



Soil Mechanics and Foundation Engineering

Utsav Chandra Kalita

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Designed for the undergraduate students of civil engineering, this textbook covers the theoretical aspects of soil mechanics and foundation engineering in a single volume.

The text is organized in two parts—Part I (Soil mechanics) and Part II (Foundation engineering): Part I includes the basic properties and strength of soil, vertical and lateral pressures, discussion on earthen dam, sheet piles, and stability analysis for hill slope in connection with hill road construction. Part II discusses shallow and deep foundations, approaches of analysis of machine foundation, and various methods of determining the bearing capacity of soil. A separate chapter is devoted to on-site investigation.

Besides the undergraduate students, this compendium will also be useful for students appearing for various competitive examinations such as GATE, IES and IAS. Consulting engineers in geotechnical engineering may also use this book as a reference.

KEY FEATURES

- Includes numerical problems (with solutions) in connection with construction of dams and highways in hilly region
- Figures and explanations to facilitate professionals and designers of machine foundation to solve the complex problem of stability analysis
- Objective-type questions to aid in UPSC examinations

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