

### عنوان مقاله:

Nonlinear Vibration Analysis of Single-Walled Carbon Nanotube Using Energy Balance Method

## محل انتشار:

همایش یافته های نوین در هوافضا و علوم وابسته (سال: 1394)

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#### خلاصه مقاله:

In this paper, the Energy Balance Method (EBM) has been used for study on vibration of SingleWalled Carbon Nanotubes (SWCNTs) based on the nonlocal Timoshenko beam theory. Comparison between EBM solutions with numerical results leads to highly accurate solutions. It has indicated that by utilizing energy balance method, just one iteration leads us to high accuracy of solutions. The results reveal that the energy balance method is very effective .and simple

## كلمات كليدي:

Single-Walled Carbon Nanotubes, Energy Balance Method (EBM), Non-linear vibration Timoshenko beam theory, Frequency

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