

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 $Q = 1000 \text{ kN}$. 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.

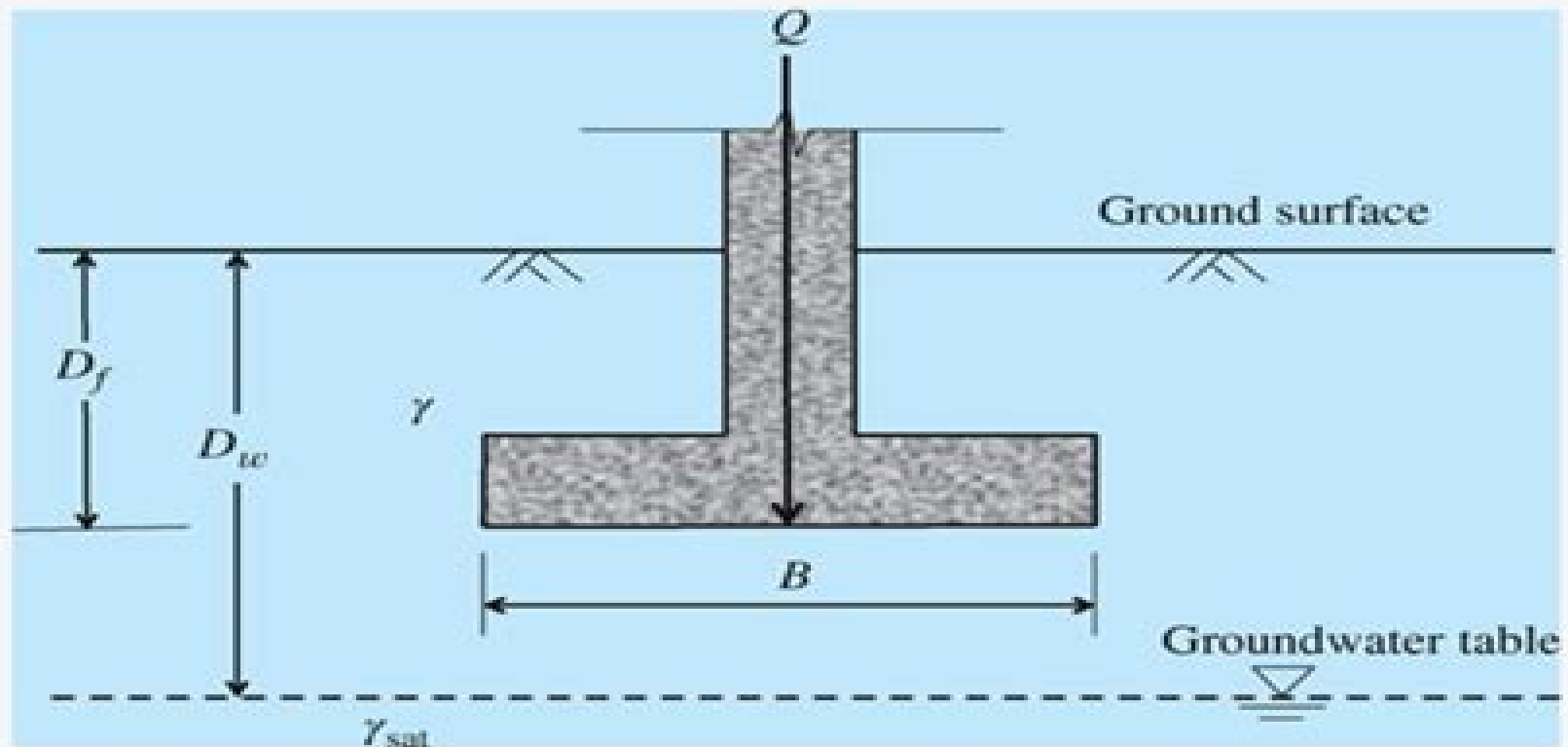


Fig. 3.9 Shallow foundation design sample problem.

Shallow Foundation Problems And Solutions Manual

Christian Drosten



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