## ANSYS 12 - Beam (2D Element) - Step 3

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**Problem Specification** 

- 1. Pre-Analysis & Start-Up
- 2. Geometry
- 3. Mesh
- 4. Setup (Physics)
- 5. Solution
- 6. Results
- 7. Verification & Validation

## Step 3: Mesh

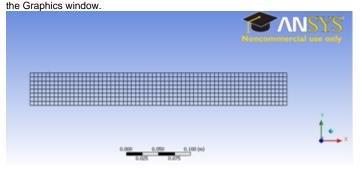
Save your work in Workbench window. In the Workbench window, right click on Mesh, and click Edit. A new ANSYS Mesher window will open.

We would like to create a structured mesh where the opposite edges correspond with each other. Let's insert a Mapped Face mesh.

## Outline > Mesh > Insert > Mapped Face Meshing

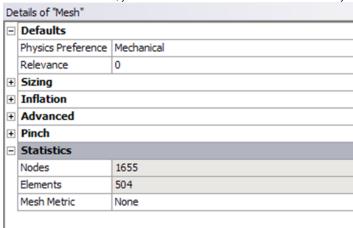
Under *Outline*, right click on *Mesh*, move cursor to *Insert*, and select *Mapped Face Meshing*. Finally select the beam surface body in the *Graphics* window and click *Apply* next to *Geometry*.

We can now generate the mesh using the default setting. Under *Outline*, right click on *Mesh* and click *Generate Mesh*. This should be the mesh appear in



Higher Resolution Image

Under Details of "Mesh", you should see that we have 504 elements when you expand the Statistics tree.



## Go to Step 4: Setup (Physics)

See and rate the complete Learning Module

Go to all ANSYS Learning Modules