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Solved Problems: Civil - Strength of Materials - Indeterminate Beams. Civil - Strength of Materials - Indeterminate Beams. A fixed beam AB of length 6m carries point load of 160 kN and 120 kN at a distance of 2m and 4m from the left end A. Find the fixed end moments and the reactions at the supports. Draw B.M and S.F diagrams.

Solved Problems: Civil - Strength of Materials ...
Solved Problems: Strength of Materials - Torsion. Mechanical - Strength of Materials - Torsion. 1.A metal bar of 10mm dia when subjected to a pull of 23.55KN gave and elongation of 0.3mm on a gauge length of 200mm. In a torsion test maximum shear stress of 40.71N/mm2 was measured on a bar of 50mm dia. The angle of twist measured over a length of 300mm being 0°21'.

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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 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 ...

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When unrestrained, most engineering materials expand when heated and contract when cooled Coefficient of thermal expansion (CTE) – = thermal strain due to a one degree (1o) change in temperature – is a material property (and it may depend on T) Thermal strain Total strain Please follow example problems 4-11 and 4-12 T T T T E

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Problem #8. The torque is divided according to torsional stiffnesses. In this case the left supports picks us (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 ...

ME 437 – Strength of Materials Solutions
Strength of Materials, also called The Mechanics of Materials or Solid Mechanics, provides the basis for the design of the components that make up machines and load-bearing structures. In Statics, the forces and moments acting at various points in a structural component or at points of contact with other structures were determined.