Module Template - Pre-Analysis & Start-Up

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Pre-Analysis & Start-Up

Pre-Analysis

In the *Pre-Analysis* step, we'll review the following:

- **Mathematical model:** (e.g.: We'll look at the governing equations + boundary conditions and the assumptions contained within the mathematical model.)
- **Numerical solution procedure in ANSYS:** (e.g.: We'll briefly overview the solution strategy used by ANSYS and contrast it to the hand calculation approach.)
- **Hand-calculations of expected results:** (e.g.: We'll use an analytical solution of the mathematical model to predict the expected stress field from ANSYS. We'll pay close attention to additional assumptions that have to be made in order to obtain an analytical solution.)

Mathematical Model

⚠️ Under Construction

Numerical Solution Procedure in ANSYS

⚠️ Under Construction

Hand-Calculations of Expected Results

⚠️ Under Construction

Start-Up

⚠️ Under Construction

Go to Step 2: Geometry

Go to all (ANSYS or FLUENT) Learning Modules