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Strength of Materials (also known as Mechanics of Materials) is the study of the internal effect of external forces applied to structural member. Stress, strain, deformation deflection, torsion, flexure, shear diagram, and moment diagram are some of the topics covered by this subject.

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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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Problem #8. The torque is divided according to torsional stiffnesses. In this case the left supports picks up  $(6/10)=0.6$  of the torque and the right support takes 0.4 of the torque. Problem #9. The stress is. Finding the centroid is as before: The area moment of inertia is:  $Q$  is. and. Problem #10. Problem #11. For this thin-walled tube: The ...

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