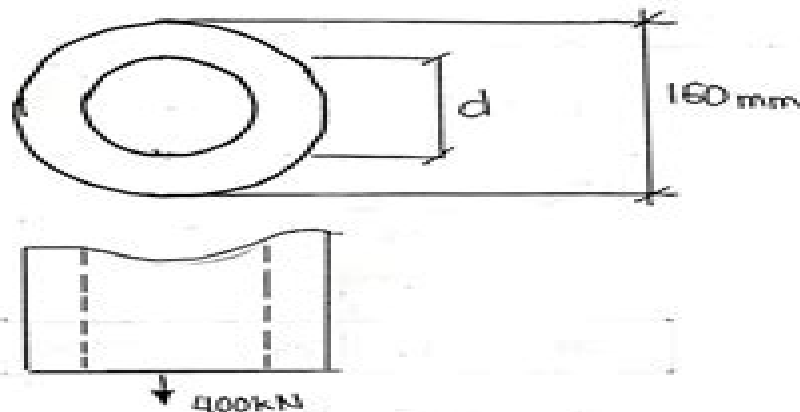


Strength of Materials Sample Problems with Solutions

Stress, torsion, Statically Indeterminate Members, Thermal Stresses

1. A hollow steel tube with an outside diameter 150 mm must carry a tensile load of 400 kN as shown on the figure. Det. the thickness of the tube if the stress is limited to 200 MPa.



Given:

$$\begin{aligned} D &= 150 \text{ mm} \\ P &= 400 \text{ kN} \\ \sigma &= 200 \text{ MPa} \\ t &= ? \end{aligned}$$

$$\sigma = \frac{P}{A}$$

$$A = \frac{\pi}{4} D^2 - \frac{\pi}{4} d^2$$

$$= \frac{\pi}{4} (150)^2 - \frac{\pi}{4} d^2$$

$$A = \frac{\pi}{4} (150^2 - d^2) \text{ mm}^2$$

$$\sigma = \frac{P}{A}$$

$$200 \text{ MPa} = \frac{400,000 \text{ N}}{\frac{\pi}{4} (150^2 - d^2) \text{ mm}^2}$$

$$200 [0.25 \pi (150^2 - d^2)] = 400,000$$

$$d = 141.26 \text{ mm}$$

$$D = 2t + d$$

$$150 = 2t + 141.26$$

$$t = 4.37 \text{ mm}$$

Strength Of Materials Problems Solutions

Jin-Ying Zhang



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