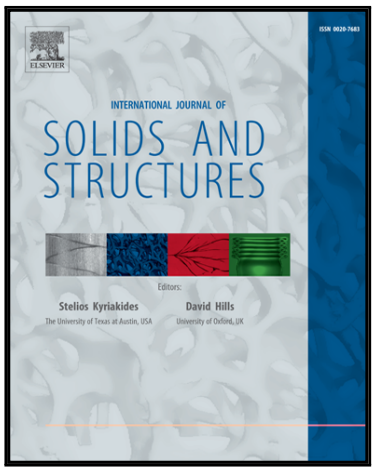

A mode-independent energy-based buckling analysis method and its application on substrate-supported graphene

Shengtao Wang , Yuli Chen , Jian Wu , Kuijian Yang , Fei Pan

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Highlights

- A mode-independent method for critical buckling prediction is proposed.
- The buckling strains of supported graphene under complex loads are obtained.
- A unified analytical criterion is built to predict buckling of supported graphene.