

CHAPTER 8

8.20 Estimate the 2×10^6 fatigue strength for a 25-mm-diameter reversed axially loaded steel bar having $S_u = 950 \text{ MPa}$, $S_y = 600 \text{ MPa}$, and a hot-rolled surface.

$$S_n = ? \quad \text{at} \quad N = 2 \cdot 10^6$$

Table 8.1 Axial loads.

$$C_T = 1 \quad C_R = 1 \text{ (no info)}$$

$$\text{At } N = 10^3 \rightarrow S_f = 0.75 \cdot S_u \cdot C_T \rightarrow S_f = 0.75 \cdot 950 = 713 \text{ MPa}$$

$$\text{At } N = 10^6 \rightarrow S_n = S'_n \cdot C_L \cdot C_G \cdot C_S \cdot C_T \cdot C_R$$

$$S'_n = 0.5 \cdot S_u$$

$$10 < \phi < 50, \text{ axial load} \rightarrow C_G = 0.8$$

Figure 8.13: $C_S \approx 0.47$ (hot-rolled, $S_u = 950 \text{ MPa}$)

$$C_L = 1 \text{ (axial load)}$$

$$\left. \begin{array}{l} S_n = 0.5 \cdot 950 \cdot 0.8 \cdot 0.47 = \\ = S_n = 179 \text{ MPa} \end{array} \right\}$$

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Table of Contents Chapter 8 Solutions

1. Understanding the eBook Chapter 8 Solutions
 - The Rise of Digital Reading Chapter 8 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 8 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 Chapter 8 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 8 Solutions
 - Personalized Recommendations
 - Chapter 8 Solutions User Reviews and Ratings
 - Chapter 8 Solutions and Bestseller Lists
5. Accessing Chapter 8 Solutions Free and Paid eBooks
 - Chapter 8 Solutions Public Domain eBooks
 - Chapter 8 Solutions eBook Subscription Services

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