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Solutions Manual Mechanics of Materials: An

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## Integrated ...

Mechanics of materials is a branch of mechanics that studies the internal effects of stress and strain in a solid body that is subjected to an external loading. Stress is associated with the strength of the material from which the body is made, while strain is a measure of the deformation of the body.

### **Mechanics of Materials: An Integrated Learning System, 4th ...**

77 MECHANICS OF MATERIALS When the thickness of the cylinder wall is about one-tenth or less of inside radius, the cylinder can be considered as thin-walled. In which case, the internal pressure is resisted by the hoop stress and the axial stress.  $t = \frac{Pr}{\sigma}$  and  $a = \frac{Pr}{\sigma}$  where  $t$  = wall thickness and  $r$  = radius. STRESS AND STRAIN Principal ...

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P2.2 Solution (a) From the normal strain in rod (2) and its length, the deformation of rod (2) can be calculated:  $(1,080 \text{ in.})(75 \text{ in.}) = 0.0810 \text{ in.}$  Since rod (2) is assumed to be connected to the rigid bar with a perfect connection, the rigid bar must move downward an amount equal to the deformation of rod therefore,  $v_B = 0.0810 \text{ in.}$  (downward) By symmetry, the rigid bar must remain horizontal as it moves downward, and thus,  $v_B = v_C$ .

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