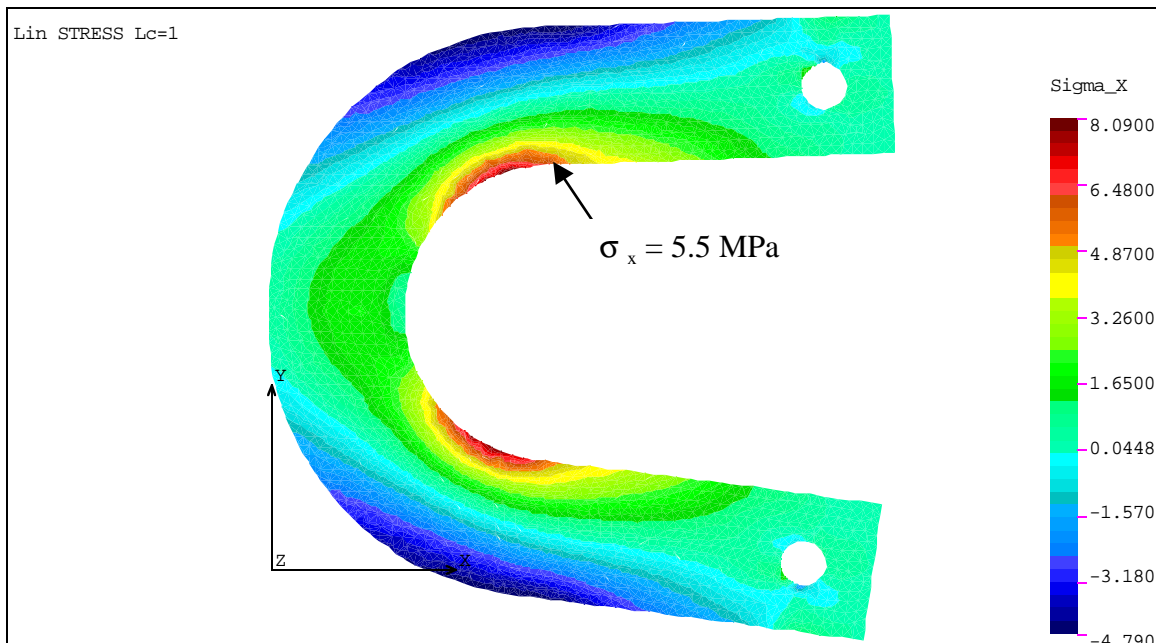
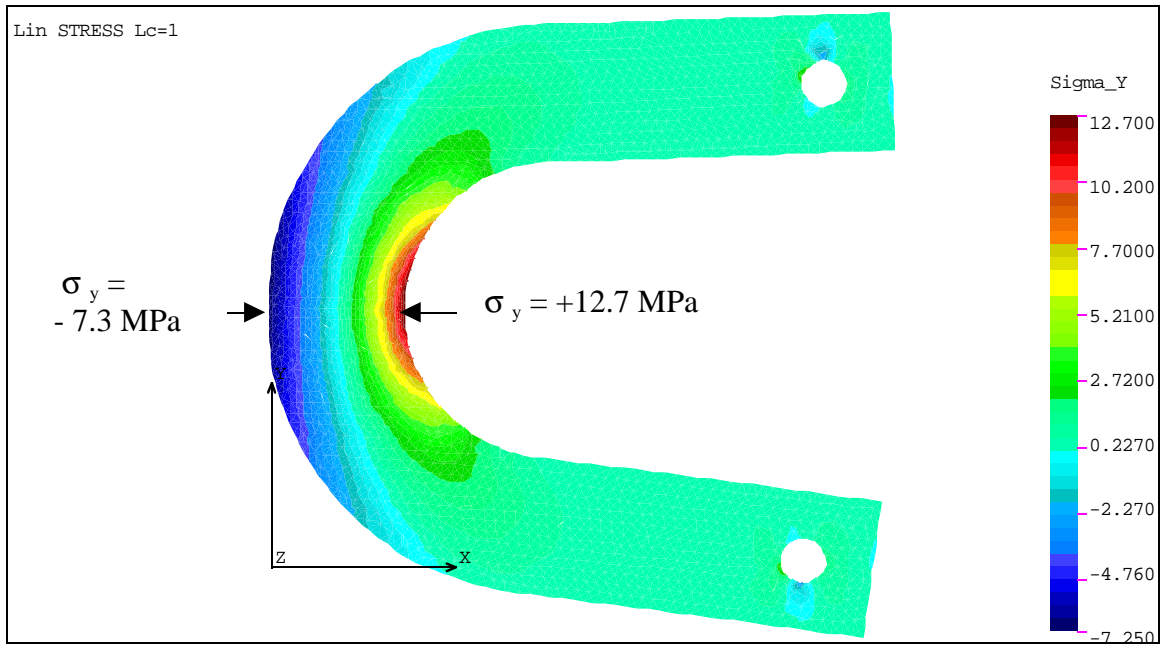


Plane stress two-dimensional model: 1787 elements (both quadrilateral and triangular) and 1350 nodes. Nodal loading and constraints at the pin holes.



Normal stress in the x-direction. Stress at the end of the straight leg just before the curved section can be analyzed using the straight beam assumption ( $\sigma = My/I$ ).



Normal stress in the y-direction. Stress at the deepest part of the curve cannot be analyzed using the straight beam assumption ( $\sigma = My/I$ ) but must use the curved beam relations ( $\sigma = My/(Ae(y + \rho))$ )