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Modeling large amplitude vibration of matrix cracked hybrid laminated plates containing CNTR-FG layers

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**Highlights**

- A numerical framework for large amplitude vibration analysis of matrix cracked hybrid laminated plates.
- Matrix crack is considered based on self-consistent model.
- We show that the crack density of matrix cracks plays an important role in vibration of hybrid laminated plates.
- Parametric studies are conducted to investigate effects of various parameters on nonlinear vibration responses.

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