



Foundation Design in Practice

Karuna Moy Ghosh

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The behaviour of foundation is closely interlinked with the behaviour of soil supporting it. This book develops a clear understanding of the soil parameters, bearing capacity, settlement and deformation, and describes the practical methods of designing structural foundations.

The book analyses the various types of foundations, namely isolated footing, strip foundation and raft foundation, and their structural design. It discusses piled foundation, the types and behaviour of piles in various soils (cohesive and cohesionless), and their bearing capacity. The book also includes the analysis, design and construction of diaphragm wall foundation used in highway and railway tunnels, multi-storey basement and underground metro stations. In addition, it includes the analysis and design of sheet piling foundation, retaining wall and bridge pier foundation.

KEY FEATURES

- Demonstrates both BS codes of practice and Eurocodes to analyse soil and structural design of foundations and compares the results
- Includes a number of examples on foundations
- Provides structural design calculations with step-by-step procedures
- Gives sufficient numbers of relevant sketches, figures and tables to reinforce the concepts

This book is suitable for the senior undergraduate students of civil engineering and postgraduate students specializing in geotechnical engineering. Besides, practising engineers will also find this book useful.

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