Unsteady Flow Past a Cylinder - Pre-Analysis & Start-Up

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Problem Specification

- 1. Pre-Analysis & Start-Up
- 2. Geometry
- 3. Mesh
- 4. Physics Setup
- 5. Numerical Solution
- 6. Numerical Results
- 7. Verification & Validation

Exercises

Comments

Pre-Analysis & Start-Up

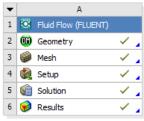
Please complete the "Steady Flow past a Cylinder tutorial before completing this tutorial. Click here to go to the problem statement of the "Steady Flow Past a Cylinder" tutorial.

Alternatively, click here to download the completed project files for the "Steady Flow Past a Cylinder" tutorial.

The pre-analysis is the same for both steady and unsteady flow past a cylinder. Click here to go to the pre-analysis of the "Steady Flow Past a Cylinder" tutorial.

To start-up, open your completed "Steady Flow Past a Cylinder" project file. (If using the completed version in the zip file above, extract the files and open "Cylinder.wbpj".)

Right-click on Fluid Flow (FLUENT) and then click **Duplicate**. Enter "Unsteady Flow" in the highlighted field to rename it. Your Project Schematic should now appear as below.



Steady Flow



Unsteady Flow

Go to Step 2: Geometry

Go to all FLUENT Learning Modules