## **Radiation Between Surfaces - Mesh**

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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

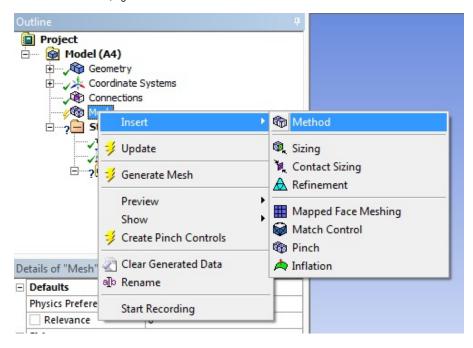
Exercises

Comments

## Mesh

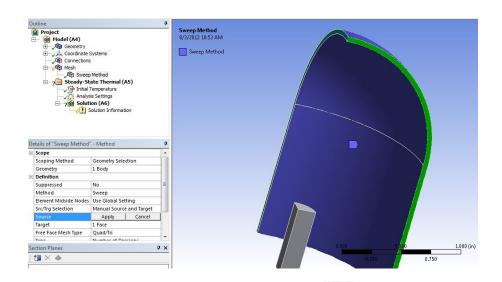
Double click on *Model* to launch ANSYS Mechanical.

In the Outline window, right click on Mesh > Insert > Method.

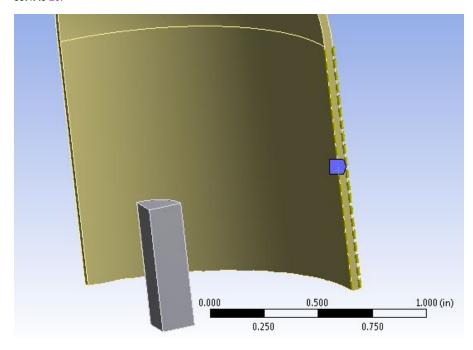


Select the entire shell body for geometry and click on apply.

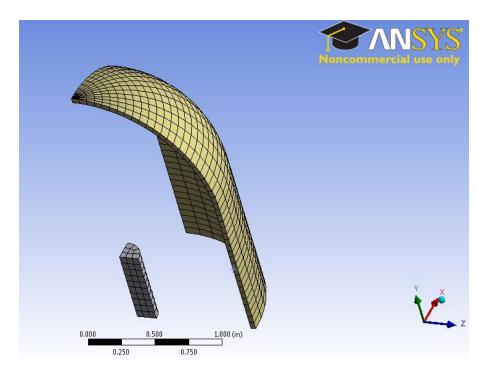
In the *Details of "Automatic Method" -Method* window, change the *Method* from *Automatic* to *Sweep*. Select *Manual Source and Target* for *Src/Trg Selection*. Set the cross sectional face on one side of the shell to source and the other cross sectional face of the shell to target.



Right click on *Mesh > Insert > Sizing*. Use the edge selection tool to select the outer and inner walls of the shell. Use *Number of Divisions* and set it to 20.



We will use the default mesh size. Right click on *Mesh* > *Generate Mesh* to create the mesh.



Keep ANSYS Mechanical open and move to Setup.

Go to Step 4: Physics Setup

Go to all ANSYS Learning Modules