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About Strength of Materials. 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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Strength of Materials Solutions. 6(2)  $\tau = \text{psi}$  Problem #11 For this thin-walled tube:  $\tau = T / 200 \cdot 1000 = 34$ . The tangential stress is:  $\tau = P / \pi r_i^2 - P_o / r_o^2 - r_i^2 / r_o^2 \cdot \sigma_i / r \cdot \sigma_o = 2 / 2 \cdot r_o - r_i$  Setting  $r = r_i$  and  $P_o = 0$  we get  $.6 \text{ Mpa}$  At  $2(38 \cdot 38) / 2$  The angle of rotation is:  $TSL / 200 \cdot 1000 \cdot \dots$

#### Solution of Strength of Materials Problems | Strength Of ...

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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contains one or more than one material property: Young's modulus,  $E$ , and Poisson's ratio,  $\nu$ , are the material properties that enter the constitutive equation for linear-elastic deformation; the yield strength,  $\sigma_y$ , is the material property that enters the consti-

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Solution 403. In segment AB, the shear is uniformly distributed over the segment at a magnitude of -30 kN. In segment BC, the shear is uniformly distributed at a magnitude of 26 kN. In segment CD, the shear is uniformly distributed at a magnitude of -24 kN. The equation  $M_{AB} = -30x$  is linear, at  $x = 0$ ,  $M_{AB} = 0$  and at  $x = 1 \text{ m}$ ,  $M_{AB} = -30 \text{ kN}\cdot\text{m}$ .

#### Solution to Problem 403 | Shear and Moment Diagrams ...

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

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