

HYDRAULICS & GEOTECHNICAL ENGINEERING
NOVEMBER 2018

1. Given the unit weight of air to be constant at 12 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 kN/m^3 and 0.81 kN/m^3 , respectively. Evaluate the minimum volume of the foam required, in 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 And Solutions

Peter R. Boniface, James R. Monroe



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Table of Contents Civil Engineering Board Exam Problems And Solutions

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

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