**Cantilever Beam (10x1x1) under uniform pressure**

The same mesh of 8-node shell element in NONSAP was used and loading was applied in both inplane and transeverse directions.

Material properties

Elastic modulus = 12.1 x103

Poisson ratio = 0.20

Density = 0.000001

Loading = 2.85 , Step loading, both in-plane loading and transverse

Central displacement 

FEM = 3.583 in plane loading, 3.456 transverse loading

Nat. frequancy = 1106 rad/sec (in plane) 1126 rad/sec (transverse)

Period = 0.00568 sec (in plane) 0.00558 sec (transverse)





Case (1) In Plane Loading



Case (2) Transverse Loading