

Ground Improvement Case-Histories, 1st Edition: Embankments with Special Reference to Consolidation and Other Physical Methods

Authors: Buddhima Indraratna, Jian Chu & Cholachat Rujikiatkamjorn

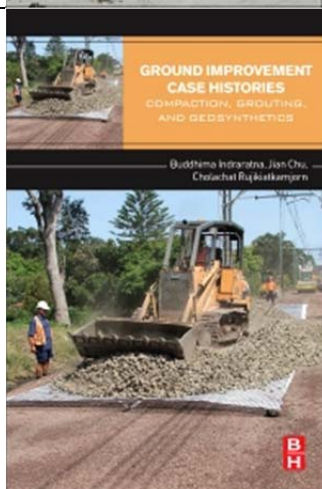
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The most up-to-date reference available offers both state-of-the-art and traditional technologies along with cost-effective solutions in the format of case histories. Ground Improvement Case Histories: Embankments with Special Reference to Soil Consolidation and Other Physical Methods provides engineers and researchers with a wide range of international geotechnical engineering and construction case histories used to improve soils in situ and to rehabilitate foundations.

- Includes a wide range of case histories for Physical methods such as Preloading, Vertical Drains, Vacuum Application, as well as Sand and Gravel Piles, Stone Columns, and Other Rigid Inclusions
- Features 26 chapters covering over 800 pages of case histories supported by an abundance of illustrations and solutions



Ground Improvement Case Histories, 1st Edition: Compaction, Grouting and Geosynthetics

Authors: Buddhima Indraratna, Jian Chu & Cholachat Rujikiatkamjorn

ISBN : 9780081006986

Pages: 796

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The real-life projects are more complicated than laboratory simulations. Researchers and Engineers need field data to calibrate and validate their computational models. Ground Improvement Case Histories: Compaction, Grouting, and Geosynthetics offers elaborate descriptions of real-life studies, field data, and first-hand observations based on the practical aspects of the design and construction procedures, as well as the effectiveness of soil treatment deployed worldwide.

- Comprehensive analysis methods using numerical modelling methods
- Features 26 chapters covering over 700 pages of contributor generated case histories from all over the world.
- Offers field data and clear observations based on the practical aspects of the construction procedures and treatment effectiveness



Ground Improvement Case Histories, 1st Edition: Chemical, Electrokinetic, Thermal and Bioengineering

Authors: Buddhima Indraratna, Jian Chu & Cholachat Rujikiatkamjorn

ISBN : 9780081001912

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Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal, and Bioengineering Methods provides a full range of Chemical and Bioengineering ground improvement techniques; the principles behind how the techniques “work”, for which soils they are appropriate and how they are installed or constructed. Where relevant, the principles of design or construction procedures are introduced. The specific technology followed by applications, and in some cases comprehensive back analysis through numerical modelling is included.

- Case histories include Effect of Drainage and Grouting for the World Longest Seikan Undersea Tunnel Construction, Cement/lime Mixing Ground Improvement for Road Construction on Soft Ground
- Features 22 chapters covering over 700 pages of international case histories supported by an abundance of illustrations and worked out equations