

This deformation creates a strain in rod (1) of:

$$\epsilon_1 = \frac{\delta_1}{L_1} = \frac{0.00075 \text{ in.}}{1.50 \text{ in.}} = 0.00050027 \text{ in./in.} = \boxed{500.27 \mu\text{in./in.}}$$

Ans.

(c) The gap is now at joint B. We know the strain in rod (2), hence, we know the deformation must be 0.0030 in. However, the first 0.75 in. of downward movement by the right bar does not elongate the rod—it simply closes the gap. To elongate rod (2) by 0.0030 in., joint B must move down:

$$\begin{aligned} \delta_2 - \delta_1 &= 0.0030 \text{ in.} \\ &= 0.0030 \text{ in.} + 0.00425 \text{ in.} \\ &= 0.00725 \text{ in.} \end{aligned}$$

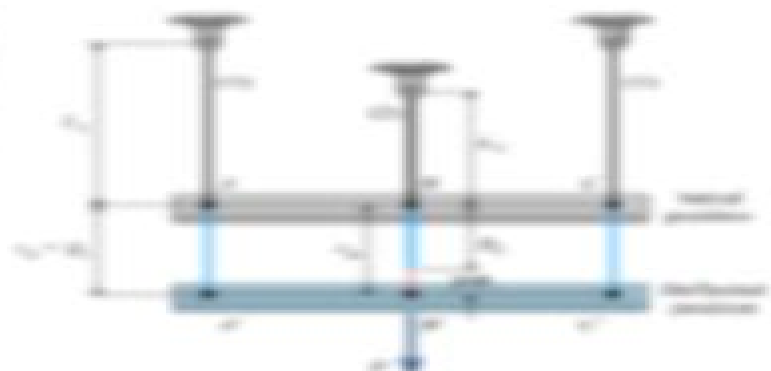
Again, since the right bar remains horizontal,  $\delta_2 = \delta_3 = \delta_1$ . The joints at A and C are assumed to be perfectly fixed.

$$\delta_2 = \delta_3 = 0.00725 \text{ in.}$$

and the normal strain in rod (2) is:

$$\epsilon_2 = \frac{\delta_2}{L_2} = \frac{0.00725 \text{ in.}}{1.50 \text{ in.}} = 0.0048333 \text{ in./in.} = \boxed{483.33 \mu\text{in./in.}}$$

Ans.



# Mechanics Of Materials 2e Philpot Solutions Manual

**Madhukar Vable**



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*Mechanics of Materials* Timothy A. Philpot, 2008-01-18 Integrated throughout the text MecMovies instructional software gives you extensive hands on practice as you cover everything from stress and strain to bending torsion transverse shear and combined loads This award winning collection of animations tutorials games and examples have been proven to increase students performance visualization skills confidence level in solving problems and interest in the subject matter

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