This book presents the basic principles involved in analysis and design in the field of Geotechnical and Foundation Engineering written in a simple manner. The subject matter is characterized by comprehensive as well as methodical, easy-to-follow style and canvassed along with theory, variety of examples and useful tables. Each topic of the book has been arranged in such a way that reader is empowered with an in-depth knowledge of the subject. Latest Codes of Indian Standards have been applied for solving the problems.

The outline of the book is as mentioned below:

1. INTRODUCTION
2. BASIC TERMINOLOGY AND INTERRELATIONS
3. INDEX PROPERTIES OF SOILS AND CLASSIFICATION TESTS
4. CLASSIFICATION OF SOILS
5. CLAY MINERALOGY AND SOIL STRUCTURES
6. EFFECTIVE STRESS, CAPILLARITY AND PERMEABILITY
7. SEEPAGE THROUGH SOILS
8. STRESS DISTRIBUTION IN SOILS DUE TO SURFACE LOADS
9. SOIL COMPACTION
10. SHEAR STRENGTH OF SOILS
11. ARCHING IN SOILS AND BRACED CUTS
12. LATERAL EARTH PRESSURE
13. STABILITY OF SLOPES
14. COMPRESSIBILITY OF SOILS AND CONSOLIDATION
15. SHALLOW FOUNDATIONS AND BEARING CAPACITY
16. PILE FOUNDATION
17. WELL FOUNDATIONS
18. FLEXIBLE RETAINING STRUCTURES AND COFFERDAMS
19. GEOSYNTHETICS: APPLICATION AND DESIGN
20. LABORATORY EXPERIMENTS AND FIELD EQUIPMENT

Salient features of the book:
- 384 Neatly drawn self explanatory sketches
- 135 Useful tables
- 165 Typical solved examples
- 151 Questions at the end of the chapters
- 19 Laboratory experiments.

The book in the present form will prove to be extremely useful to the students preparing for the Degree examinations in Civil Engineering and Architecture of all the Indian Universities, Diploma examinations conducted by various Boards of Technical Education, Certificate Courses as well as for the A.M.I.E., U.P.S.C., G.A.T.E., I.E.S., and other similar competitive and professional examinations. It should also be an immense use to practicing Civil Engineers.
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