

Geotechnical Engineering



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Established as a standard textbook for students of geotechnical engineering, this new edition of "Geotechnical Engineering" provides a solid grounding in the mechanics of soils and soil-structure interaction. Renato Lancellotta gives a clear presentation of the fundamental principles of soil mechanics and demonstrates how these principles are applied in practice to engineering problems and geotechnical design. This is supported by numerous examples with worked solutions, clear summaries and extensive further reading lists throughout the book. Thorough coverage is given to all classic soil mechanics topics such as boundary value problems and serviceability of structures and to topics which are often missed out of other books or covered more briefly including: the principles of continuum mechanics, Critical State Theory and innovative techniques such as seismic methods. It is suitable for soil mechanics modules on undergraduate civil engineering courses and for use as a core text for specialist graduate geotechnical engineering students. It explores not only the basics but also several advanced aspects of soil behaviour, and outlines principles which underpin more advanced professional work therefore providing a useful reference work for practising engineers. Readers gain a good grasp of applied mechanics, testing and experimentation, and methods for observing real structures.

作者介绍:

目录:

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