2D Steady Conduction - Numerical Results

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Problem Specification 1. Pre-Analysis 2. Geometry 3. Mesh 4. Model Setup 5. Numerical Solution 6. Numerical Results 7. Verification & Validation Exercises Comments

Problem Specification

- 1. Pre-analysis
- 2. Geometry
- 3. Mesh
- 4. Model Setup
- 5. Numerical Solution
- 6. Numerical Results
- 7. Verification & Validation

Temperature Contours

Check your Understanding

Consider the following steps: 1. Invert the stiffness matrix to determine the nodal temperature values.

2. Plot the temperature contours using nodal temperature values.Steps 1 and 2 take the same amount of time.Step 1 takes a longer time than step 2.Step 1 takes a shorter time than step 2.

(To see the answer, go to the 2D Conduction section of Module 1 in our free online course on ANSYS simulations. You need to sign in to edX.org to access the course.)

Heat Flux Vectors

Probe Temperature

Temperature Along a Line

Go to Step 7: Verification & Validation

Go to all ANSYS Learning Modules