microscopy - technische universität münchen** - atomic force microscopy is a high resolution type of scanning probe microscopy that allows us to see and measure surface structure in length scale 10nm-100µm with unprecedented resolution and accuracy (lateral resolution~30 nm, vertical resolution~0.1 nm) **phase contrast in tapping-mode scanning force microscopy** - appl. phys. a 66, s309-s312 (1998) applied physics a materials science & processing springer-verlag 1998 phase contrast in tapping-mode scanning force microscopy **scanning force microscopy - gbv** - scanning force microscopy with applications to electric, magnetic and atomic forces revised edition dror sarid optical sciences center university of arizona-tucson **scanning force microscopy - contact mode** - • contact afm on naf(001) • observation of atomic lattice moirée-effect) • step width approximately 1nm indication of tip radius • single atoms or atomic defects not visible

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