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“classical” theory of plates is applicable to very thin and moderately thin plates, while “higher order theories” for thick plates are useful. For the very thick plates, however, it becomes more difficult and less useful to view the structural element as a plate - a description based on the three-dimensional theory of elasticity is required.

Introduction to the Theory of Plates

What differentiates the elastic and plastic theory of structures is the constitutive behavior. The other two groups of equations ie, the equations of equilibrium, Eq.(252 and 253 of Part I), and the strain-displacement relations remain the same. This chapter focuses on the development of constitutive equations for plates

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ories of thin elastic plates and shells of an arbitrary geometry are developed by using the basic classical assumptions. Deriving the general relationships and

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equations of the linear shell theory requires some familiarity with topics of advanced mathematics, including vector calculus, theory of differential equations, and theory of surfaces.

Thin Plates and Shells - Semantic Scholar

Hi, in the Timoshenko's book "Theory of elastic stability" one can find a case of simply supported rectangular plate uniformly compressed in one direction (compressive load is applied to shorter edges).

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