

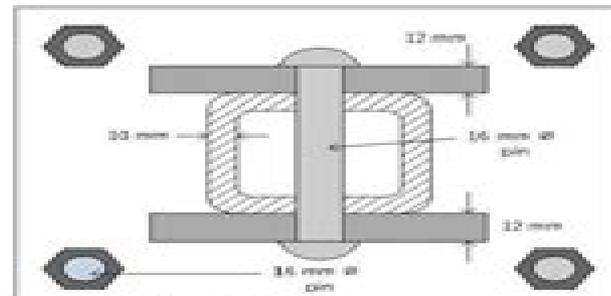
**STRUCTURAL ENGINEERING & CONSTRUCTION  
(NOVEMBER 2011)**

**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  $\text{kN}$ ?  
 A. 51.96  
 B. 25.36  
 C. 34.89  
 D. 43.21
3. What is the total reaction at  $B$  in  $\text{kN}$ ?  
 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  $\text{MPa}$   
 B. 345  $\text{MPa}$   
 C. 285  $\text{MPa}$   
 D. 563  $\text{MPa}$
5. Determine the shearing stress in the pin.  
 A. 286  $\text{MPa}$   
 B. 368  $\text{MPa}$   
 C. 321  $\text{MPa}$   
 D. 341  $\text{MPa}$

# Civil Engineering Practice Problems

**Léo Pomar**



## **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 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 *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 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 **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

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**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 Questions If 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)

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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 *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 **PPI PE Civil Practice Problems, 16th Edition - Comprehensive Practice for the NCEES PE Civil Exam** Michael R. Lindeburg, 2019-03-01 CEPP16 The Most Comprehensive Practice on the Market for the PE Civil exam PE Civil Practice Problems contains over 900 problems designed to reinforce your knowledge of the topics presented in the PE Civil Reference Manual CERM16 Short multiple choice problems that focus on individual engineering concepts and longer more complex problems challenge your skills in identifying and applying related engineering concepts Problems will also familiarize you with the codes and standards you ll use on the civil engineering exam Topics Covered Civil Breadth Project Planning Means and Methods Soil Mechanics Structural Mechanics Hydraulics and Hydrology Geometrics Materials Site Development Construction Earthwork Construction and Layout Estimating Quantities and Costs Construction Operations and Methods Scheduling Material Quality Control and Production Temporary Structures Health and Safety Geotechnical Site Characterization Soil Mechanics Laboratory Testing and Analysis Field Materials Testing Methods and Safety Earthquake Engineering and Dynamic Loads Earth Structures Groundwater and Seepage Problematic Soil and Rock Conditions Earth Retaining Structures Shallow Foundations Deep Foundations Structural Analysis of Structures Design and Details of Structures Codes and Construction Transportation Traffic Engineering Horizontal Design Vertical Design Intersection Geometry Roadside and Cross Section Design Signal Design Traffic Control Design Geotechnical and Pavement Drainage Alternatives Analysis Water Resources and Environmental Analysis and Design Hydraulics Closed Conduit Hydraulics Open Channel Hydrology Groundwater and Wells Wastewater Collection and Treatment Water Quality Drinking Water Distribution and Treatment Engineering Economic Analysis Key Features Over 900 practice problems to help prepare you for the NCEES PE Civil Exam Frequent references to figures tables equations and appendices in the PE Civil Reference Manual Six minute multiple choice problems that follow the NCEES PE Civil exam problem format and focus on individual engineering concepts Complex problems that challenge your skills in identifying and applying related engineering concepts Equally supports U S customary and SI units and meticulously identifies units that carry through in all calculations

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**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 ll 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 ll be ready to ace the computer based FE exam So what are you waiting for Let s do this

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jeudi 12 mars 2020 la guerre d espagne et ses conséquences internationales 1936 1939 l espagne n est plus une grande puissance mondiale comme cela avait été le cas jusqu au début du xixe siècle et le pays a très mal abordé le virage de la révolution industrielle au contraire de ses voisins notamment la france

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l offensive finale de la guerre d espagne se déroule du 26 mars au 1 er avril 1939 et voit la chute de la seconde république espagnole dirigée par une junte militaire sous l autorité du colonel segismundo casado après son coup d État contre le gouvernement du premier ministre juan negrín le 6 mars de la même année avec la prise de

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l intérêt porté à cet événement tient bien sûr à sa durée de juillet 1936 à fin mars 1939 2 mais aussi à ses caractères nationaux et internationaux et à ses enjeux à sa fonction de laboratoire

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la guerre d espagne années 1938 1939 rude victoire pour franco cette guerre civile se solde par la dictature du général franco le caudillo 500 000 morts donnent un avant goût des horreurs de la seconde guerre mondiale

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la guerre d espagne est un conflit qui du 17 juillet 1936 au 1er avril 1939 opposa en espagne d une part le camp des républicains orienté à gauche et à l extrême gauche composé de loyalistes à l égard du gouvernement légalement établi de la iiie république de communistes de marxistes et de révolutionnaires anarchistes et d autre part les nationalistes les rebelles

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prend officiellement ses fonctions d'attaché militaire près l'ambassade de France en Espagne et de la légation de France au  
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de Franco en 1975 sont des mouvements migratoires transfrontaliers et des expatriations vers des foyers extra-européens  
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mise au point les puissances étrangères dans la guerre civile espagnole peu après le putsch pronunciamiento orchestré par  
Franco le 17-18 juillet 1936 la guerre civile espagnole prend rapidement une dimension internationale

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alors que les élections législatives de février 1936 ont donné la victoire aux partis de la gauche espagnole rassemblés au sein  
du Frente Popular le général Franco prononce le 18 juillet 1936 depuis le Maroc espagnol un pronunciamiento contre le  
nouveau gouvernement

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le 17 juillet 1936 au Maroc un jeune général prénommé Franco mène un coup d'État avec une partie des militaires les troupes

du maroc débarquent l'Espagne se coupe alors en deux entre les régions soutenant le régime républicain et les autres qui rejoignent les nationalistes