

$$T_2 \left(\frac{l-x}{x} \right) + T_2 = 1500 \Rightarrow T_2 = 1500 \frac{x}{l} \quad \text{Ans.} \quad (3)$$

$$\text{Substitute into Eq. (2) resulting in} \quad T_1 = 1500 \frac{l-x}{l} \quad \text{Ans.} \quad (4)$$

$$\text{(b) From Eq. (1), } k = \frac{\pi}{32} (0.5^4) 11.5 (10^6) \left(\frac{1}{5} + \frac{1}{10-5} \right) = 28.2 (10^3) \text{ lbf} \cdot \text{in/rad} \quad \text{Ans.}$$

$$\text{From Eq. (4), } T_1 = 1500 \frac{10-5}{10} = 750 \text{ lbf} \cdot \text{in} \quad \text{Ans.}$$

$$\text{From Eq. (3), } T_2 = 1500 \frac{5}{10} = 750 \text{ lbf} \cdot \text{in} \quad \text{Ans.}$$

$$\text{From either section, } \tau = \frac{16T_1}{\pi d_1^3} = \frac{16(1500)}{\pi (0.5^3)} = 30.6 (10^3) \text{ psi} = 30.6 \text{ kpsi} \quad \text{Ans.}$$

- 4-4** Deflection to be the same as Prob. 4-3 where $T_1 = 750 \text{ lbf} \cdot \text{in}$, $l_1 = l / 2 = 5 \text{ in}$, and $d_1 = 0.5 \text{ in}$

$$\theta_1 = \theta_2 = \theta$$

$$\frac{T_1 (4)}{\frac{\pi}{32} d_1^4 G} = \frac{T_2 (6)}{\frac{\pi}{32} d_2^4 G} = \frac{750(5)}{\frac{\pi}{32} (0.5^4) G} \Rightarrow \frac{4T_1}{d_1^4} = \frac{6T_2}{d_2^4} = 60 (10^3) \quad (1)$$

$$\text{Or,} \quad T_1 = 15 (10^3) d_1^4 \quad (2)$$

$$T_2 = 10 (10^3) d_2^4 \quad (3)$$

$$\text{Equal stress, } \tau_1 = \tau_2 \Rightarrow \frac{16T_1}{\pi d_1^3} = \frac{16T_2}{\pi d_2^3} \Rightarrow \frac{T_1}{d_1^3} = \frac{T_2}{d_2^3} \quad (4)$$

Divide Eq. (4) by the first two equations of Eq.(1) results in

$$\frac{\frac{T_1}{d_1^3}}{\frac{4T_1}{d_1^4}} = \frac{\frac{T_2}{d_2^3}}{\frac{6T_2}{d_2^4}} \Rightarrow d_2 = 1.5d_1 \quad (5)$$

$$\text{Statics, } T_1 + T_2 = 1500 \quad (6)$$

Substitute in Eqs. (2) and (3), with Eq. (5) gives

$$15 (10^3) d_1^4 + 10 (10^3) (1.5d_1)^4 = 1500$$

Solving for d_1 and substituting it back into Eq. (5) gives
 $d_1 = 0.388 \text{ in}$, $d_2 = 0.583 \text{ in} \quad \text{Ans.}$

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Table of Contents Mechanical Engineering Design 9th Edition Solutions

1. Understanding the eBook Mechanical Engineering Design 9th Edition Solutions
 - The Rise of Digital Reading Mechanical Engineering Design 9th Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Design 9th Edition 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 Mechanical Engineering Design 9th Edition Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Design 9th Edition Solutions

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

- Fact-Checking eBook Content of Mechanical Engineering Design 9th Edition 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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