

Problem 2.2-10

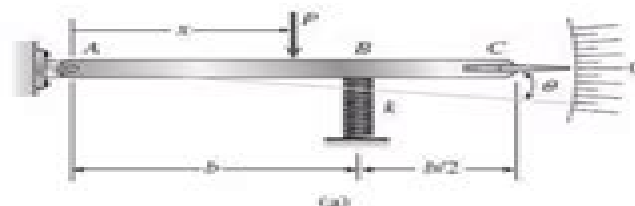
NUMERICAL DATA: $k = 950 \text{ N/m}$ $b = 165 \text{ mm}$ $P = 11 \text{ N}$ $\theta = 2.5^\circ$ $\theta_{\max} = 2^\circ$

$W_p = 3 \text{ N}$ $W_s = 2.75 \text{ N}$

- (a) If the load $P = 11 \text{ N}$, at what distance x should the load be placed so that the pointer will read $\theta = 2.5^\circ$ on the scale (see Fig. a)?

Sum moments about A, then solve for x :

$$x = \frac{k \theta b^2}{P} = 102.6 \text{ mm} \quad \boxed{x = 102.6 \text{ mm}}$$

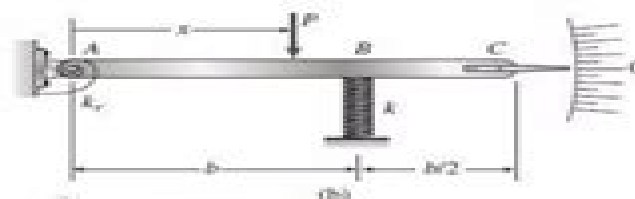


- (b) Repeat (a) if a rotational spring $k_r = kb^2$ is added at A (see Fig. b).

$$k_r = k b^2 = 25864 \text{ N}\cdot\text{mm}$$

Sum moments about A, then solve for x :

$$x = \frac{k \theta b^2 + k_r \theta}{P} = 205 \text{ mm} \quad \frac{x}{b} = 1.244 \quad \boxed{x = 205 \text{ mm}}$$



- (c) Now if $x = 7b/8$, what is $P_{\max}$ (N) if θ cannot exceed 2° ? $x = \frac{7}{8} b = 144.375 \text{ mm}$

Sum moments about A, then solve for P :
$$P_{\max} = \frac{k \theta_{\max} b^2 + k_r \theta_{\max}}{\frac{7}{8} b} = 12.51 \text{ N} \quad \boxed{P_{\max} = 12.51 \text{ N}}$$

- (d) Now, if the weight of the pointer ABC is known to be $W_p = 3 \text{ N}$ and the weight of the spring is $W_s = 2.75 \text{ N}$, what initial angular position (i.e., θ in degrees) of the pointer will result in a zero reading on the angular scale once the pointer is released from rest? Assume $P = k_r = 0$.

Deflection at spring due to W_p :

$$\delta_{sp} = \frac{W_p \left(\frac{3}{4} b \right)}{k b} = 2.368 \text{ mm}$$

Deflection at B due to self weight of spring:

$$\delta_{st} = \frac{W_s}{2k} = 1.447 \text{ mm}$$

$$\delta_B = \delta_{sp} + \delta_{st} = 3.816 \text{ mm} \quad \theta_{ini} = \frac{\delta_B}{b} = 1.325^\circ$$

$$\text{OR} \quad \theta_{ini} = \arctan \left(\frac{\delta_B}{b} \right) = 1.325^\circ \quad \boxed{\theta_{ini} = 1.325^\circ}$$

Mechanics Of Materials Goodno Solutions

R. C. Hibbeler



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