Bike Crank - 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
Pre-Analysis
In the pre-analysis step, we review the:
 Mathematical model Numerical solution strategy Hand calculations of expected results
Governing Equations
Additional Equations
Traction at the Boundary
Boundary Conditions
Numerical Solution Strategy
Hand Calculations
Check Your Understanding
Which one of the following assumptions is contained in the <i>strain-displacement</i> relations in the mathematical model that we will solve using ANSYS? (See e dX module for answer)
a. Acceleration at any point in the structure is zero
b. Material is in the elastic range
c. Material is isotropic
d. Strains are small
e. All of the above

Go to Step 2: Geometry

Go to all ANSYS Learning Modules