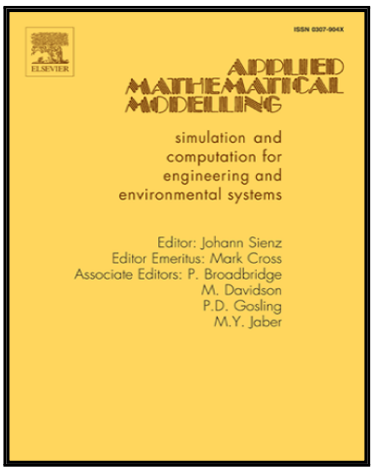

Axial dynamic buckling analysis of embedded single-walled carbon nanotube by complex structure-preserving method

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Highlights

- Load on CNT depends on spatial coordinate and isn't perpendicular to the CNT axis.
- A complex structure-preserving method is proposed for oscillation model of CNT.
- Axial dynamic buckling is more likely to occur with increase of axial load.
- Axial dynamic buckling is more likely to occur with frequency of load close to MHz.