

$$T_2 \left( \frac{l-x}{x} \right) + T_2 = 1500 \Rightarrow T_2 = 1500 \frac{x}{l} \quad \text{Ans.} \quad (3)$$

$$\text{Substitute into Eq. (2) resulting in} \quad T_1 = 1500 \frac{l-x}{l} \quad \text{Ans.} \quad (4)$$

$$\text{(b) From Eq. (1), } k = \frac{\pi}{32} (0.5^4) 11.5 (10^6) \left( \frac{1}{5} + \frac{1}{10-5} \right) = 28.2 (10^3) \text{ lbf} \cdot \text{in/rad} \quad \text{Ans.}$$

$$\text{From Eq. (4), } T_1 = 1500 \frac{10-5}{10} = 750 \text{ lbf} \cdot \text{in} \quad \text{Ans.}$$

$$\text{From Eq. (3), } T_2 = 1500 \frac{5}{10} = 750 \text{ lbf} \cdot \text{in} \quad \text{Ans.}$$

$$\text{From either section, } \tau = \frac{16T_1}{\pi d_1^3} = \frac{16(1500)}{\pi (0.5^3)} = 30.6 (10^3) \text{ psi} = 30.6 \text{ kpsi} \quad \text{Ans.}$$

- 4-4** Deflection to be the same as Prob. 4-3 where  $T_1 = 750 \text{ lbf} \cdot \text{in}$ ,  $l_1 = l / 2 = 5 \text{ in}$ , and  $d_1 = 0.5 \text{ in}$

$$\theta_1 = \theta_2 = \theta$$

$$\frac{T_1 (4)}{\frac{\pi}{32} d_1^4 G} = \frac{T_2 (6)}{\frac{\pi}{32} d_2^4 G} = \frac{750(5)}{\frac{\pi}{32} (0.5^4) G} \Rightarrow \frac{4T_1}{d_1^4} = \frac{6T_2}{d_2^4} = 60 (10^3) \quad (1)$$

$$\text{Or,} \quad T_1 = 15 (10^3) d_1^4 \quad (2)$$

$$T_2 = 10 (10^3) d_2^4 \quad (3)$$

$$\text{Equal stress, } \tau_1 = \tau_2 \Rightarrow \frac{16T_1}{\pi d_1^3} = \frac{16T_2}{\pi d_2^3} \Rightarrow \frac{T_1}{d_1^3} = \frac{T_2}{d_2^3} \quad (4)$$

Divide Eq. (4) by the first two equations of Eq.(1) results in

$$\frac{\frac{T_1}{d_1^3}}{\frac{4T_1}{d_1^4}} = \frac{\frac{T_2}{d_2^3}}{\frac{6T_2}{d_2^4}} \Rightarrow d_2 = 1.5d_1 \quad (5)$$

$$\text{Statics, } T_1 + T_2 = 1500 \quad (6)$$

Substitute in Eqs. (2) and (3), with Eq. (5) gives

$$15 (10^3) d_1^4 + 10 (10^3) (1.5d_1)^4 = 1500$$

Solving for  $d_1$  and substituting it back into Eq. (5) gives  
 $d_1 = 0.388 \text{ 8 in, } d_2 = 0.583 \text{ 2 in} \quad \text{Ans.}$

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**Pir M. Toor, Joseph Barron**



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