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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: $(1,080 \cdot 10^{-6})(75 \text{ in.}) = 0.0810 \text{ in.}$ 2 2 L2 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, $v_B = 0.0810 \text{ in. (downward)}$ 2 symmetry, the rigid bar must remain horizontal as it moves downward, and thus, $v_B = v_A = v_C$.

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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. $\sigma_{\theta} = \frac{Pr}{t}$ and $\sigma_x = \frac{Pr}{2t}$ where t = wall thickness and r = inside radius. STRESS AND STRAIN Principal ...

MECHANICS OF MATERIALS

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Mechanics of materials : an integrated learning system ...

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.

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