

## 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  $J = \pi d_i^4/32$ , and  $d_1 = d_2 = d$ ,

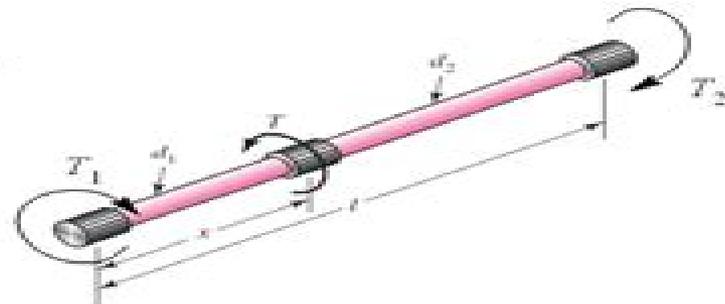
$$\begin{aligned} k &= \frac{J_1 G}{x} + \frac{J_2 G}{l-x} = \frac{\pi}{32} G \left( \frac{d_1^4}{x} + \frac{d_2^4}{l-x} \right) \\ &= \frac{\pi}{32} G d^4 \left( \frac{1}{x} + \frac{1}{l-x} \right) \quad \text{Ans. (1)} \end{aligned}$$

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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