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A generalized model for thermoelastic damping in beams with mid-plane stretching nonlinearity

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Highlights

- Presents a generalized model to capture thermoelastic damping in beams with mid-plane stretching nonlinearity
- Results obtained with this model are different from the ones presented in literature
- Reasons for deviation are systematically analyzed and explained
- Highlights the importances of correctly capturing the coupled nature of interactions between the thermal and displacement fields

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