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Effective elastic properties for layered composites considering non-uniform imperfect adhesion

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Highlights

- Analytical expressions for the elastic interlayer properties are derived for layered composites.
- Two-layers model with non-uniform imperfect adhesion is considered.
- The three-layers model provides excellent approximation to the two-layers model.
- The effective properties are calculated using numerical and analytical models for layered composites.

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