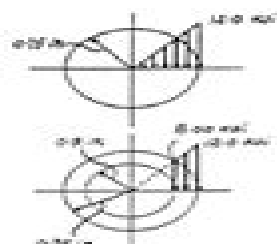


5-1. A shaft is made of a steel alloy having an allowable shear stress of $\tau_{allow} = 12 \text{ ksi}$. If the diameter of the shaft is 1.5 in., determine the maximum torque $\mathbf{T}$ that can be transmitted. What would be the maximum torque $\mathbf{T}^*$ if a 1-in.-diameter hole is bored through the shaft? Sketch the shear-stress distribution along a radial line in each case.



a) **Allowable Shear Stress :** Applying the torsion formula

$$\begin{aligned}\tau_{max} = \tau_{allow} &= \frac{T\rho}{J} \\ 12 &= \frac{T(0.75)}{\frac{\pi(0.75^4)}{2}} \\ T &= 7.95 \text{ kip} \cdot \text{in.} \quad \text{Ans}\end{aligned}$$



b) **Allowable Shear Stress :** Applying the torsion formula

$$\begin{aligned}\tau_{max} = \tau_{allow} &= \frac{T\rho}{J} \\ 12 &= \frac{T^*(0.75)}{\frac{\pi(0.75^4 - 0.5^4)}{2}} \\ T^* &= 6.381 \text{ kip} \cdot \text{in.} = 6.38 \text{ kip} \cdot \text{in.} \quad \text{Ans} \\ \tau_{\rho=0.5 \text{ in.}} &= \frac{T^*\rho}{J} = \frac{6.381(0.5)}{\frac{\pi(0.75^4 - 0.5^4)}{2}} = 8.00 \text{ ksi}\end{aligned}$$

5-2. The solid shaft of radius r is subjected to a torque $\mathbf{T}$. Determine the radius r' of the inner core of the shaft that resists one-half of the applied torque ($T/2$). Solve the problem two ways: (a) by using the torsion formula, (b) by finding the resultant of the shear-stress distribution.



$$\text{a) } \tau_{max} = \frac{T\rho}{J} = \frac{T\rho}{\frac{\pi\rho^4}{2}} = \frac{2T}{\pi\rho^3}$$

$$r = \frac{\sqrt[3]{2T\tau}}{\pi} = \frac{T}{\pi(r')^3}$$

$$\text{Since } r = \frac{r'}{2} \text{ then } \frac{T}{\pi(r')^3} = \frac{r'}{2} \left(\frac{2T}{\pi(r')^3} \right)$$

$$r' = \frac{r}{2} = 0.500 r \quad \text{Ans}$$

$$\text{b) } \int_0^r \tau \rho^2 d\rho = 2\pi \int_0^{r'} \tau_{max} \rho^2 d\rho$$

$$\int_0^r \tau \rho^2 d\rho = 2\pi \int_0^{r'} \frac{T}{\pi(r')^3} \rho^2 d\rho$$

$$\int_0^r \tau \rho^2 d\rho = 2\pi \int_0^{r'} \frac{T}{\pi(r')^3} \rho^2 d\rho$$

$$\frac{T}{2} = \frac{4T}{r'^3} \int_0^{r'} \rho^2 d\rho$$

$$r' = \frac{r}{2} = 0.500 r \quad \text{Ans}$$



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