

### 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  $25 \text{ kN/m}^2$  and the effective friction angle is  $32^\circ$ . The groundwater table is  $1.5 \text{ m}$  below the ground surface. The bulk unit weight above the groundwater table is  $17.5 \text{ kN/m}^3$ ; the saturated unit weight below the groundwater table is  $18.5 \text{ kN/m}^3$ . 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.

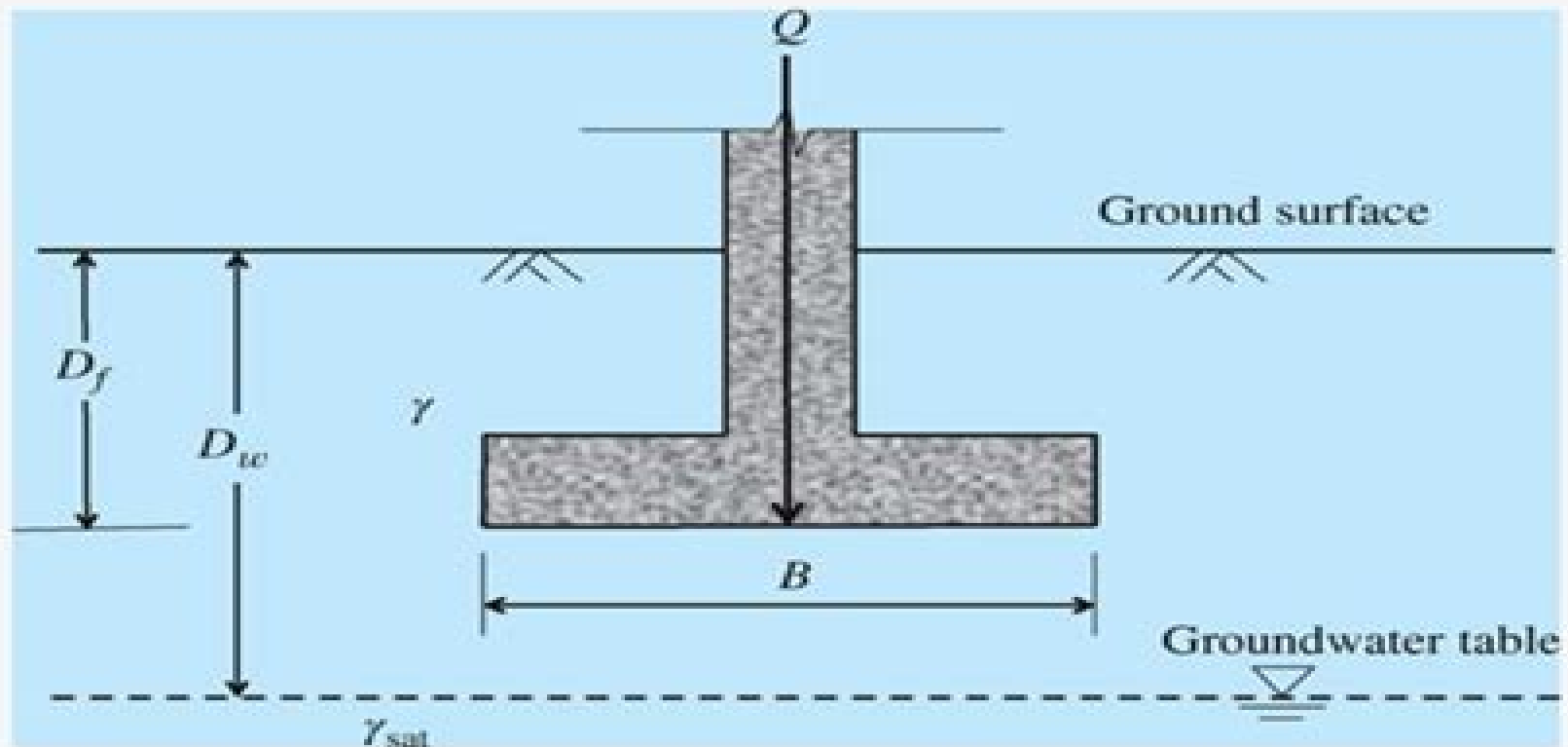


Fig. 3.9 Shallow foundation design sample problem.

# Shallow Foundation Problems And Solutions Manual

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