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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:  $(1,080 \cdot 10^{-6})(75 \text{ in.}) = 0.0810 \text{ in.}$  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 (2) 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.  $t$   $P_r$   $P_r$   $2$   $v$   $t$   $=$   $=$   $i$  and  $a$  where  $t$  = wall thickness and  $r$   $r$   $2$  =  $i$   $o$  +. STRESS AND STRAIN Principal ...

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