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contents: strength of materials . chapter 01: introduction to mechanics of deformable bodies. chapter 02: axial force, shear and bending moment. chapter 03: stress. chapter 04: strain. chapter 05: stress and strain relations. chapter 06: stress and strain properties at a point

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SOLVED PROBLEMS IN BEARING STRESS. Problem 125 In Fig. 1-12, assume that a 20-mm-diameter rivet joins the plates that are each 110 mm wide. The allowable stresses are 120 MPa for

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bearing in the plate material and 60 MPa for shearing of rivet. Determine (a) the minimum thickness of each plate; and (b) the largest average tensile stress in the plates.

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FE Review Mechanics of Materials 36 3. The cylindrical steel tank shown is 3.5 m in diameter, 5 m high, and filled with a brine solution. Brine has a density of 1198 kg/m^3 . The thickness of the steel shell is 12.5 mm. Neglect the weight of the tank. 5m What is the approximate hoop stress in the s
...

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There is also an axial stress of 5000 psi acting on the cross-section making the total stress become. Problem #6: Torsional stresses. The maximum torsional shear stress is: Form Problem

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3, the normal stress on the surface is 15600 psi.

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strength of material. Contents: Introduction. Free body diagram – Revisited. Normal, shear and bearing stress. Stress on inclined planes under axial loading. Strain. Mechanical properties of materials.

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Strength of materials - Wikipedia

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The tensile stress in the outer fiber of such a beam is. $Z M I M$ y_m . $\sigma = \frac{M y_m}{I}$ where y_m is the perpendicular distance from the neutral axis to the outer surface of the beam. If this stress reaches the yield strength σ_y of the material of the beam, small zones of plasticity appear at the surface (top diagram, facing page).

Useful solutions for standard problems

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