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A new approach to the evaluation of Casimir and van der Waals forces in the transition region

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Highlights

- A proportion of Casimir and van der Waals forces is considered in the transition area
- A mathematical model is proposed to consider forces based on their domination region
- Any point of plate may be exposed to Casimir, van der Waals or a proportion of them
- The effect of nonlocal parameters on the mechanical behavior of nanoplate is studied

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