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Non-linear bending analysis of multi-layer orthotropic annular/circular graphene sheets embedded in elastic matrix in thermal environment based on non-local elasticity theory

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## Highlights

- The nonlinear bending analysis of multi-layer annular/circular graphene.
- Applying the DQM and a new innovative semi-analytical polynomial method (SAPM).
- The local and nonlocal analysis distances with rise of the van der Waals interactions.
- The local and non-local results approaches along the increase of  $\Delta T$ .
- The deflection of the layers approach with increase of the van der Waals interactions.

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