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## Solution to Problem 104 Normal Stress | MATHalino

Strength of Materials is an important subject to understand the behavior of objects under stress. It has numerous applications in the field of construction engineering. In this tutorial, the tutor explains different types of stresses and strains acting on various construction materials.

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Strength of Materials > Chapter 01 - Simple Stresses > Normal Stresses > Solution to Problem 104 Normal Stress. Problem 104 A hollow steel tube with an inside diameter of 100 mm must carry a tensile load of 400 kN.

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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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Strength / Mechanics of Material Menu. Strength of materials, also called mechanics of materials, is a subject which deals with the behavior of solid objects subject to stresses and strains .. In materials science, the strength of a material is its ability to withstand an

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applied load without failure.

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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.

### **Shear Stress | MATHalino**

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.

### **Strength of materials - Wikipedia**

Strength of Materials Solutions. Problem #1. Principal stresses: Substitute values from above yields: The maximum shear stress is determined by these two principal stresses as: Note that the other maximum shear stresses are less than this value. Problem #2. The total strain is: This total strain is equal to:

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Use  $E=200$  GPa for the hangers material. Problem 2: A clevis fastener with a 1/2 inch pin is used in a shop lifting machine. If the pin is made of A36 steel determine the maximum safe load, using a safety factor of 2.5 based on the yield strength. Problem 3: ...

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