

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

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

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

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

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/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

Jin-Ying Zhang



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Table of Contents Machine Design Problems And Solutions

1. Understanding the eBook Machine Design Problems And Solutions
 - The Rise of Digital Reading Machine Design Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Machine Design Problems And Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Machine Design Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Machine Design Problems And Solutions
 - Personalized Recommendations

- Machine Design Problems And Solutions User Reviews and Ratings
- Machine Design Problems And Solutions and Bestseller Lists
- 5. Accessing Machine Design Problems And Solutions Free and Paid eBooks
 - Machine Design Problems And Solutions Public Domain eBooks
 - Machine Design Problems And Solutions eBook Subscription Services
 - Machine Design Problems And Solutions Budget-Friendly Options
- 6. Navigating Machine Design Problems And Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Machine Design Problems And Solutions Compatibility with Devices
 - Machine Design Problems And Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Machine Design Problems And Solutions
 - Highlighting and Note-Taking Machine Design Problems And Solutions
 - Interactive Elements Machine Design Problems And Solutions
- 8. Staying Engaged with Machine Design Problems And Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Machine Design Problems And Solutions
- 9. Balancing eBooks and Physical Books Machine Design Problems And Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Machine Design Problems And Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Machine Design Problems And Solutions
 - Setting Reading Goals Machine Design Problems And Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Machine Design Problems And Solutions
 - Fact-Checking eBook Content of Machine Design Problems And Solutions

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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