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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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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:

ME 437 – Strength of Materials Solutions

Strength of Materials also called Mechanics of materials is a subject which deals with the behaviour of solid objects subject to stresses and strains. The study of strength of materials often refers to various methods of calculating the stresses and strains in structural members, such as beams, columns and shafts. It is ability to withstand an applied load strength of materials relies on the experience as well as theory and is a scientific in development.

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Introduction and Review; Analysis of stresses; Analysis of stresses; Material subjected to combined direct and shear stresses; ... Illustrative problems; Web Content

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i Table of Contents Table of Contents.....i

1000 Solved Problems

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