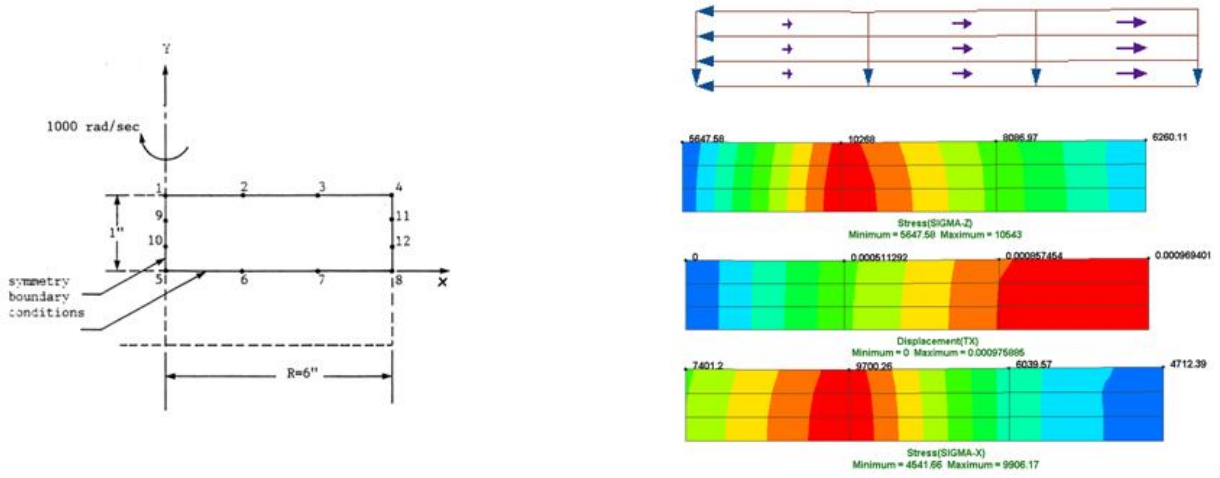


Static analysis of uniform thickness rotating disc



Material property : $E = 3 \times 10^7 \text{ psi}$, $\nu = 0.3$, $\rho = 0.000733085 \text{ lb-sec}^2 / \text{in}^4$

Element type : 2D axisymmetric solid element, circular disc of 12 inch diameter and 2 inch thick is rotating at an angular speed of 1000 rad/sec, Symmetric boundary conditions are applied along the X-axis by setting $U_Y = 0.0$ and along the Y-axis by setting $U_X = 0.0$

Finite element Statistics

Number of nodes	Number of elements	Degrees of freedom
16	9	24

Output parameters	FEAST ^{SMT}	NISA2 [®]
Deflection at node # (10^{-3} in)		
1	0.00	0.00
2	0.51	0.48
3	0.86	0.83
4	0.97	0.91