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Plates and Shells

The stress and moment resultants provide convenient force quantities for the analysis of plates, just as moment, shear, and net tensile force are convenient in the analysis of beams.

Stresses In Plates And Shells by Ansel C. Ugural
6 STRESSES IN PLATES A~J)
SHELLS. curvature in which

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ρ_1 and ρ_2 represent perpendicular directions at a point on the midsurface. The principal or maximum and minimum curvatures are indicated by ρ_1 and ρ_2 . The planes associated with these curvatures are called the principal planes of curvature.

Plates and Shells

Equilibrium equations for plates and shells involve functions of stresses, that is, the forces and moments per unit width of the cross section (they are called stress resultants and stress couples, respectively). Plates and Shells 3 their moments with

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respect to the middle surface through the thickness.

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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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numerical, mechanics of materials, and theory of elasticity methods of analysis, it provides an in-depth and complete coverage of the subject, not explored by other texts. Its flexible organization allows instructors to more easily pick and choose topics they want to cover,...

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- If w/t is large (e.g., greater than 0.1), a non-linear analysis must be performed using

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It provides comprehensive coverage of both plates and

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shells and a unique blend of modern analytical and computer-oriented numerical methods in presenting stress analysis in a realistic setting. Distinguished by its broad range of exceptional visual interpretations of the solutions, applications, and means by which loads are carried in beams, plates and shells.

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Supplementary Readings

Reference Text. Ugural, A.

C. Stresses in Plates and

Shells. 2nd ed. New York,

NY: McGraw-Hill, 1998. ISBN:

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supported edges simply
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resultants subjected
substituting Eqs symmetry
Table tanh temperature
tensile thickness thin
plates tions values w_{max}
yields zero ...

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Thin-walled structures in the form of plates and shells are encountered in many branches of technology, such as civil, mechanical, aeronautical, marine, and chemical engineering. Such a widespread use of plate and shell structures arises from their intrinsic properties. When suitably designed, even very thin plates, and especially

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