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Problem 1

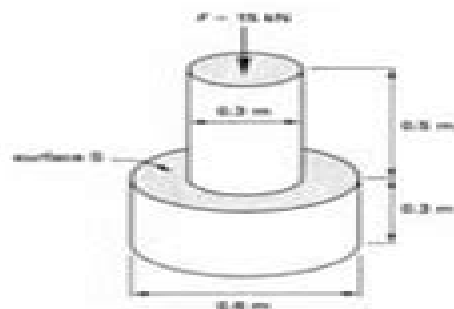
Where do stress concentrations occur?

- I. near the points of application of concentrated loads
- II. along the entire length of high distributed loads
- III. at discontinuities

- (A) I and II
(B) I and III
(C) II and III
(D) I, II, and III

Problem 2

What is most nearly the stress at surface S of the cylindrical object shown? The specific weight of the material is $\gamma = 76.9 \text{ kN/m}^3$.



- (A) 100 kPa
(B) 150 kPa
(C) 200 kPa
(D) 250 kPa

Problem 3

What is the deflection at point B of the beam shown?



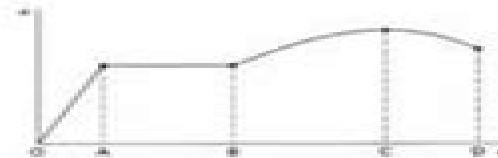
- (A) 17 mm
(B) 25 mm
(C) 36 mm
(D) 48 mm

Name: _____

Due Thursday, March 16, 2006

Problem 4

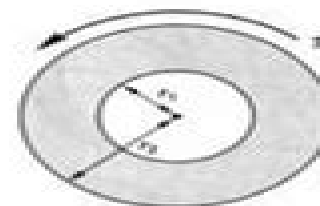
Consider the stress-strain diagram for a carbon steel in tension. Determine the region of perfect plasticity or yielding.



- (A) O to A
(B) A to B
(C) B to C
(D) C to D

Problem 5

A hollow circular bar has an inner radius r_1 and an outer radius r_2 . If $r_1 = r_2/2$, most nearly what percentage of torque can the shaft carry in comparison with a solid shaft?



- (A) 25%
(B) 55%
(C) 75%
(D) 95%

Mechanics Of Materials Study Guide

**Ohio State University. Center for
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Table of Contents Mechanics Of Materials Study Guide

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

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