

**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

Laszlo P. Kollar, Gabriella Tarjan



Civil Engineering Practice Problems:

Practice Problems for the FE-CIVIL CBT Exam Indranil Goswami,2014-03-02 This book was written to assist the student preparing for the new Civil FE Examination It consists of approximately 500 multiple choice practice problems of difficulty level appropriate for the new FE examination They are organized in the same order as in the official NCEES syllabus Answers are included *FE Civil Practice Problems for the Civil Fundamentals of Engineering Exam* Michael R. Lindeburg,2014 Complement your FE Civil Review Manual study with these discipline specific practice problems *Ppi Fe Civil Exams--Five Full Practice Exams with Step-By-Step Solutions* Mohammad Iqbal,Ali Iqbal,2021-03-22 The new FE Civil Exams book includes five full practice exams containing 550 problems designed to reinforce your understanding of civil engineering concepts and equations found in the NCEES FE Reference Handbook Solutions are provided for all problems so you can review problem solving methods Also included is a detailed appendix to help you find each solution's related equations and engineering concepts in the NCEES Handbook Features Include Provides five 110 question practice exams A mix of multiple choice questions and alternative item types AITs to give you realistic exam practice Problems are designed to be solved in three minutes or less to demonstrate the format and difficulty of the exam Topics Covered Mathematics and Statistics Ethics and Professional Practice Engineering Economics Statics Dynamics Mechanics of Materials Materials Fluid Mechanics Surveying Water Resources and Environmental Engineering Structural Engineering Geotechnical Engineering Transportation Engineering Construction Engineering **FE-Civil Practice Questions with Detailed Solutions** Girum Urgessa,2018-03-02 If you are interested in a straight forward but comprehensive resource designed to support your preparation for the FE Civil exam this book is for you The book contains 220 practice problems for the FE Civil exam In the first section a complete set of 110 FE Civil style solved problems are provided with detailed solutions for allowing quick review of all examination areas In the second section a full length practice exam consisting of 110 questions is provided for self assessment followed by detailed solutions In the third section summary tables of final answers and a short discussion on historical changes to the FE exam are included for reference [The Ultimate Civil Fe Practice Exam](#) Isaac Oakeson,Isaac Oakeson Pe,2016-05-15 The Ultimate Civil FE Practice Exam is your key to passing the civil FE exam and your first step to ultimately getting your PE In this exam you will receive 110 questions with detailed solutions so that you can better identify your weaknesses and your strengths Engineers know that the key to passing exams is to practice problems and that's why we made this Get the practice in and you will be ready to ace the computer based FE exam So what are you waiting for Let's do this *Practice Problems for the Civil Engineering PE Exam* Michael R. Lindeburg,2006 Provides the breadth and depth of problem solving practice needed to successfully prepare for the PE exam **Civil Engineering FE Exam Preparation Sample Questions and Solutions** Anthem Books,2017-03-12 The standard for Civil Engineering FE Review includes 110 practice problems with full solutions Set up to provide in depth analysis of likely FE exam problems This guide will get

anyone ready for the Civil FE Exam Topics covered Statics Dynamics Mechanics of Materials Geotechnical Transportation Environmental Engineering Fluid Mechanics Hydraulics Hydrologic Systems Structural Analysis Design FE Civil Practice Problems M. Rashad Islam,2021-07 This book contains 380 solved problems for the Fundamentals of Engineering FE Civil exam held by the NCEES The included practice problems are similar to the problems you will encounter during the NCEES held FE Civil exam Step by step and easy to follow solutions to deepen your understanding of all civil engineering areas covered in the book It also uses the equations and nomenclature from the most recent NCEES FE reference handbook to familiarize you with the only handbook you will use on exam day **Pe Exam Practice Problems with Solutions** Mark Berns,2018-04 PE Exam Practice Problems With Solutions for the Civil PE Exam AM Session provides you with 40 practice problems designed to prepare you for the morning AM session of the Civil PE examination The 40 problems consist of the following subject areas with each area representing approximately 20% of the exam subject matter in the AM session of the exam ConstructionGeotechnicalStructuralTransportationWater Resources Environmental *Practice Problems for the Civil Engineering PE Exam* Michael R. Lindeburg,2003 More than 430 practice problems with solutions Updated with new codes and standards tested on the exam **Construction Practice Problems** Shahin Mansour,2023-05 Construction Practice problems and solutions in Construction Module 4th edition for the PE Civil Exam includes more than 200 practice problems and detailed solutions The book includes 3 Chapters for the Construction CBT AM topics and CBT 7 Chapters for the Construction PM topics The 12 Chapters are based on the current NCEES V 1 2 the 8 design standards and topics listed in the NCEES exam specifications per 2023 CBT Exam Civil Pe Practice Exam Pe Prepared Llc,2017-07-29 One practice examination for the civil PM geotechnical depth portion of the NCEES Principles and Practice of Engineering Examination PE Exam Includes 40 realistic civil engineering problems with detailed step by step solutions to help you prepare for exam day Please visit our website at PEPrepared com for video workshops course notes test strategies tips and other free resources PE Prepared was created by real practicing civil engineers to give E I T s and E I s like yourself a leg up on test day We strove to author realistic questions at the right level of difficulty with detailed step by step solutions to help you learn the content that is going to be on the exam *Civil PE Practice Problems Bible* Ali Asadi,2019-07-11 This book includes 400 PE breadth exam practice questions with detailed solutions based on the specifications of CIVIL Engineering PE exam by the National Council of Examiners for Engineering and Surveying NCEES This book contains the following sections Construction 127 Questions Geotechnical 80 Questions Structural 70 Questions Transportation 47 Questions Water Resources and Environmental 76 QuestionsIf you would like to practice time based actual exams please obtain my other book Civil Engineering PE Practice Exams Five Full Exams With Detailed Solutions Although you will find some of the same questions from the book you have now the format of exams is like actual breadth exams in the following topics Project Planning Means and Methods Soil Mechanics Structural Mechanics Hydraulics and Hydrology Geometrics Materials Site Development If you

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Civil PE Practice Problems Bible Ali Asadi,2021-01-22 This book includes main formulas and 400 breadth exam practice questions with detailed solutions based on the specifications of the CIVIL Engineering PE exam by the National Council of Examiners for Engineering and Surveying NCEES This book contains the following sections Construction 127 Questions Geotechnical 80 Questions Structural 70 Questions Transportation 47 Questions Water Resources and Environmental 76 Questions

Civil Engineering Practice Problems Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Civil Engineering Practice Problems**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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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 eBook 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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