



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:

$$\begin{aligned} J &= \frac{\pi}{2} c^4 \\ 5.1689 \times 10^{-6} &= \frac{\pi}{2} c^4 \\ c^4 &= \frac{2(5.1689 \times 10^{-6})}{\pi} \\ c &= \sqrt[4]{\frac{2(5.1689 \times 10^{-6})}{\pi}} = 15.24 \times 10^{-3} \text{ m} \\ &= 15.24 \text{ mm} \end{aligned}$$

PROBLEM 3.2

Mechanics Of Materials 6th Edition Chapter 3 Solutions

Bruce Cameron Reed



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Stress, Strain, and Structural Dynamics Bingen Yang, 2022-09-13 Stress Strain and Structural Dynamics An Interactive Handbook of Formulas Solutions and MATLAB Toolboxes Second Edition is the definitive reference to statics and dynamics of solids and structures including mechanics of materials structural mechanics elasticity rigid body dynamics vibrations structural dynamics and structural controls The book integrates the development of fundamental theories formulas and mathematical models with user friendly interactive computer programs that are written in MATLAB This unique merger of technical reference and interactive computing provides instant solutions to a variety of engineering problems and in depth exploration of the physics of deformation stress and motion by analysis simulation graphics and animation Combines knowledge of solid mechanics with relevant mathematical physics offering viable solution schemes Covers new topics such as static analysis of space trusses and frames vibration analysis of plane trusses and frames transfer function formulation of vibrating systems and more Empowers readers to better integrate and understand the physical principles of classical mechanics the applied mathematics of solid mechanics and computer methods Includes a companion website that features MATLAB exercises for solving a wide range of complex engineering analytical problems using closed solution methods to test against numerical and other open ended methods

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Composite Materials, 6th Japan/US Conference Kier M. Finlayson, Kenton R. Osborn, Waleed Shalaby, 1993-01-15 This book contains technical papers presented at the Sixth Japan U S Conference on Composite Materials held in Orlando in 1982 on various topics including stress analysis interfaces and material systems micromechanics structural analysis design and optimization and strength analysis

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Physics of Semiconductor Devices Massimo Rudan, 2014-12-11 This book describes the basic physics of semiconductors including the hierarchy of transport models and connects the theory with the functioning of actual

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