

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: $J = \frac{\pi}{2} \left(c_2^4 - c_1^4 \right)$ $J = \frac{\pi}{2} (45^4 - 30^4) = 5.1689 \times 10^6 \text{ mm}^4 = 5.1689 \times 10^{-6} \text{ m}^4$ $\tau = \frac{Tc}{J} \qquad T = \frac{J\tau}{c}$ $T = \frac{(5.1689 \times 10^{-6})(45 \times 10^6)}{45 \times 10^{-3}} = 5.1689 \times 10^3 \text{ N} \cdot \text{m}$

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

(b) Solid shaft of same area:

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A Gutmann

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