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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 value of (σ_v) at depth (D) can be determined as following: $\sigma_v = P / \text{Area at depth (D)} = P / \pi \times (B+D)^2$ P=the load applied on the foundation (KN).

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SOLVED PROBLEMS IN FOUNDATION ENGINEERING PROF. MOHAMMED AWAD Problem # (17) For the group of friction piles shown; determine the settlement of the clay layers. Solution: $S = P' / H \times A \times L \times u \times m \times v \times A = \text{Pressure area}$ 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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August 28, 2019. 0. Shallow Foundations: Discussions and Problem Solving is written for civil engineers and all civil engineering students taking courses in soil mechanics and geotechnical engineering. It covers the analysis, design and application of shallow foundations, with a primary focus on the interface between the structural elements and underlying soil.

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