

**SITUATION:**

In a normally consolidated sandy clay deposit, the water table lies at a depth of 4 m. The bulk and saturated unit weights of the soil are:

- Bulk unit weight:  $\gamma = 17 \text{ kN/m}^3$
- Saturated unit weight:  $\gamma_{\text{sat}} = 18.5 \text{ kN/m}^3$
- Effective friction angle:  $\phi' = 30^\circ$

1. Solve for the estimated value of the Poisson's ratio of the soil.

- For normally consolidated soils, an empirical relationship can be used:  $\nu = \frac{1 - \sin \phi'}{2}$  or  $\nu = \frac{1 - \sin(2\phi')}{2} = \frac{1 - 0.5}{2} = 0.25$

Answer: Poisson's ratio  $\nu = 0.25$

2. Solve for the total horizontal stress at 8 m depth assuming it is held by a rigid retaining wall 8 m high. Find also the horizontal force acting on the wall.

- Since the wall is rigid, at-rest condition applies:  $K_0 = 1 - \sin \phi' = 1 - 0.5 = 0.5$
- Total vertical stress at 8 m:
  - For top 4 m:  $\gamma = 17 \text{ kN/m}^3$
  - For bottom 4 m (saturated):  $\gamma_{\text{sat}} = 18.5 \text{ kN/m}^3$   $\sigma_v = (4)(17) + (4)(18.5) = 70 + 74 = 144 \text{ kPa}$
- Horizontal stress:  $\sigma_h = K_0 \cdot \sigma_v = 0.5 \cdot 144 = 72 \text{ kPa}$
- Horizontal force on wall (triangular distribution):  $P = \frac{1}{2} \cdot \sigma_h \cdot H = 0.5 \cdot 72 \cdot 8 = 288 \text{ kN/m}$  (per unit length)

Answer: Horizontal stress = 72 kPa, Horizontal force = 288 kN/m

# Module 6 Answer

**Minjie Lin**



**Module 6 Answer:**

This book delves into Module 6 Answer. Module 6 Answer is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Module 6 Answer, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Module 6 Answer
  - Chapter 2: Essential Elements of Module 6 Answer
  - Chapter 3: Module 6 Answer in Everyday Life
  - Chapter 4: Module 6 Answer in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Module 6 Answer. This chapter will explore what Module 6 Answer is, why Module 6 Answer is vital, and how to effectively learn about Module 6 Answer.
3. In chapter 2, the author will delve into the foundational concepts of Module 6 Answer. This chapter will elucidate the essential principles that must be understood to grasp Module 6 Answer in its entirety.
4. In chapter 3, the author will examine the practical applications of Module 6 Answer in daily life. The third chapter will showcase real-world examples of how Module 6 Answer can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Module 6 Answer in specific contexts. This chapter will explore how Module 6 Answer is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Module 6 Answer. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Module 6 Answer.

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