



Principles and Practice of Ground Improvement

By Jie Han

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Gain a stronger foundation with optimal ground improvement

Before you break ground on a new structure, you need to analyze the structure of the ground. Expert analysis and optimization of the geo-materials on your site can mean the difference between a lasting structure and a school in a sinkhole. Sometimes problematic geology is expected because of the location, but other times it's only unearthed once construction has begun. You need to be able to quickly adapt your project plan to include an improvement to unfavorable ground before the project can safely continue.

Principles and Practice of Ground Improvement is the only comprehensive, up-to-date compendium of solutions to this critical aspect of civil engineering. Dr. Jie Han, registered Professional Engineer and preeminent voice in geotechnical engineering, is the ultimate guide to the methods and best practices of ground improvement. Han walks you through various ground improvement solutions and provides theoretical and practical advice for determining which technique fits each situation.

- Follow examples to find solutions to complex problems
- Complete homework problems to tackle issues that present themselves in the field
- Study design procedures for each technique to simplify field implementation
- Brush up on modern ground improvement technologies to keep abreast of all available options

Principles and Practice of Ground Improvement can be used as a textbook, and includes Powerpoint slides for instructors. It's also a handy field reference for contractors and installers who actually implement plans. There are many ground improvement solutions out there, but there is no single right answer to every situation. *Principles and Practice of Ground Improvement* will give you the information you need to analyze the problem, then design and implement the best possible solution.

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Principles and Practice of Ground Improvement By Jie Han Bibliography

- Sales Rank: #1104437 in Books
- Published on: 2015-06-22
- Original language: English
- Number of items: 1
- Dimensions: 11.20" h x 1.10" w x 8.80" l, .0 pounds
- Binding: Hardcover
- 432 pages

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Editorial Review

From the Back Cover

PRACTICAL GROUND IMPROVEMENT WITH THE LATEST TECHNOLOGY

Principles and Practice of Ground Improvement presents the latest, most up-to-date information on industry technologies, with thorough exploration of both the theoretical and practical aspects of ground improvement. Detailed design procedures and examples facilitate easy implementation, and deep discussion of the applicability, advantages, and limitations of each method helps you make decisions from a more informed perspective. You'll gain insight into the principles behind commonly used ground improvement methods, along with construction details and quality control and assurance techniques that help ensure a successful solution.

Ground improvement enhances public infrastructure safety, and this book provides the understanding that stands between a successful and economical resolution and potential catastrophe.

- Review the basics of geotechnical engineering as applied to the problems of ground improvement
- Understand the properties of different geomaterials, and the testing and design approaches that best apply
- Discover solutions to the challenges posed by compaction and replacement scenarios
- Learn the important factors to consider when planning a drainage or dewatering project
- Examine the various applications of in-situ and fill reinforcement, and the problems that can arise
- Know the process of chemical stabilization by deep mixing or grouting and possible environmental impacts

Principles and Practice of Ground Improvement is a complete, authoritative reference to the latest in the field, with the insight of an internationally recognized expert.

About the Author

Dr. JIE HAN is a professor of Geotechnical Engineering at the Department of Civil, Environmental, & Architectural Engineering at the University of Kansas. He is a Fellow of the American Society of Civil Engineers (ASCE), a registered Professional Engineer in Georgia, a member of a number of technical committees and boards, and the author of more than 200 papers published in journals and conference proceedings.

Users Review

From reader reviews:

Willie Collier:

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Jordan Moore:

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Brent Whitty:

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Christopher Walker:

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