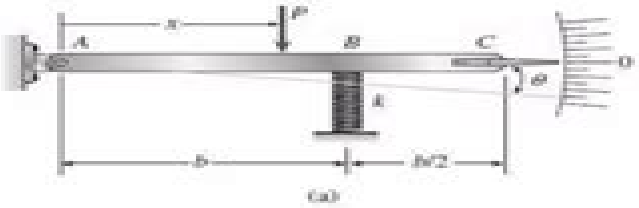
Problem 2.2-10

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

$W_p = 3$ N $W_s = 2.75$ N

(a) If the load $P = 11$ N, at what distance x should the load be placed so that the pointer will read $\theta = 2.5°$ on the scale (see Fig. a)?
Sum moments about A, then solve for x:

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



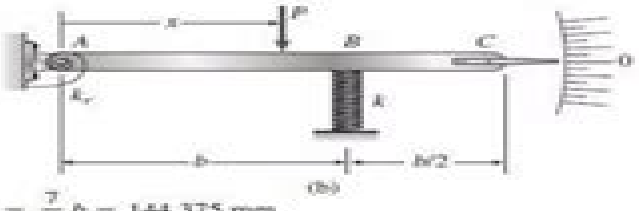
(a)

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

$k_r = k\,b^2 = 25864$ N·mm

Sum moments about A, then solve for x:

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



(b)

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

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

(d) Now, if the weight of the pointer $A\&C$ 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:

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

Deflection at B due to self weight of spring:

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

$$\delta_B = \delta_{Bp} + \delta_{Bs} = 3.816 \text{ mm} \qquad \theta_{min} = \frac{\delta_B}{b} = 1.325°$$

OR $\theta_{min} = \arctan\left(\frac{\delta_B}{b}\right) = 1.325°$ $\quad \boxed{\theta_{min} = 1.325°}$

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