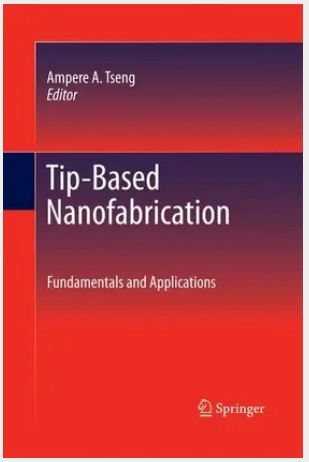
Tseng

Tip-Based Nanofabrication

Fundamentals and Applications

Nanofabrication is critical to the realization of potential benefits in the field of electronics, bioengineering and material science. One enabling technology in nanofabrication is Tip-Based Nanofabrication, which makes use of functionalized micro-cantilevers with nanoscale tips. Tip-Based Nanofabrication: Fundamentals and Applications discusses the development of cantilevered nanotips and how they evolved from scanning probe microscopy and are able to manipulate environments at nanoscale on substrates generating different nanoscale patterns and structures. Also covered are the advantages of ultra-high resolution capability, how to use tip based nanofabrication technology as a tool in the manufacturing of nanoscale structures, single-probe tip technologies, multiple-probe tip methodology, 3-D modeling using tip based nanofabrication and the latest in imaging technology.

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