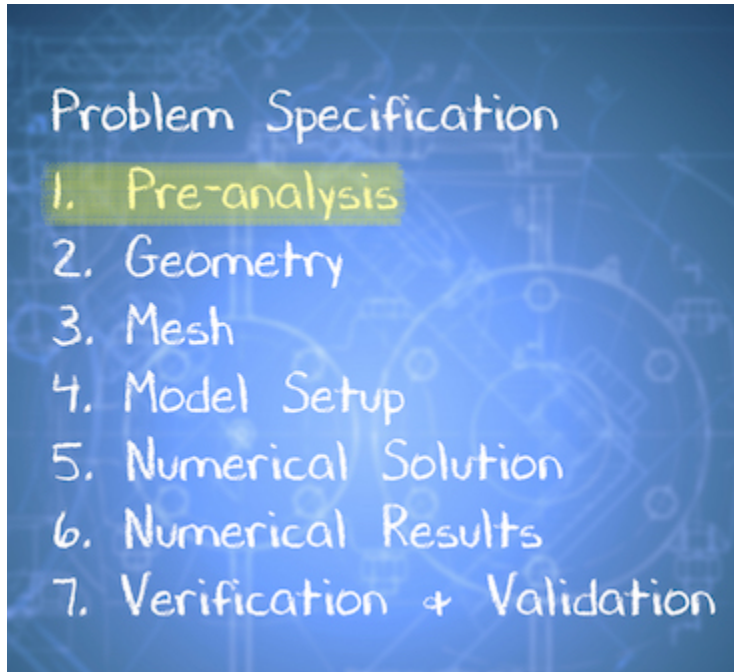


2D Steady Conduction - Pre-Analysis

Author: Rajesh Bhaskaran, Cornell University

Problem Specification

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



Problem Overview

Check your Understanding

Select true or false:

If the Biot number is increased, less heat will be exchanged between the block and the fluid bathing the right face.

(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.)

Mathematical Model

Discretization

How to Find Nodal Temperatures

How to Derive Algebraic Equations

How to Reduce the Numerical Error

Hand Calculations

[Go to Step 2: Geometry](#)

[Go to all ANSYS Learning Modules](#)