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off-putting.

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the foundation spreads out with a vertical-to-horizontal slope of 2:1. Now, the values of ( $D_1$  and  $D_2$ ) can be calculated easily as will be seen later. Note: if the foundation is circular the

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value of  $(\Delta\sigma')$  at depth (D) can be determined as following:  $\Delta\sigma H' = P$  Area at depth (D) =  $P \pi v \times (B+D)^2$  P=the load applied on the foundation (KN).

## **Basics of Foundation Engineering with Solved Problems**

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Problem # (17) For the group of friction piles shown; determine the settlement of the clay layers. Solution:  $S = \frac{P' H}{v A L} u_m$   
 $v A =$  Pressure area  $S$  is the settlement of the clay layer  $A \ 1 =$

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Problem # (17) For the group of friction  
piles shown; determine the settlement of  
the clay layers. Solution:  $S = \frac{P}{A} \sum \frac{H_v}{L_u} m_v$   
 $A =$  Pressure area  $S$  is the settlement  
of the clay layer  $A_1 = 0.5 \times (321.4 +$   
 $138.5) \times 1.5 = 345 \text{ kN/m}$ .  $A_2 = 0.5 \times$   
 $(138.5 + 77.0) \times 1.5 = 162 \text{ kN/m}$ .  $A_3$

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Engineering Keywords: solved,  
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