

### Problem 9.4

Refer to Figure 9.19. Calculate  $\sigma$ ,  $u$ , and  $\sigma'$  at A, B, C, and D for the following case and plot the variations with depth.

Layer 1 :  $H_1 = 4\text{m}$ ,  $e_1 = 0.4$ ,  $G_{s1} = 2.62$

Layer 2 :  $H_2 = 5\text{m}$ ,  $e_2 = 0.6$ ,  $G_{s2} = 2.68$

Layer 3 :  $H_3 = 3\text{m}$ ,  $e_3 = 0.81$ ,  $G_{s3} = 2.73$

( $e$  = void ratio,  $G_s$  = Specific Gravity)

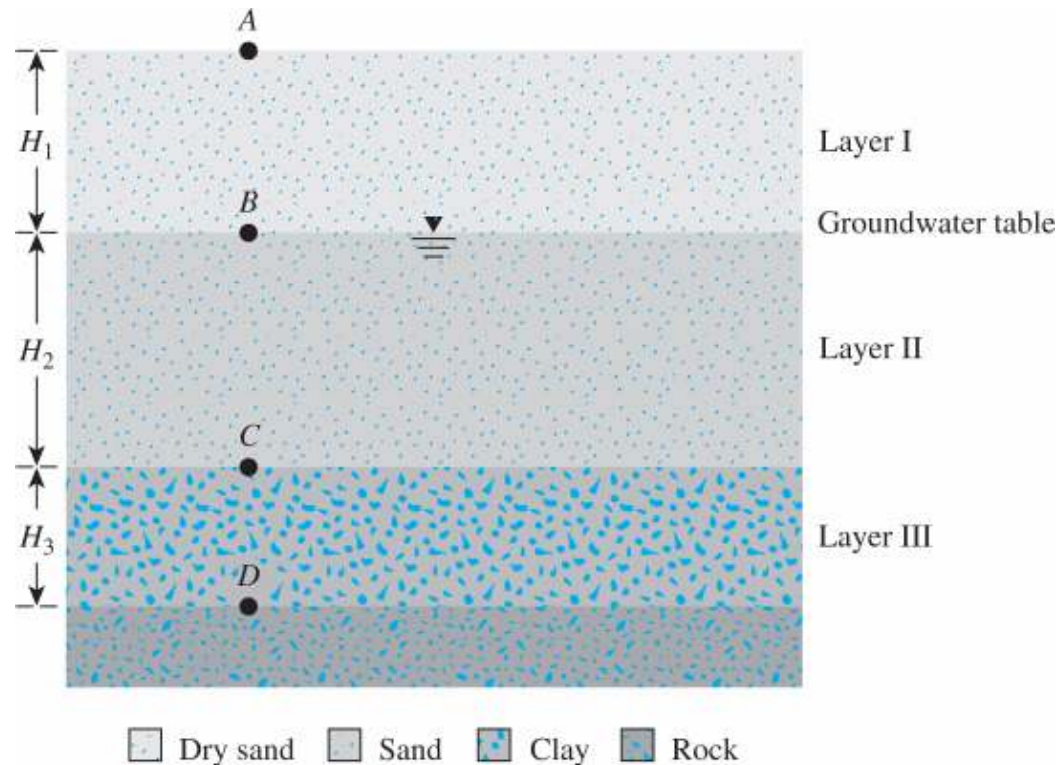
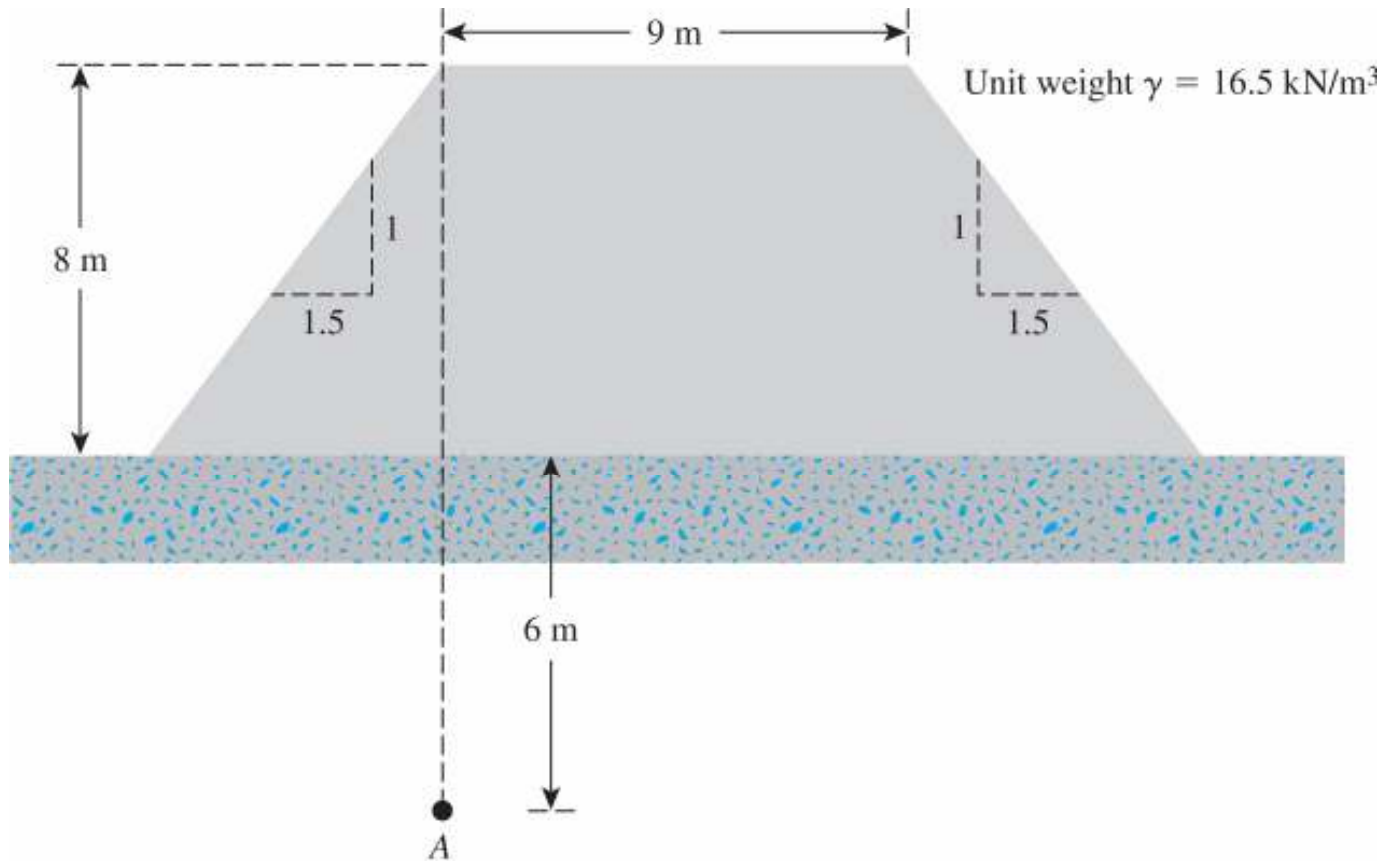


Figure 9.19

Problem 10.14

An earth embankment diagram is shown in Figure 10.39. Determine the stress increase at point A due to the embankment load.



**Figure 10.39**