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Coupled Vibration Characteristics of a Rotating Composite  
Thin-walled Beam Subjected to Aerodynamic Force in Hygrothermal  
Environment

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## Highlights

- Coupled vibrations of a rotating composite thin-walled beam are studied.
- Combined effects of hygrothermal and aerodynamic loading are considered.
- Effects of installation mode on the bending-bending coupled vibrations are analyzed.

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