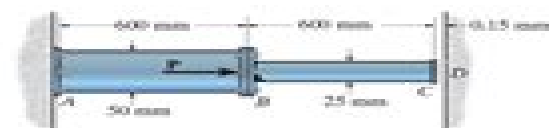


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4-46. If the gap between C and the rigid wall at D is initially 0.15 mm, determine the support reactions at A and D when the force $P = 200$ kN is applied. The assembly is made of A36 steel.



Equation of Equilibrium: Referring to the free-body diagram of the assembly shown in Fig. a,

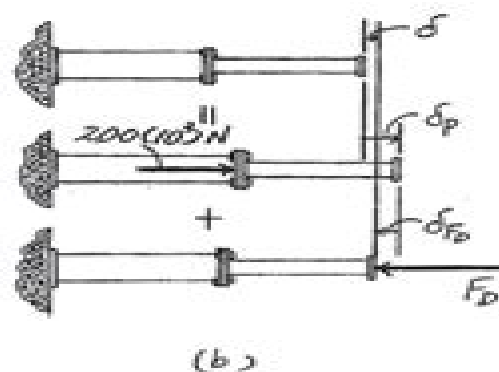
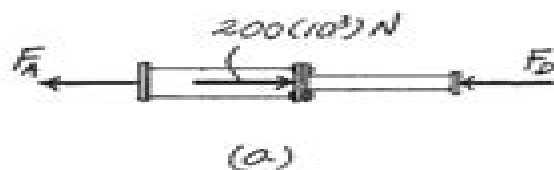
$$\rightarrow \Sigma F_x = 0; \quad 200(10^3) - F_D - F_A = 0 \quad (1)$$

Compatibility Equation: Using the method of superposition, Fig. b,

$$\begin{aligned} (\rightarrow) \quad \delta &= \delta_P + \delta_{F_D} \\ 0.15 &= \frac{200(10^3)(600)}{\frac{\pi}{4}(0.05^2)(200)(10^6)} + \left[\frac{F_D(600)}{\frac{\pi}{4}(0.05^2)(200)(10^6)} + \frac{F_D(600)}{\frac{\pi}{4}(0.025^2)(200)(10^6)} \right] \\ F_D &= 20,365.05 \text{ N} = 20.4 \text{ kN} \quad \text{Ans.} \end{aligned}$$

Substituting this result into Eq. (1),

$$F_A = 179,634.95 \text{ N} = 180 \text{ kN} \quad \text{Ans.}$$



Solution Manual Of Strength Of Materials

**Jack A. Collins, Henry R. Busby, George
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