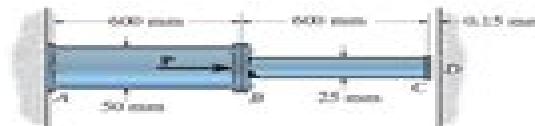


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4-86. If the gap between C and the rigid wall at D is initially 0.15 mm, determine the support reactions at A and D when the force  $P = 200 \text{ kN}$  is applied. The assembly is made of A36 steel.



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

$$\therefore \sum F_x = 0; \quad 200(10^3) - F_D - F_A = 0. \quad (1)$$

**Compatibility Equations:** Using the method of superposition, Fig. b,

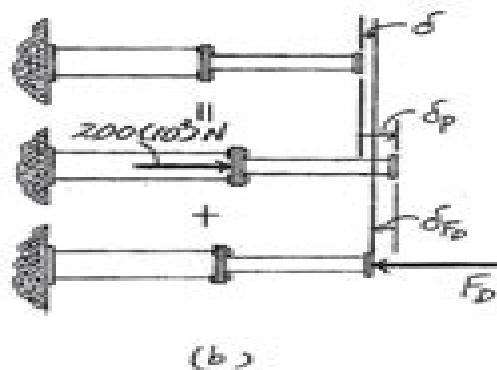
$$\begin{aligned} (\therefore) \quad \delta &= \delta_P - \delta_{F_D} \\ 0.15 &= \frac{200(10^3)(600)}{2(0.025^2)(200)(10^9)} - \left[ \frac{F_D(600)}{2(0.025^2)(200)(10^9)} + \frac{F_D(640)}{2(0.025^2)(200)(10^9)} \right] \\ F_D &= 20,365.05 \text{ N} = 20.4 \text{ kN} \quad \text{Ans.} \end{aligned}$$

Substituting this result into Eq. (1),

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



(a)



(b)

# Solution Manual Of Strength Of Materials

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