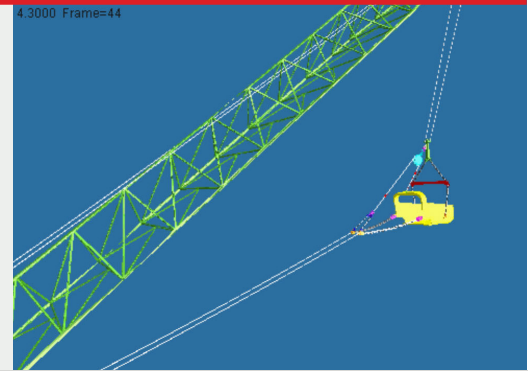


Adams/Cable Toolkit V2010

Bring Cable simulation capability in your Adams environment



Overview

Adams/Cable is a toolkit for Adams developed in close cooperation with end users and validated in industrial projects. Adams/Cable allows the user to create and simulate cable subsystems in the Adams environment.

The cable is a flexible body in contact with pulleys, that supports large deformations and displacements. It can be found in numerous domains like ground transportation, heavy equipment, space, elevator, electronics ...Beyond its primary role (coupling), the contribution of the cable to both statics and dynamics of a system can be significant (inertia, stiffness, sliding, etc.)

Thanks to Adams/Cable toolkit, Adams users can now model and simulate easily complex cable subsystem into complete mechanism, and evaluate their influence on the global behaviour.

Some of the Adams/Cable toolkit features are:

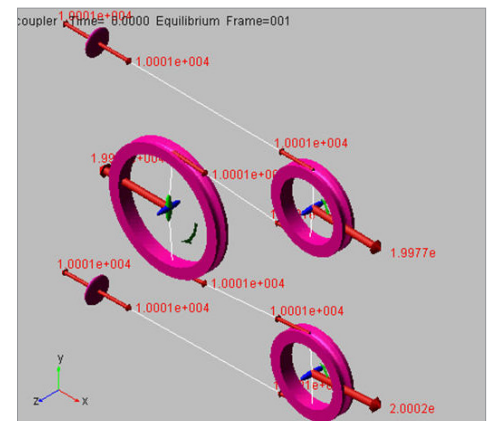
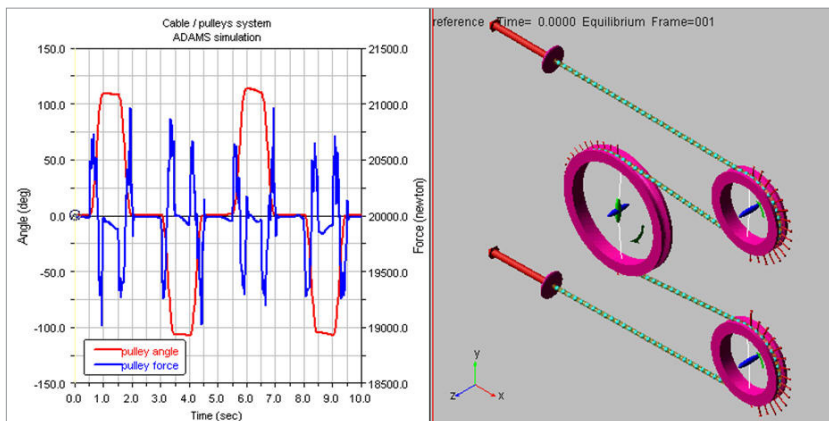
- Graphical user interface for:
 - creation of pulley with associated rotation direction
 - creation of beginning/end part of open circuit
 - wrapping the cable
- 3 levels of cable complexity:
 - System model for fast calculation
 - Discrete models with 2 options to take into account different DOF and associated stiffness for more precise calculation and cable span vibration mode capture
- Friction simulation
- Out of plane movement capability

Capabilities

- Pulley creation tool
- Automatic wrapping tool of open/closed cable circuit
- 3 levels of cable model to have the best compromise between simulation time and precision
- Out of plane movement

Benefits

- Adams users can now model and simulate easily complex cable subsystem into complete mechanism, and evaluate their influence on the global behaviour



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