

**STRUCTURAL ENGINEERING & CONSTRUCTION
(NOVEMBER 2011)**

Situation 1 – A load of $W = 30 \text{ kN}$ is lifted through a boom BCD as shown in the figure. The boom makes an angle of 60° with the vertical. Neglect the weight of the boom and for this problem, $L_1 = L_2 = 2 \text{ m}$. The pulley at D is frictionless.



1. Determine the angle α .
 A. 40°
 B. 35°
 C. 45°
2. What is the tension in cable AC in kN ?
 A. 51.96
 B. 25.36
 C. 34.89
 D. 43.21
3. What is the total reaction at B in kN ?
 A. 54.77
 B. 43.21
 C. 17.32
 D. 51.96

Situation 2 – The strut shown in the figure carries an axial load of $P = 148 \text{ kN}$.



4. Determine the bearing stress between the pin and the strut:
 A. 463 MPa
 B. 345 MPa
 C. 285 MPa
 D. 563 MPa
5. Determine the shearing stress in the pin.
 A. 286 MPa
 B. 368 MPa
 C. 321 MPa
 D. 341 MPa

Civil Engineering Practice Problems

Michael R. Lindeburg



Civil Engineering Practice Problems:

FE Civil Practice Problems for the Civil Fundamentals of Engineering Exam Michael R. Lindeburg, 2014

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Table of Contents Civil Engineering Practice Problems

1. Understanding the eBook Civil Engineering Practice Problems
 - The Rise of Digital Reading Civil Engineering Practice Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Practice Problems
 - 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 Civil Engineering Practice Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Practice Problems
 - Personalized Recommendations
 - Civil Engineering Practice Problems User Reviews and Ratings
 - Civil Engineering Practice Problems and Bestseller Lists

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