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Dynamic Characteristics of Rub-impact on Rotor System with Cylindrical Shell

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## Highlights

- A rub-impact force model between shell and stator is developed.
- The dynamic model of rub-impact rotor system with cylindrical shell is established.
- The rub-impact force model is validated by finite element method.
- The effects of cylindrical shell on dynamic behaviors of rotor system are investigated.
- The proposed model can be used to analyze the rub-impact responses of shell-stator contact.

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