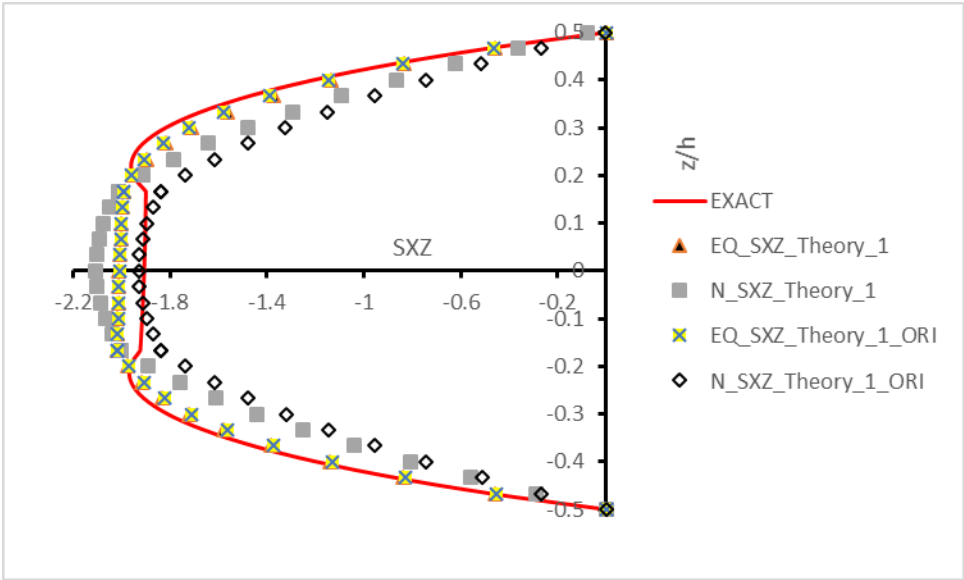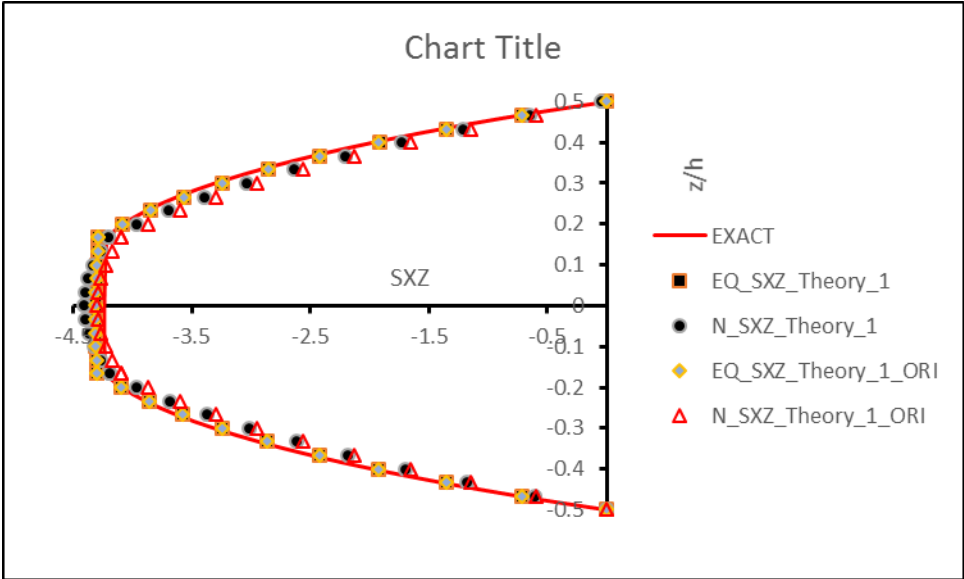# Results for a simply supported three layered (0/90/0) beam
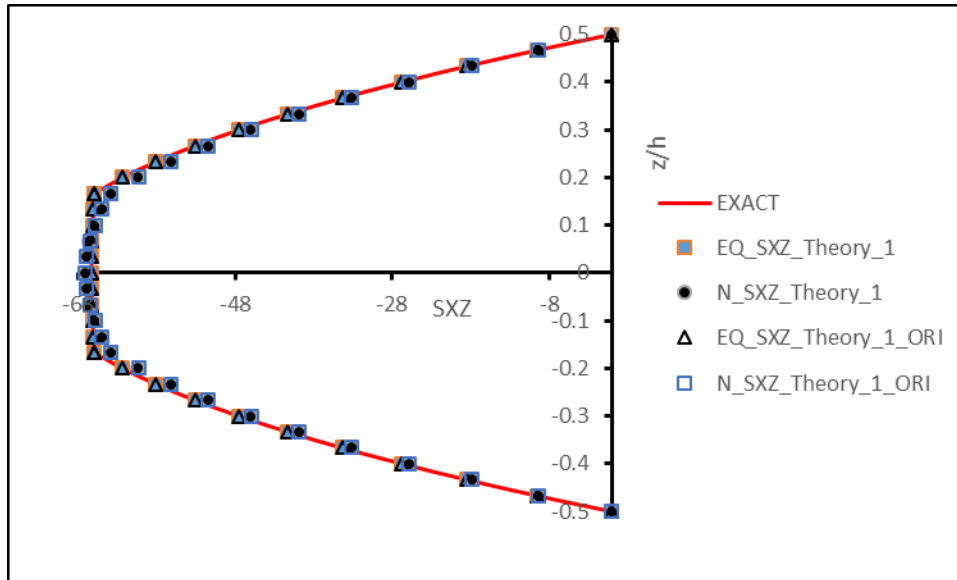
Distribution of Transverse Shear stress
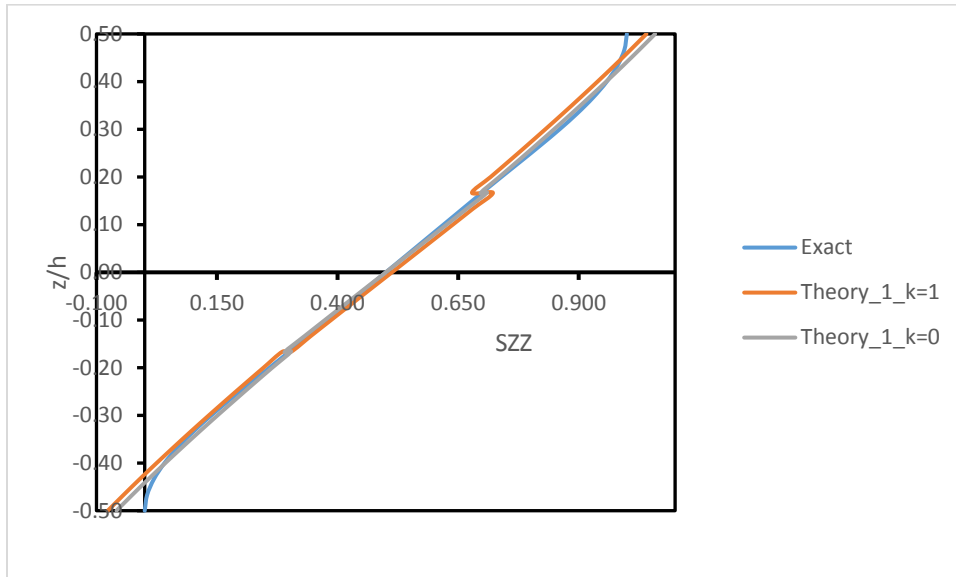
Aspect ratio=5
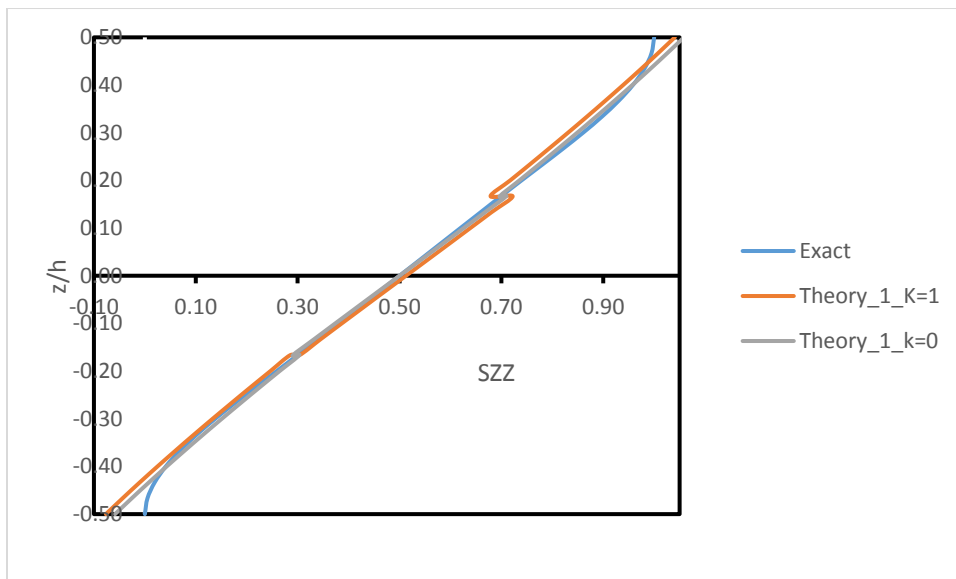

Aspect ratio=10

Aspect ratio=150

The transverse shear stress is computed based on Equivalent Single Layer Theory concept. Constitutive law is not used to compute it. The shear stress continuity condition is not imposed in the formulation a priori. No additional computation effort is required to estimate the stress distribution. The efficiency of the theory is excellent for thin and moderately thick beams and for thick beams, the values of the stress are very accurate (about 4%) at the interfaces.

Results for a simply supported three layered (0/90/0) beam
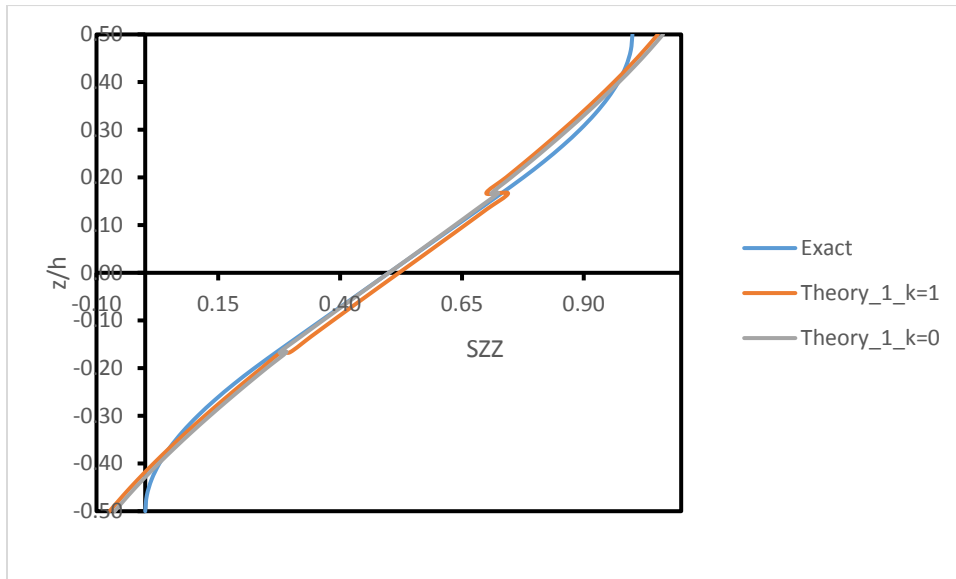## Distribution of Transverse Normal stress

Aspect Ratio=5

Aspect Ratio=10

Aspect Ratio=150

The transverse normal stress is computed based on Equivalent Single Layer Theory concept using constitutive law. The normal stress continuity condition is not imposed in the formulation a priori. The efficiency of the theory is excellent for thin and thick beams and the values of the stress are very accurate (about 6%).