Bike Crank - Exercises

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Exercises

Exercise 1: Modeling a Different Crank Geometry

Problem Specification (pdf file)

Geometry: Download parasolid file

Geometry Dimensions (for hand calculations): See this pdf file

Exercise 2: Modeling a Cantilever Beam using Beam Theory, 2D Elasticity and 3D Elasticity

Problem Specification (pdf file)

Quick Video Summary:

- creating new coordinate systems
- positioning coordinating systems to create construction geometry
- determine displacements at any location
- how to create a mid-beam surface to determine the stresses along the midplane of the beam

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