Stepped Shaft - Numerical Results

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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

Numerical Results

The following video shows how to plot the deformed shape and use it to check if the boundary conditions (displacement constraints and point load) have been applied correctly.

The following video shows how to plot the normal stress in the axial direction. The stress concentration factor can be deduced from this plot.

In the video below, we visualize the full 3D shape by revolving the 2D (axisymmetric) geometry about the axis.

Go to Step 7: Verification and Validation

Go to all ANSYS Learning Modules