

## 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 in<sup>3</sup>                      b) 12.57 in<sup>3</sup>                      c) **12.57 in<sup>3</sup>**                      d) 25.13 in<sup>3</sup>

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

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

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

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

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

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/cm<sup>2</sup>?  
 a) 40 x 10<sup>4</sup> psi                      b) **43 x 10<sup>4</sup> psi**                      c) 45 x 10<sup>4</sup> psi                      d) 46 x 10<sup>4</sup> psi

# Machine Design Problems And Solutions

**S Baum**



## **Machine Design Problems And Solutions:**

## The Enigmatic Realm of **Machine Design Problems And Solutions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Machine Design Problems And Solutions** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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