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Strength of Materials 4th Edition by Pytel and Singer Problem 115 page 16 Given: Required diameter of hole = 20 mm Thickness. Required: a. Maximum thickness of plate to punch a 2.5 inches diameter hole b. Diameter of smallest hole if the plate is 0.25 inch thick Solution 116 a. Maximum thickness of plate: Based on puncher strength:...

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Strength terms. Yield strength is the lowest stress that produces a permanent deformation in a material. In some materials, like aluminium alloys, the point of yielding is difficult to identify, thus it is usually defined as the stress required to cause 0.2% plastic strain. This is called a 0.2% proof stress.

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Strength of Materials, 4th Edition [Solutions Manual] - Singer, Pytel. If the force is going to pull the material, the stress is said to be tensile stress and compressive stress develops when the material is being compressed by two opposing forces. Shear stress is developed if the applied force is parallel to the resisting area.

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Problem 116 As in Fig. 1-11c, a hole is to be punched out of a plate having a shearing strength of 40 ksi. The compressive stress in the punch is limited to 50 ksi. (a) Compute the maximum thickness of plate in which a hole 2.5 inches in diameter can be punched.

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Strength of Materials 4th Edition by Pytel and Singer Problem 115 page 16 . Given. Required diameter of hole = 20 mm Thickne: ss of plate = 25 mm Shear strength of plate = 350 MN/m. 2. Required: Force required to punch a 20-mm-diameter hole. Solution 115. The resisting area is the shaded area along the perimeter and the shear force . is equal to the punching force .

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