

## Foundation Engineering

- Structural Foundations are the substructure elements which transmit the structural load to the earth in such a way, that the supporting soil is not over-stressed and not undergo deformations that would cause excessive settlement of the structure.
- Hence the properties of the supporting soil must be expected to affect the choice of type of structural foundation suitable for the structure.
- The failure of foundation will be due to
  - (i) settlement of soil / foundation.  
(It is called as settlement failure)
  - (ii) sliding / slipping of soil / foundation.  
(It is called as shear failure)
- The foundation should be safe in shear criteria and settlement criteria.

### Types of foundation :-



#### SHALLOW FOUNDATION

#### DEEP FOUNDATION

→ Terzaghi,  $\frac{D_f}{B} \leq 1$

(a) Terzaghi,  $\frac{D_f}{B} > 1$

→ carries the load due to Base Resistance

→ carries load due to Side as well as base resistance

#### SHALLOW FOUNDATION

#### RAFT / MAT

#### FOOTING

#### ISOLATED

#### COMBINED STRIP STRAP SPREAD

Souvik

2 SQUARE

CIRCULAR

RECTANGULAR

RECTANGULAR TRAPEZOIDAL

# Lecture Notes On Foundation Engineering

**Lei Shi**



## **Lecture Notes On Foundation Engineering:**

## Decoding **Lecture Notes On Foundation Engineering**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lecture Notes On Foundation Engineering**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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