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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.

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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 **2.081J/16.230J Plates and - MIT OpenCourseWare** Plates and Shells: Theory and Analysis, Fourth Edition

(Applied and Computational Mechanics) [Ansel C. Ugural] on Amazon.com. *FREE* shipping on qualifying offers. Noted for its practical, accessible approach to senior and graduate-level engineering mechanics, Plates and Shells: Theory and Analysis is a long-time bestselling text on the subjects of elasticity and stress analysis.

Stresses in Beams, Plates, and Shells. The

more advanced concepts in elasticity and stress are analyzed and introduced gradually, accompanied by even more examples and engineering applications in addition to numerous illustrations. Chapter problems are carefully arranged from the basic to the more challenging. *Thin Plates and Shells - Semantic Scholar*

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 respect to the middle surface through the thickness. **Plates and Shells: Theory and Analysis,**

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assumption "plane remains plane," expressed by Eq. (14), does not mean that "normal remains normal."
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6 STRESSES IN PLATES AND SHELLS.
A~J) SHELLS.
curvature in which $1/\rho$ and $1/\rho$ represent perpendicular directions at a point on the midsurface. The principal or maximum and minimum curvatures are indicated

by $1/\rho_1$ and $1/\rho_2$. The planes associated with these curvatures are called the principal planes of curvature.
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