AIM Bike Crank - Mesh

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Problem Specification

1. Pre-Analysis & Start-Up

2. Geometry

3. Mesh

4. Physics Setup 5. Numerical Results, Verification & Validation

Mesh

The video below demonstrates the steps to mesh the geometry using Hexahedral elements which look like boxes. Hexahedral (or hex) elements yield higher accuracy compared with the default tetrahedral (or tet) elements for the same number of nodes.

Summary of above video:

- Open the Mesh settings
- Create a Body Sizing for the crank body of .2in
 Create a Face Sizing the fixed supports of .1in
- Specify the Element Shape to be Hexahedrons
- Generate the Mesh

Go to Step 4: Physics Setup

Go to all ANSYS AIM Learning Modules