

# Strength Of Materials Solution

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Strength of material is branch of mechanics that concerns with study of the forces and its effect on the properties of the deformed body. It is concerned with the internal forces and associated changes in the geometry of the components. Particular objective of SOM is that whether

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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

Answer- A. The necessary condition for forces to be in equilibrium is that these should be. (A) Coplanar. (B) Meet at one point. (C) Both (A) and (B) above. (D) All be equal. Answer- C. Follow below link to download- 300 Plus Strength Of Materials Questions and Answers PDF. Download PDF.

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**Strength Of Materials Solutions.** Problem #1  $\sigma_x = 10500$  psi , Tensile  $\sigma_y = 25500$  psi  $\tau_{xy} = 4000$  psi  $\tau_{33} = 0$  Principal stresses:  $\sigma_1, \sigma_2 = \frac{\sigma_x + \sigma_y}{2} \pm \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}$  Substitute values from above yields:  $\sigma_1 = 11444$  psi  $\sigma_2 = -6444$  psi The maximum shear stress is determined by these two principal stresses as:  $\tau_{max} = \frac{\sigma_1 - \sigma_2}{2}$

author to better fit the outline of the introductory Strength of Materials (Solid Mechanics) course, and to better fit the presentation of material in most introductory textbooks on the subject. In addition, the following changes have been made: 1. Problem solutions and Supplementary Problems are presented using the metric SI units only. 2.

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– A stress level beyond which the material would demonstrate high strain for a small stress (perform like a plastic) B= Yield strength (point B in fig. b) – Stress that will induce permanent set (an offset to the original length) – In fig. b, line OC = the offset, line BC is parallel to OA Ultimate strength (see in fig. a)

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