

Building NEMS With Graphene

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In addition to its appeal as a substrate material for electronic devices at high frequencies, graphene offers great promise for nanoelectromechanical systems (NEMS). The material features exceptional mechanical properties, including low mass and high stiffness (which accounts for its capabilities to achieve high resonant frequencies) and superior strength. The material is chemically inert, enabling the fabrication of atomically thin devices that are ideal for use in optical and microwave/millimeter-wave communications devices. However, work remains to be done on the large-scale production of graphene materials in order to make it economically feasible for a wide range of applications. Work performed by researchers at Columbia University (New York, NY) explored the potential uses of graphene materials for NRMS applications. To learn more, click [here](#).

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