

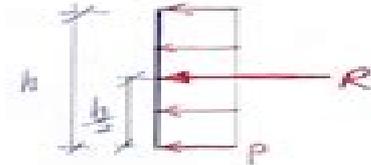
Q1) Determine the resultant force from a flowing river with the following characteristics:

- Velocity of water = 20 ft/s
- Drag coefficient = 1.3

Note: characterize and report the resultant based on water depth (h).

$$P = C_d \gamma_{\text{water}} \left[\frac{v^2}{2g} \right] = 1.3 \times 62.4 \times \frac{20^2}{2 \times 32.2} = 503.9 \text{ psf}$$

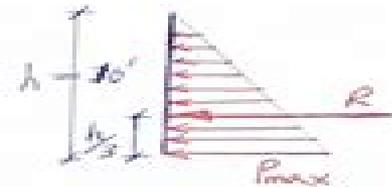
$$\therefore R = P \times h = 503.9h$$



Q2) Determine the resultant force for a 10-ft deep body of water in its static state.

$$P_{\text{max}} = \gamma_{\text{water}} \times h = 62.4 \times 10 = 624 \text{ psf}$$

$$\therefore R = \frac{1}{2} \times P_{\text{max}} \times h = \frac{1}{2} \times 624 \times 10 = 3120 \text{ lbf}$$



Q3) Calculate the resultant force of a 55-mph wind on a 10-ft-high \times 30-ft-wide wall.

Velocity = 55 mph \rightarrow Convert it to wind pressure using the table in M3

$$\frac{60 - 50}{55 - 50} = \frac{9.7 - 6.8}{W - 6.8} \implies W = 8.25 \text{ psf}$$

Resultant for 12" strip = 8.25 psf \times 10 ft = 82.5 lbf of wall

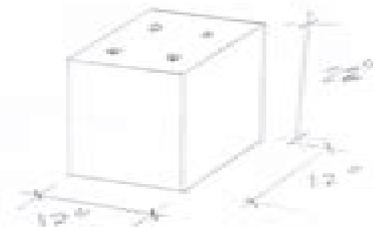
Resultant for entire wall = 82.5 lbf \times 30 ft = 2475 lbs

Q4) Determine gravity load in psf of 22-in-thick reinforced concrete.

$$\begin{aligned} \gamma_{\text{RC}} &= \text{Concrete} + \text{Reinforcement} \\ &= 150 \text{ pcf} + 10 \text{ pcf} = 160 \text{ pcf} \end{aligned}$$

$$\therefore P = 160 \text{ pcf} \times \left(22 \text{ in} \times \frac{1 \text{ ft}}{12 \text{ in}} \right)$$

$$\therefore P = 293.33 \text{ psf}$$



Cven 3525 Structural Engineering 1

William McKenzie



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CVEN 3525, 1999* *Catalog* University of Colorado Boulder, 2006 *Structural Engineering* Pearson Custom Publishing, 1999-07-01 **Structural Engineering SE All-in-One Exam Guide: Breadth and Depth** Dave K. Adams, 2017-03-08 Complete coverage of every objective for the Structural Engineering SE exam Take the 16 hour Structural Engineering SE exam with confidence using this effective self study resource Written by a former member of the NCEES exam development and grading committees Structural Engineering SE All in One Exam Guide Breadth and Depth offers clear explanations real world examples and test preparation strategies A complete practice exam is included containing both multiple choice and essay questions buildings and bridges that are accurate to the format tone and content of the live exam Coverage includes Vertical and lateral components Building and bridge codes Computer modeling and verification Construction administration Structural analysis Reinforced and prestressed concrete design Masonry design Foundation and retaining wall design Structural and cold formed steel design Timber design Seismic analysis and design Wind analysis and design Bridge design *A Practical Course in Advanced Structural Design* Tim Huff, 2021-03-31 A Practical Course in Advanced Structural Design is written from the perspective of a practicing engineer one with over 35 years of experience now working in the academic world who wishes to pass on lessons learned over the course of a structural engineering career The book covers essential topics that will enable beginning structural engineers to gain an advanced understanding prior to entering the workforce as well as topics which may receive little or no attention in a typical undergraduate curriculum For example many new structural engineers are faced with issues regarding estimating collapse loadings during earthquakes and establishing fatigue requirements for cyclic loading but are typically not taught the underlying methodologies for a full understanding Features Advanced practice oriented guidance on structural building and bridge design in a single volume Detailed treatment of earthquake ground motion from multiple specifications ASCE 7 16 ASCE 4 16 ASCE 43 05 AASHTO Details of calculations for the advanced student as well as the practicing structural engineer Practical example problems and numerous photographs from the author s projects throughout A Practical Course in Advanced Structural Design will serve as a useful text for graduate and upper level undergraduate civil engineering students as well as practicing structural engineers

Fundamentals of Structural Engineering Jerome J. Connor, Susan Faraji, 2013-06-03 Fundamentals of Structural Engineering provides a balanced seamless treatment of both classic analytic methods and contemporary computer based techniques for conceptualizing and designing a structure The book s principle goal is to foster an intuitive understanding of structural behavior based on problem solving experience for students of civil engineering and architecture who have been exposed to the basic concepts of engineering mechanics and mechanics of materials Distinct from many undergraduate textbooks which are focused mainly on either teaching manual analysis methods and applying them to simple idealized structures or reformulating structural analysis methods in terms of matrix notation this text instead encourages the student

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