عنوان مقاله:

Mechanical Modeling of Carbon Nanotubes

محل انتشار:

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خلاصه مقاله:

In this paper carbon nanotubes are modeled using a method called molecular structural mechanics. Then the mechanical model is utilized to find out the elastic properties of these nanostructures including elastic and shear moduli. Various types of carbon nanotubes having different chiralities, diameters, lengths and number of walls are .investigated. The obtained results are in good agreement with those reported by other researchers

کلمات کلیدی:

carbon nanotube; modeling; elastic properties; molecular structural mechanics; nanomechanics

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