

MACHINE DESIGN/SHOP PRACTICE PROBLEMS WITH SOLUTIONS

MULTIPLE CHOICE QUESTIONS

Select the best answer from each of the following questions. On the answer sheet provided, shade the box that corresponds to your choice. Strictly no erasures allowed.

1. If a solid shaft has a diameter of 4 inches. Determine the polar section modulus.
 a) 25.13 in³ b) 12.57 in³ c) **12.57 in³** d) 25.13 in³

$$\text{Solution: } Z_p = \frac{J}{c} = \frac{2J}{D} = \frac{\pi}{16} D^3 = \frac{\pi}{16} (4)^3 = 12.57 \text{ in}^3$$

2. The transmitted torque of a hollow shaft is 3400 N-m at a shearing stress of 55 MPa. If the outside diameter is 1.25 times that of the inside diameter, what is the inside diameter, in mm?
 a) **64.87** b) 46.87 c) 84.67 d) 74.64

$$\text{Solution: } \tau_s = \frac{16T}{\pi D_o^3 (1 - \beta^4)} \quad \text{where, } \beta = \frac{D_i}{D_o} = \frac{1}{1.25} = 0.8$$

$$D_o = \sqrt[3]{\frac{16T}{\pi \tau_s (1 - \beta^4)}} = \sqrt[3]{\frac{16(3.4)}{\pi (55000) [1 - (0.8)^4]}} = 81.092 \text{ mm}$$

$$D_i = \frac{D_o}{1.25} = \frac{81.092}{1.25} = 64.87 \text{ mm}$$

3. If the angular deformation of a solid shaft should not to exceed 1° in a length of 1.8 m and the allowable shearing stress is 83 Mpa, what is the diameter of the shaft? Assume that the shaft material has $G = 77 \times 10^4$ kPa.
 a) **222.34 mm** b) 234.22 mm c) 23.42 cm d) 24.22 cm

$$\text{Solution: } \theta = \frac{TL}{JG} = \frac{32TL}{\pi D^4 G} = \frac{32 \left(\frac{\pi D^3 \tau_s}{16} \right) L}{\pi D^4 G} = \frac{2 \tau_s L}{DG}$$

$$D = \frac{2 \tau_s L}{\theta G} = \frac{2(83000)(1.8)}{1^\circ \left(\frac{\pi}{180^\circ} \right) (77 \times 10^4)} = 222.34 \text{ mm}$$

4. What modulus of elasticity in tension is required to obtain a unit deformation of 0.00105 from a load producing a unit tensile stress of 3163.27 kg/cm²?
 a) 40 x 10⁴ psi b) **43 x 10⁴ psi** c) 45 x 10⁴ psi d) 46 x 10⁴ psi

Machine Design Problems And Solutions

**Thirumalaisamy P.
Velavancorresponding**



Machine Design Problems And Solutions:

Enjoying the Beat of Phrase: An Mental Symphony within **Machine Design Problems And Solutions**

In a world taken by displays and the ceaseless chatter of instant communication, the melodic elegance and emotional symphony developed by the prepared term often fade into the backdrop, eclipsed by the persistent noise and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Machine Design Problems And Solutions** a charming fictional value filled with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this fascinating masterpiece conducts visitors on a psychological journey, well unraveling the hidden tunes and profound affect resonating within each carefully constructed phrase. Within the depths with this touching assessment, we shall explore the book is key harmonies, analyze their enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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