FEM Analysis Report on Rectangular Thin Plate Loading

(Non-conforming 4-noded MZC Rectangular Element)

Plate Variables

Length: 10.00 Width: 10.00 Thickness: 0.0010

Density: 0

Young's Modulus: 1.1e+12 Poisson's Ratio: 0.30

Result Summary

Total Nodes: 9
Total Elements: 4

Max. Vertical Displacement: -0.15625

Min. Vertical Displacement: 0

Max. X-Rotation: 0 Min. X-Rotation: 0 Max. Y-Rotation: 0 Min. Y-Rotation: 0

Max. Mx-Stress: -4.875 Min. Mx-Stress: -2.2204e-16 Max. My-Stress: -4.875 Min. My-Stress: -2.2204e-16 Max. Mxy-Stress: -0.4375 Min. Mxy-Stress: 0

Max. Vertical Reaction Force: 17.5 Min. Vertical Reaction Force: 0 Max. X-Reaction Moment: 22.917 Min. X-Reaction Moment: 0 Max. Y-Reaction Moment: 22.917 Min. Y-Reaction Moment: 0

Contour Plots

















