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In the theory of moderately large deflection of plates, the out-of-plate shear strains as well as the through-thickness strain is not zero. Therefore, an assumption "plane remains plane," expressed by Eq. (14), does not mean that "normal remains normal."

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stresses, a beam can carry a distributed load of: MAE456 Finite Element Analysis 14 Large Displacements and Membrane Forces • A similar situation arises with plates, however basic plate elements are not set up to handle " membrane " forces. • If w/t is large (e.g., greater than 0.1), a non-linear analysis must be performed using

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wmax yields zero ...

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6 STRESSES IN PLATES A~J) SHELLS. curvature in which $1/$ and 1 represent perpendicular directions at a point on the midsurface. The principal or maximum and minimum curvatures are indicated by $1(1$ and $1''2'$ The planes associated with these curvatures are called the principal planes of curvature.

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Introduction to the Theory of Plates

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