



# Foundations of Nanomechanics: From Solid-State Theory to Device Applications (Advanced Texts in Physics)

*Andrew N. Cleland*

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**Foundations of Nanomechanics: From Solid-State Theory to Device Applications (Advanced Texts in Physics)** Andrew N. Cleland

This text provides an introduction, at the level of an advanced student in engineering or physics, to the field of nanomechanics and nanomechanical devices. It provides a unified discussion of solid mechanics, transducer applications, and sources of noise and nonlinearity in such devices. Demonstrated applications of these devices, as well as an introduction to fabrication techniques, are also discussed. The text concludes with an overview of future technologies, including the potential use of carbon nanotubes and other molecular assemblies.



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