

عنوان مقاله:

Vibration of Triple –Walled Embedded Armchair Carbon Nanotubes Under Compressive Axial force Based on Nonlocal Beam Theory

محل انتشار:

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نویسنده:

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خلاصه مقاله:

Free vibration of triple-walled simply supported armchair carbon nanotubes (CNTs) has been investigated based on nonlocal Timoshenko beam theory and the effects of initial compressive axial force, existence of elastic medium, aspect ratio, chiral indices and small scale have been studied on it. The results show that the increase in the initial compression axial force leads to decrease in the in-phase frequency to zero. Also it is seen that aspect ratio and initial compression axial force do not affect out-of-phase frequency of unembedded and embedded CNTs significantly.

کلمات کلیدی:

Vibration, Compressive axial force, Armchair carbon nanotubes, Triple-walled CNTs

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