

**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  $60^\circ$  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  $\alpha$ .  
 A.  $40^\circ$   
 B.  $35^\circ$   
 C.  $45^\circ$
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

**L Darling-Hammond**



## **Civil Engineering Practice Problems:**

**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 [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 **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

**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

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 *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 have any questions or suggestions please contact me at [civilpeexams1@gmail.com](mailto:civilpeexams1@gmail.com) **Civil Engineering Pe Practice Exams** Civil PE Practice,2018-01-25 Two Full Breadth Practice Exams for the Civil Engineering PE Exam Contains 80 problems that are representative of the actual Civil Engineering PE Exam Each question has been designed in accordance with the latest NCEES specifications These questions were created by real practicing civil engineers that are familiar with the actual exam Each question comes with a detailed solution to help you study efficiently and effectively Register your book at [CivilPEPractice.com](http://CivilPEPractice.com) for additional practice questions Exam Topics Covered Project Planning Means and Methods Soil Mechanics Structural Mechanics Hydraulics and Hydrology Geometrics Materials Site Development **Practice Exams for the Civil PE Examination** Indranil Goswami,Indranil Goswami P E,2013-11-20 Two forty question practice tests with answers for the Civil PE Breadth Exam **Civil Pe Practice Exam** Pe Prepared Llc,2016-07-10 One practice examination for the civil AM breadth 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 There are two separate breadth practice exams from PE Prepared this is Version A See Version B for 40 additional problems Congratulations on your decision to take the Principles and Practice of Engineering Examination for Civil Engineering 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 Our questions aren t harder than they need to be but aren t easier either They should take less than 6 minutes to solve Take PE Prepared practice exams as a realistic simulation of exam day to measure your level of preparedness or simply use them as a bank of practice questions while you study

**Mechanics of Civil Engineering Structures** Laszlo P. Kollar,Gabriella Tarjan,2020-10-20 Practicing engineers designing civil engineering structures and advanced students of civil engineering require foundational knowledge and advanced analytical and empirical tools Mechanics in Civil Engineering Structures presents the material needed by practicing engineers engaged in the design of civil engineering structures and students of civil engineering The book covers the fundamental principles of mechanics needed to understand the responses of structures to different types of load and provides the analytical and empirical tools for design The title presents the mechanics of relevant structural elements including columns beams frames plates and shells and the use of mechanical models for assessing design code application Eleven chapters cover topics including stresses and strains elastic beams and columns inelastic and composite beams and columns temperature and other kinematic loads energy principles stability and second order effects for beams and columns basics of vibration indeterminate elastic plastic structures plates and shells This book is an invaluable guide for civil engineers needing foundational background and advanced analytical and empirical tools for structural design Includes 110 fully worked out examples of important problems and 130 practice problems with an interaction solution manual <http://hsz121>

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*Design of Reinforced Concrete Structures* Alan Williams,2004 Here is a comprehensive guide and reference to assist civil engineers preparing for the Structural Engineer Examination It offers 350 pages of text and 70 design problems with complete step by step solutions Topics covered Materials for Reinforced Concrete Limit State Principles Flexure of Reinforced Concrete Beams Shear and Torsion of Concrete Beams Bond and Anchorage Design of Reinforced Concrete Columns Design of Reinforced Concrete Slabs and Footings Retaining Walls and Piled Foundations An index is provided

**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

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