

Chapter 4

- 4-1** For a torsion bar, $k_T = T/\theta = Fl/\theta$, and so $\theta = Fl/k_T$. For a cantilever, $k_L = F/\delta$, $\delta = F/k_L$. For the assembly, $k = F/y$, or, $y = F/k = l\theta + \delta$. Thus

$$y = \frac{F}{k} = \frac{Fl^2}{k_T} + \frac{F}{k_L}$$

Solving for k

$$k = \frac{1}{\frac{l^2}{k_T} + \frac{1}{k_L}} = \frac{k_T k_L}{k_T l^2 + k_L} \quad \text{Ans.}$$

- 4-2** For a torsion bar, $k_T = T/\theta = Fl/\theta$, and so $\theta = Fl/k_T$. For each cantilever, $k_L = F/\delta_L$, $\delta_L = F/k_L$, and, $\delta_L = F/k_L$. For the assembly, $k = F/y$, or, $y = F/k = l\theta + \delta_L + \delta_L$. Thus

$$y = \frac{F}{k} = \frac{Fl^2}{k_T} + \frac{F}{k_L} + \frac{F}{k_L}$$

Solving for k

$$k = \frac{1}{\frac{l^2}{k_T} + \frac{1}{k_L} + \frac{1}{k_L}} = \frac{k_T k_L k_L}{k_T k_L l^2 + k_T k_L + k_T k_L} \quad \text{Ans.}$$

- 4-3 (a)** For a torsion bar, $k = T/\theta = GJ/l$.

Two springs in parallel, with $J = \pi d^4/32$, and $d_1 = d_2 = d$,

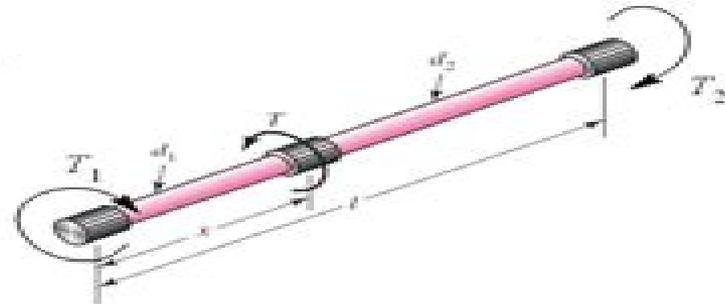
$$\begin{aligned} k &= \frac{J_1 G}{x} + \frac{J_2 G}{l-x} = \frac{\pi}{32} G \left(\frac{d_1^4}{x} + \frac{d_2^4}{l-x} \right) \\ &= \frac{\pi}{32} G d^4 \left(\frac{1}{x} + \frac{1}{l-x} \right) \quad \text{Ans. (1)} \end{aligned}$$

Deflection equation,

$$\theta = \frac{T_1 x}{JG} = \frac{T_2 (l-x)}{JG}$$

results in $T_1 = \frac{T_2 (l-x)}{x}$ (2)

From statics, $T_1 + T_2 = T = 1500$. Substitute Eq. (2)



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