

HYDRAULICS & GEOTECHNICAL ENGINEERING  
NOVEMBER 2018

1. Given the unit weight of air to be constant at  $12 \text{ N/m}^3$ , determine the approximate height of a mountain, in meters, if a mercury barometer at its base reads 760 mm and at the same instant another barometer at the top of the mountain reads 300 mm.
 

A. 5085	C. 5136
B. 5029	D. 5114
2. A tank containing water has a total weight of 75 kg when weighed. Obtain the new reading on the weighing scale if a 50 mm by 50 mm piece of wood is held vertically in the water to a depth of 700 mm.
 

A. 77.05	C. 75.55
B. 76.75	D. 74.25
3. A cube, 310 mm on each side is to be held in equilibrium under water by attaching a lightweight foam buoy to it. The specific weight of the cube and foam are  $20 \text{ kN/m}^3$  and  $0.81 \text{ kN/m}^3$ , respectively. Evaluate the minimum volume of the foam required, in  $\text{m}^3$ . Neglect the attachments in the calculations.
 

A. 0.0432	C. 0.0337
B. 0.0559	D. 0.0248

**Situation 1** – A right circular cylinder having a diameter of 1.00 m and weighing 850 N is held in position by an anchor block such that 0.35 m of the cylinder is below the surface of the water with its axis vertical. The anchor block has a volume of 0.50 cubic meter and weighs 24 kN per cubic meter in air. Assume sea water to have a specific gravity = 1.03. Neglecting the weight and volume of the cable.

4. (1) Evaluate the buoyant force on the cylinder for the position described, in kN;
 

A. 2.78	C. 5.36
B. 3.21	D. 4.21
5. (2) Evaluate the tensile force in the wire for the given draft of the cylinder.
 

A. 3.85 kN	C. 1.93 kN
B. 3.42 kN	D. 1.54 kN
6. (3) Evaluate the rise in the tide that will lift the anchor from the bottom of the sea, in meter(s).
 

A. 0.983	C. 0.752
B. 0.633	D. 0.425
7. A rigid gate of a flood control structure in a river is 6 m wide by 4 m high and weighs 10 kN. With its longer edge horizontal, it is moved up and down with its short edges sliding in vertical channel guides. Evaluate the force, in kN, needed to raise the gate when the surface of the water is 2 m above its top edge. There is no water on the downstream side of the gate. The coefficient of friction between the gate and the channel guides is 0.15. Neglect the buoyant effect of the water on the gate and the weight of the cables connected to the gate.
 

A. 104	C. 110
B. 151	D. 92

# Civil Engineering Board Exam Problems Solutions

**Donald G. Newnan**



## **Civil Engineering Board Exam Problems Solutions:**

**Civil Engineering** Donald G. Newnan, 2004 This volume is a study guide for the civil engineer taking the PE exam Solved problems throughout each chapter reinforce the concepts discussed in the text **Professional Engineer**, 1985

**Professional Engineer (civil) State Board Examination Review** Murland R. Packer, Darryl W. Davis, 1977 The Engineer, 1981 **Sample Examinations: Civil engineering** California. State Board of Registration for Civil and Professional Engineers, 1952 *Structural Engineering* Alan Williams, 2004 Written for candidates preparing for the state specific structural engineering examinations this volume contains problems and solutions from recent exams Candidates for the national Structural I and II exams can use this book in conjunction with the UBC IBC Structural Comparison Cross Reference found on page 22 The book is a comprehensive guide and reference for self study **120 Solved Surveying Problems for the California Special Civil Engineer Examination** Peter R. Boniface, 2005 Solving these 120 exam like surveying problems will help you gain confidence to take and pass the surveying portion of the California Special Civil Engineer exam Complete solutions allow you to check your solving methods so you'll understand how to efficiently reach the correct answers Information is provided about the exam format and how to best use this book for successful exam preparation *Civil Surveying Sample Exams for the California Special Civil Engineer Examination* Peter R. Boniface, James R. Monroe, 2004 Contains two 50 problem sample exams covering all exam topics Complete solutions are included Nurse Instruction for Civil Service Examinations, Covering Nurse, Trained Nurse, Hospital Nurse, Visiting Nurse, Field Nurse, Tuberculosis Nurse, School Nurse, Nurse's Assistant Civil Service Chronicle, New York, 1916 **Civil Engineering Problems and Solutions** Donald G. Newnan, 2003-09-18 Written by 6 professors each with a Ph D in Civil Engineering A detailed description of the examination and suggestions on how to prepare for it 195 exam essay and multiple choice problems with a total of 510 individual questions A complete 24 problem sample exam A detailed step by step solution for every problem in the book This book may be used as a separate stand alone volume or in conjunction with Civil Engineering License Review 14th Edition 0 79318 546 7 Its chapter topics match those of the License Review book All of the problems have been reproduced for each chapter followed by detailed step by step solutions Similarly the 24 problem sample exam 12 essay and 12 multiple choice problems is given followed by step by step solutions to the exam Engineers looking for a CE PE review with problems and solutions will buy both books Those who want only an elaborate set of exam problems a sample exam and detailed solutions to every problem will purchase this book 100% problems and solutions *Government, New York City, New York State and Federal*, 1916 **Mechanical Engineering Problems and Solutions** Richard K. Pefley, 1997 This volume provides 164 problems with step by step solutions Topics covered Math Force and Stress Analysis Dynamics and Vibrations Machine Design Fluid Mechanics Thermofluid Mechanics Heat Transfer Gas Dynamics and Combustion Hydraulic Machines Power Plants Heating Ventilation and Air Conditioning and Engineering Economics 20% text

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## **Table of Contents Civil Engineering Board Exam Problems Solutions**

1. Understanding the eBook Civil Engineering Board Exam Problems Solutions
  - The Rise of Digital Reading Civil Engineering Board Exam Problems Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Board Exam Problems Solutions
  - 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 Board Exam Problems Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Board Exam Problems Solutions
  - Personalized Recommendations
  - Civil Engineering Board Exam Problems Solutions User Reviews and Ratings
  - Civil Engineering Board Exam Problems Solutions and Bestseller Lists
5. Accessing Civil Engineering Board Exam Problems Solutions Free and Paid eBooks
  - Civil Engineering Board Exam Problems Solutions Public Domain eBooks
  - Civil Engineering Board Exam Problems Solutions eBook Subscription Services
  - Civil Engineering Board Exam Problems Solutions Budget-Friendly Options
6. Navigating Civil Engineering Board Exam Problems Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Civil Engineering Board Exam Problems Solutions Compatibility with Devices
  - Civil Engineering Board Exam Problems Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Civil Engineering Board Exam Problems Solutions
  - Highlighting and Note-Taking Civil Engineering Board Exam Problems Solutions
  - Interactive Elements Civil Engineering Board Exam Problems Solutions
8. Staying Engaged with Civil Engineering Board Exam Problems Solutions

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Civil Engineering Board Exam Problems Solutions
- 9. Balancing eBooks and Physical Books Civil Engineering Board Exam Problems Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Civil Engineering Board Exam Problems Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Civil Engineering Board Exam Problems Solutions
  - Setting Reading Goals Civil Engineering Board Exam Problems Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Civil Engineering Board Exam Problems Solutions
  - Fact-Checking eBook Content of Civil Engineering Board Exam Problems Solutions
  - 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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