



### PROBLEM 3.2

(a) Determine the torque  $T$  that causes a maximum shearing stress of 45 MPa in the hollow cylindrical steel shaft shown. (b) Determine the maximum shearing stress caused by the same torque  $T$  in a solid cylindrical shaft of the same cross-sectional area.

### SOLUTION

(a) Given shaft:

$$J = \frac{\pi}{2} (c_2^4 - c_1^4)$$

$$J = \frac{\pi}{2} (45^4 - 30^4) = 5.1689 \times 10^6 \text{ mm}^4 = 5.1689 \times 10^{-6} \text{ m}^4$$

$$\tau = \frac{Tc}{J} \quad T = \frac{J\tau}{c}$$

$$T = \frac{(5.1689 \times 10^{-6})(45 \times 10^6)}{45 \times 10^{-3}} = 5.1689 \times 10^3 \text{ N} \cdot \text{m}$$

$$T = 5.17 \text{ kN} \cdot \text{m} \quad \blacktriangleleft$$

(b) Solid shaft of same area:

$$\begin{aligned} J_{\text{solid}} &= \frac{\pi}{2} c^4 \\ J_{\text{solid}} &= J_{\text{hollow}} = 5.1689 \times 10^6 \text{ mm}^4 \\ c^4 &= \frac{2J_{\text{solid}}}{\pi} = \frac{2(5.1689 \times 10^6)}{\pi} \\ c &= \sqrt[4]{\frac{2(5.1689 \times 10^6)}{\pi}} = 45.0 \text{ mm} \end{aligned}$$

PROBLEM 3.2

# Mechanics Of Materials 6th Edition Chapter 3 Solutions

**Puja Mehta**



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