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subjects home. contents chapter previous next prep find. 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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Strength of Materials Problems and Solutions

The knowledge of this subject is a must in Civil Engineering, Mechanical Engineering, Materials Engineering, Electrical Engineering, etc. Select a topic below for solved problems in Mechanics and Strength of Materials.

Strength of Materials | MATHalino

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

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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'.

Solved Problems: Strength of Materials - Torsion

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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area shown in Figure 1. The maximum tensile strength is 500 lb/in² (pounds per inches squared). The maximum compressive strength is 5,000 lb/in². Use the following equations to complete the problem. Show your work and calculations.

cross-sectional area = (B) x (L)

maximum tensile force = (maximum tensile strength) x (cross-sectional area)

maximum compressive force = (maximum compressive strength) x (cross-sectional area)

Strength of Materials Math Worksheet Answers

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10500 psi, tensile psi xy psi principal
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modelling establishes whether the concept will work at all, and identifies the combination of material properties that maximize performance. At

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