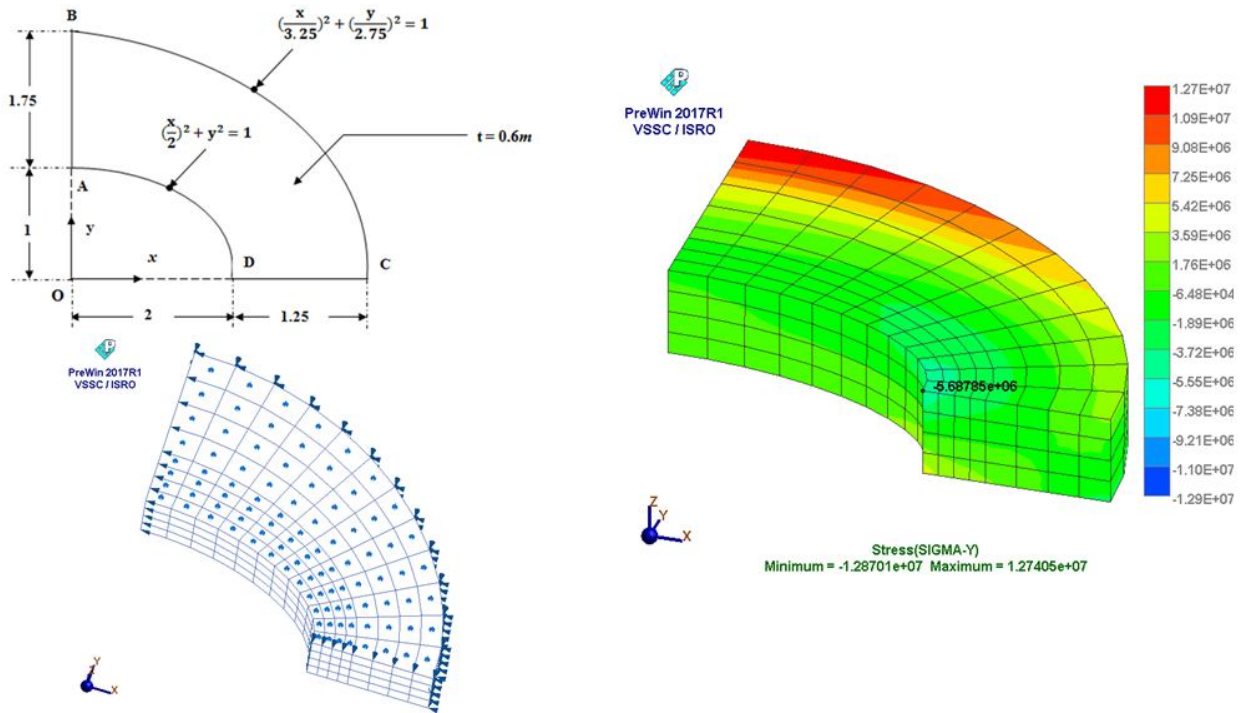


Static analysis of thick plate pressure



Loading	:	Uniform normal pressure of 1 MPa on the upper surface of plate						
Boundary condition	:	Face DCC'D' :U _y = 0,Face ABB' A' :U _x = 0, Face BCC' B' :U _x = U _y = 0 and U _z = 0 along mid plane.						
Material property	:	E = 210 GPa, ν = 0.3						
Element types	:	Solid hexahedron - 8 node						
Finite element statistics	:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Number of elements</td> <td style="width: 33%;">Number of nodes</td> <td style="width: 33%;">Degrees of freedom</td> </tr> <tr> <td style="text-align: center;">384</td> <td style="text-align: center;">585</td> <td style="text-align: center;">1532</td> </tr> </table>	Number of elements	Number of nodes	Degrees of freedom	384	585	1532
Number of elements	Number of nodes	Degrees of freedom						
384	585	1532						

Direct stress σ_{yy} (MPa) at point D	
NAFEMS	-5.38
FEAST^{SMT}	-5.68
NASTRAN[®]	-5.54