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Wednesday, September 06, 2017

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Positioning

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Nanopositioning
A Step Ahead

Nanopositioning and Precision Motion Control: A Step Ahead

Nanopositioning mechanisms are key to progress in fields as diverse as materials science, genomics, photonics, defense, biophysics and semiconductors. A nanopositioning mechanism is defined as a positioning device capable of nanometer or sub-nanometer resolution. There are several types of nanopositioners; the article covers several new designs, including miniature inertia motors, parallel kinematics, voice-coil drives, frictionless air bearing stages and piezo-driven, flexure guided stages equipped with direct metrology feedback. The pace of innovation in recent years has been blistering.

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