Sample Problem 3.1: Shallow foundation design using Terzaghi's bearing capacity theory

As shown in Figure 3.9, a shallow spread footing is designed to support a column (Figure 3.9). The load on the column, including the column weight, is Q = 1000 kN. The foundation rests in homogeneous silty sand. Subsurface exploration and laboratory testing found that the soil's effective cohesion is 25 kN/m^2 and the effective friction angle is 32° . The groundwater table is 1.5 m below the ground surface. The bulk unit weight above the groundwater table is 17.5 kN/m^3 ; the saturated unit weight below the groundwater table is 18.5 kN/m^3 . Determine the foundation embedment and design the dimensions of the spread footing. The factor of safety for bearing capacity is 3.0 Use Terzaghi's bearing capacity theory. Assume general shear failure.

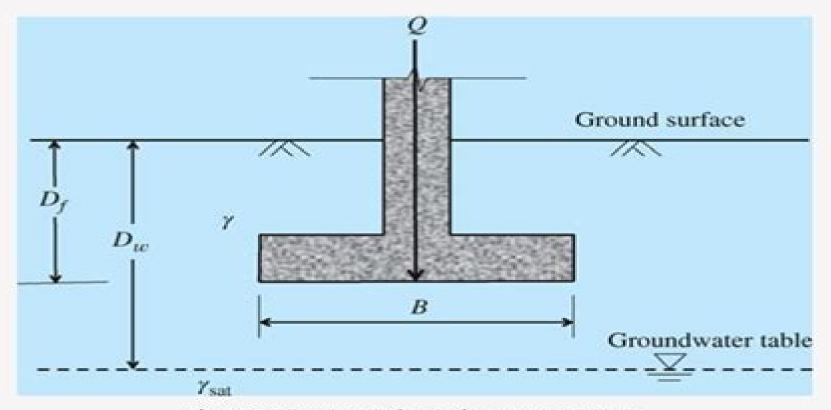


Fig. 3.9 Shallow foundation design sample problem.

Shallow Foundation Problems And Solutions Manual

William Lewis Neill

Shallow Foundation Problems And Solutions Manual:

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