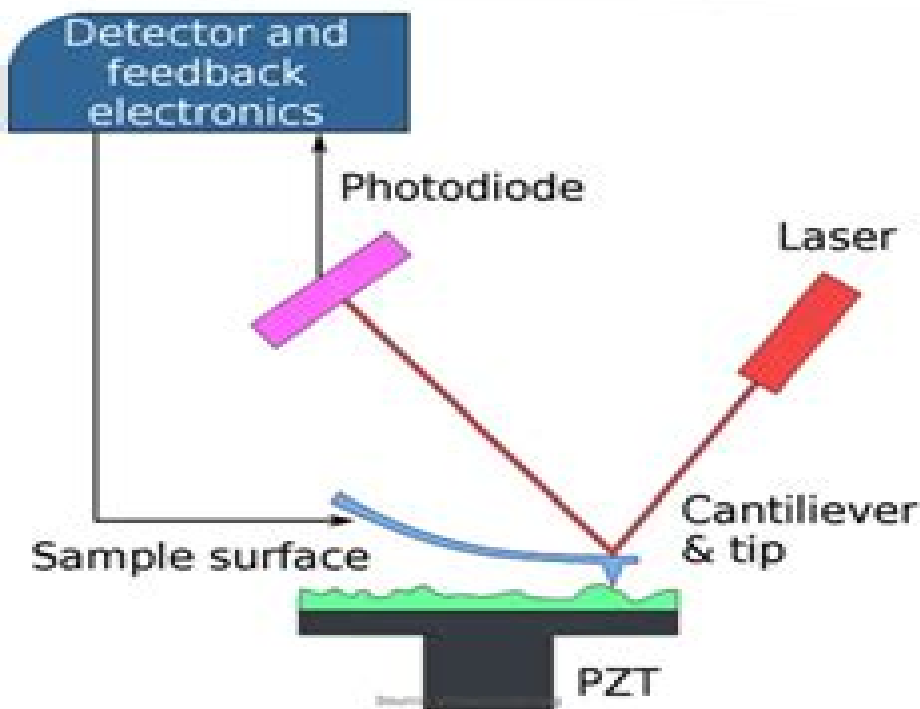
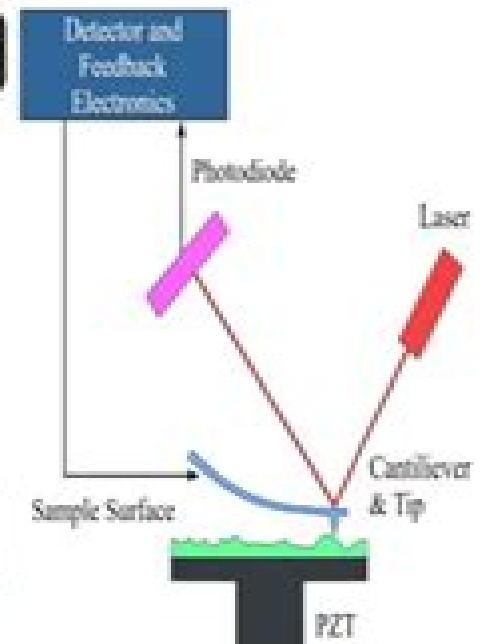


Atomic Force Microscope (Afm)

- Atomic Force Microscopy (AFM) is a pivotal scanning probe microscopy method that has enhanced nanoscale imaging since its 1986 invention
- AFM works by scanning a sample's surface with a sharp tip on a cantilever, creating a high-resolution 3D map
- It operates in three modes: contact, tapping, and non-contact, catering to various applications, from material morphology to molecular biology
- While offering benefits like high resolution and minimal sample preparation, AFM has limitations like slow scanning speed and potential sample damage
- Future developments focus on faster imaging and multifunctional probes



Atomic Force Microscope



Atomic Force Microscopy Understanding Basic Modes And Advanced Applications

J Ma



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