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The atomic force microscopy analysis, supported by theoretical arguments, reveals that the fibrils have a multistranded helical shape with twisted ribbon-like structures. Our results also indicate a possible general model for amyloid fibril assembly and illustrate the potential of this approach for investigating fibrillar systems.

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Atomic force microscopy is arguably the most versatile and powerful microscopy technology for studying samples at nanoscale. It is versatile because an atomic force microscope can not only image in three-dimensional topography, but it also provides various types of surface measurements to the needs of scientists and engineers.

Lecture 10: Basics of Atomic Force Microscope (AFM)
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Atomic force microscopy (AFM) is a type of scanning probe microscopy (SPM), with demonstrated resolution on the order of fractions of a nanometer, more than 1000 times better than the optical diffraction limit. The information is gathered by "feeling" or "touching" the surface with a mechanical probe.

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Addressing the gap in the field, Atomic Force Microscopy is a comprehensive primer covering knowledge readers need in order to become astute operators of AFM, including basic principles, data analysis, and such applications as imaging, materials property characterization, in-liquid interfacial analysis, tribology (friction/wear), electrostatics, and more.

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