

**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

**Clemens Wendtner**



**Module 6 Answer:**

## Reviewing **Module 6 Answer**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Module 6 Answer**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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