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Title: Nonlinear dynamics of a cable-pulley system using the absolute nodal coordinate formulation

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## **Nonlinear dynamics of a cable-pulley system using the absolute nodal coordinate formulation**

### **Highlights**

- Absolute Nodal Coordinate Formulation was used for the modelling of cable dynamics.
- Contact forces including friction were define to describe cable-pulley interaction.
- The created computational model was verified for a drive-cable-pulley-weight system.
- The modelling approach is capable to consider transverse vibrations of cables.

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