

$$\delta_2 = \frac{Fl}{AE} = \frac{4Fl}{\pi d_1^2 E} = \frac{4(1000)(2)}{\pi(0.75^2)(30)(10^6)} = 1.51(10^{-4}) \text{ in.} \quad \text{Ans.}$$

- 4-6 (a) Let the radii of the straight sections be $r_1 = d_1/2$ and $r_2 = d_2/2$. Let the angle of the taper be α where $\tan \alpha = (r_2 - r_1)/l$. Thus, the radius in the taper as a function of x is $r = r_1 + x \tan \alpha$, and the polar second area moment is $J = (\pi/2)(r_1 + x \tan \alpha)^4$. The angular deflection of the tapered portion is

$$\begin{aligned} \theta &= \int_0^l \frac{T}{GJ} dx = \frac{2T}{\pi G} \int_0^l \frac{dx}{(r_1 + x \tan \alpha)^4} = -\frac{1}{3} \frac{2T}{\pi G} \frac{1}{(r_1 + x \tan \alpha)^3 \tan \alpha} \Bigg|_0^l \\ &= \frac{2}{3\pi} \frac{T}{G} \left[\frac{1}{r_1^3 \tan \alpha} - \frac{1}{\tan \alpha (r_1 + l \tan \alpha)^3} \right] = \frac{2}{3\pi} \frac{T}{G \tan \alpha} \left(\frac{1}{r_1^3} - \frac{1}{r_2^3} \right) \\ &= \frac{2}{3\pi} \frac{T}{G \tan \alpha} \frac{r_2^3 - r_1^3}{r_1^3 r_2^3} = \frac{2}{3\pi} \frac{T}{G} \left(\frac{l}{r_2 - r_1} \right) \frac{r_2^3 - r_1^3}{r_1^3 r_2^3} = \frac{2}{3\pi} \frac{Tl}{G} \frac{(r_2^2 + r_1 r_2 + r_1^2)}{r_1^3 r_2^3} \\ &= \frac{32}{3\pi} \frac{Tl}{G} \frac{(d_1^2 + d_1 d_2 + d_2^2)}{d_1^3 d_2^3} \quad \text{Ans.} \end{aligned}$$

- (b) The deflections, in degrees, are

Connection:

$$\theta = \frac{32}{3\pi} \frac{Tl}{G} \frac{(d_1^2 + d_1 d_2 + d_2^2)}{d_1^3 d_2^3} = \frac{32}{3\pi} \frac{(1000)(2)}{(83 \times 10^9)} \frac{(0.75^2 + 0.75(0.5) + 0.5^2)}{(0.75^3)(0.5^3)} = 0.000151 \text{ rad} = 0.00863^\circ$$

Ends of straight sections:

$$\theta = \frac{2}{3\pi} \frac{Tl}{G \tan \alpha} \left(\frac{1}{r_1^3} - \frac{1}{r_2^3} \right)$$

$$= \frac{2}{3\pi} \frac{(1000)(2)}{(83 \times 10^9) \tan 1.107^\circ} \left(\frac{1}{(0.375)^3} - \frac{1}{(0.25)^3} \right) = 0.000151 \text{ rad} = 0.00863^\circ$$

End of taper:

$$\theta = \frac{32}{3\pi} \frac{Tl}{G} \frac{(d_1^2 + d_1 d_2 + d_2^2)}{d_1^3 d_2^3} = \frac{32}{3\pi} \frac{(1000)(2)}{(83 \times 10^9)} \frac{(0.75^2 + 0.75(0.5) + 0.5^2)}{(0.75^3)(0.5^3)} = 0.000151 \text{ rad} = 0.00863^\circ$$

ANSWER: $\theta = 0.00863^\circ$ (at connection), $\theta = 0.00863^\circ$ (at ends of straight sections), $\theta = 0.00863^\circ$ (at end of taper)

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