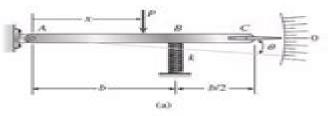
Problem 2.2-10

Numerical exts.
$$k = 950 \text{ N/m}$$
 $b = 165 \text{ mm}$ $P = 11 \text{ N}$ $\theta = 2.5^{\circ}$ $\theta_{\text{max}} = 2^{\circ}$
 $W_{o} = 3 \text{ N}$ $W_{o} = 2.75 \text{ N}$

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

Sum moments about A, then solve for x:

$$x = \frac{k\theta \delta^2}{P} = 102.6 \text{ mm} \quad [x = 102.6 \text{ mm}]$$



(b) Repeat (a) if a rotational spring $k_r = kb^2$ is added at A (see Fig. 50.

$$k_r = k h^2 = 25864 \text{ N·mm}$$

Sum moments about A, then solve for x:

$$x = \frac{k\theta b^2 + k_e \theta}{P} = 205 \text{ mm} \quad \frac{x}{b} = 1.244 \quad [x = 205 \text{ mm}]$$



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

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

$$P_{\rm max} = 12.51\,\mathrm{N}$$

(d) Now, if the weight of the pointer ABC is known to be W_p = 3 N and the weight of the spring is W_s = 2.75 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 :

Deflection at B due to self weight of spring:

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

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

$$\delta_B = \delta_{Bp} + \delta_{Bk} = 3.816 \text{ mm}$$

$$\theta_{init} = \frac{\delta_B}{b} = 1.325^{\circ}$$

OR
$$\theta_{\text{min}} = \arctan\left(\frac{\delta_B}{\hbar}\right) = 1.325^{\circ} \left[\theta_{\text{min}} = 1.325^{\circ}\right]$$

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David Kirk

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