

Ground Improvement Case Histories: Solving Geotechnical Challenges



Ground Improvement: Case Histories (Elsevier Geo-Engineering Book Book 3) by Matt Jones

★★★★☆ 4.2 out of 5

Language : English

File size : 26551 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Word Wise : Enabled

Print length : 608 pages



Ground improvement is a critical aspect of geotechnical engineering, involving the modification of soil properties to enhance its strength, stability, and overall performance. Ground Improvement Case Histories provides a comprehensive collection of real-world case studies that illustrate the successful application of various ground improvement techniques to address challenging geotechnical conditions.

This book is an invaluable resource for geotechnical engineers, contractors, and researchers involved in the design and implementation of ground improvement projects. It offers insights into the practical application of different techniques, including:

- Deep foundations (piles, piers, caissons)
- Soil stabilization (grouting, jet grouting, soil mixing)

- Dewatering and drainage systems
- Reinforcement (geosynthetics, soil nailing)

Key Features of Ground Improvement Case Histories:

- **Over 100 case studies** from around the world, covering a wide range of geotechnical challenges
- **Detailed descriptions** of the ground improvement techniques used, including design parameters and construction methods
- **Performance evaluations** of the ground improvement measures, based on field monitoring and laboratory testing
- **Lessons learned** from each case study, highlighting best practices and potential pitfalls

Benefits of Ground Improvement Case Histories:

- Gain practical knowledge of ground improvement techniques and their applications
- Identify the most suitable ground improvement techniques for specific geotechnical conditions
- Learn from the successes and failures of past projects to optimize your own designs
- Stay up-to-date with the latest advancements in ground improvement technology

Ground Improvement Case Histories is an essential reference for:

- Geotechnical engineers

- Civil engineers
- Foundation engineers
- Contractors
- Researchers

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: 978-0-12-821406-4

Praise for Ground Improvement Case Histories:

"Ground Improvement Case Histories is a valuable resource for geotechnical engineers, providing a comprehensive overview of the theory and practice of ground improvement techniques. The case studies are well-written and provide valuable insights into the successful application of these techniques." - **Dr. John Mitchell, Professor of Geotechnical Engineering, University of California, Berkeley**

"Ground Improvement Case Histories is a must-have for practitioners and researchers involved in ground improvement projects. The case studies are detailed and informative, offering valuable lessons learned from real-world projects." - **Dr. David Zhang, Senior Geotechnical Engineer, AECOM**

Alt attribute for image: Ground Improvement Case Histories book cover featuring a photo of a construction site with heavy machinery working on soil stabilization

****SEO title:**** Solve Geotechnical Challenges with Ground Improvement Case Histories



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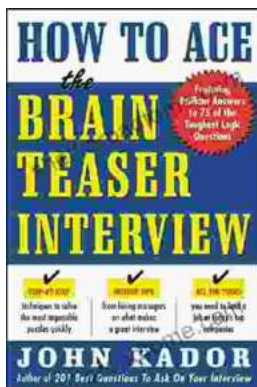
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