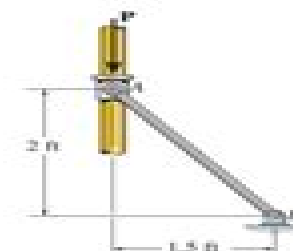


4-18. Collar *A* can slide freely along the smooth vertical guide. If the supporting rod *AB* is made of 304 stainless steel and has a diameter of 0.75 in., determine the vertical displacement of the collar when $P = 10$ kip.



Internal Loading: The normal force developed in rod *AB* can be determined by considering the equilibrium of collar *A* with reference to its free-body diagram, Fig. *a*.

$$+\uparrow \Sigma F_y = 0; \quad -F_{AB}\left(\frac{4}{5}\right) - 10 = 0 \quad F_{AB} = -12.5 \text{ kip}$$

Displacements: The cross-sectional area of rod *AB* is

$$A_{AB} = \frac{\pi}{4}(0.75^2) = 0.4418 \text{ in}^2, \text{ and the initial length of rod } AB \text{ is}$$

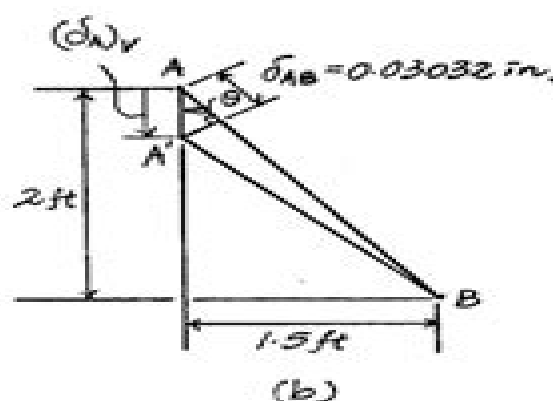
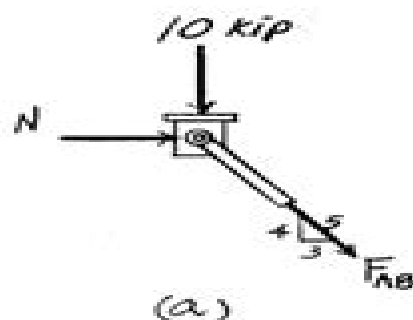
$$L_{AB} = \sqrt{2^2 + 1.5^2} = 2.5 \text{ ft. The axial deformation of rod } AB \text{ is}$$

$$\delta_{AB} = \frac{F_{AB} L_{AB}}{A_{AB} E_A} = \frac{-12.5(2.5)(12)}{0.4418(28)(10^3)} = -0.03032 \text{ in.}$$

The negative sign indicates that end *A* moves towards *B*. From the geometry shown in Fig. *b*, we obtain $\theta = \tan^{-1}\left(\frac{1.5}{2}\right) = 36.87^\circ$. Thus,

$$(\delta_A)_V = \frac{\delta_{AB}}{\cos \theta} = \frac{0.03032}{\cos 36.87^\circ} = 0.0379 \text{ in.} \quad \downarrow$$

Ans.



Ans:

$$(\delta_A)_V = 0.0379 \text{ in.}$$

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