

Phonons in Nanostructures: Device Applications

Michael A. Stroscio  
U.S. Army Research Office,  
Research Triangle Park,  
NC 27709-2211

The dielectric continuum model of optical phonons and the elastic continuum model of acoustic phonons provide tractable models of dimensionally-confined phonons and they provide a convenient basis for modeling phonon effects in nanostructures. This talk will highlight recent applications of approximate continuum models to a variety of device applications and potential device applications.