



Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering

By Buddhima Indraratna, Jian Chu, Chalachat Rujikiatkamjorn

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Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering By Buddhima Indraratna, Jian Chu, Chalachat Rujikiatkamjorn

Written by an international group of experts, **Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering Methods** provides over 700 pages of case-histories collected from all over the world. Each case-history provides an overview of the specific technology followed by applications, and in some cases, comprehensive back analysis through numerical modelling is discussed. The book includes methods for employing bacterial and biological treatment, and native vegetation for stabilizing problematic soils. Specific case-histories included in the book are: Effect of Drainage and Grouting for the World Longest Seikan Undersea Tunnel Construction, Cement/lime Mixing Ground Improvement for Road Construction on Soft Ground, Use of Jet Grouting in Deep Excavations, and Stabilization of Reactive Sulphide Mine Tailings using Water Cover Technology.

- Provides recent case histories using chemical and bio-engineering methods by world-renowned engineering experts
- Includes over 200 illustrations and 150 equations from relevant topics, including state-of-the-art chemical and bioengineering methods
- Presents comprehensive analysis methods using numerical modelling methods
- Case histories include the "Effect of Drainage and Grouting on the World's Longest Seikan Undersea Tunnel Construction" and "Cement/Lime Mixing Ground Improvement for Road Construction on Soft Ground"

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- Rank: #2564554 in Books
- Published on: 2015-06-05
- Released on: 2015-05-22
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.63" w x 6.00" l, 2.50 pounds
- Binding: Paperback
- 724 pages

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Editorial Review

From the Back Cover

Ground Improvement Case Histories

Chemical, Electrokinetic, Thermal and Bioengineering Methods

Buddhima Indraratna, Professor Jian J Chu, and Cholachat Rujikiatkamjorn

The most up-to-date reference that offers both state-of-the-art and traditional technologies along with cost-effective solutions in the format of case histories.

- 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

Chemical, Electrokinetic, Thermal and Bioengineering Methods provides a full range of Chemical, Electrokinetic, Thermal 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.

Written by an international group of experts, **this Book** provides over 700 pages of case-histories collected from all over the world. Each case-history provides an overview of the specific technology followed by applications, and in some cases, comprehensive back analysis through numerical modelling is discussed. The book includes methods for employing bacterial and biological treatment, and native vegetation for stabilizing problematic soils. Specific case-histories included in the book are: Effect of Drainage and Grouting for the World Longest Seikan Undersea Tunnel Construction, Cement/lime Mixing Ground Improvement for Road Construction on Soft Ground, Use of Jet Grouting in Deep Excavations, and Stabilization of Reactive Sulphide Mine Tailings using Water Cover Technology.

About the Author

Professor Indraratna is the author of more than 500 publications, including 6 books, about 200 journal papers and 50 invited keynote and plenary lectures. His contributions through research and development towards the understanding of soft soil improvement have been incorporated by numerous organizations into their engineering practices for the design of rail and road embankments.

Dr. Chu is a professor and the holder of James M. Hoover Chair in Geotechnical Engineering at the Iowa State University, USA. Before he joined Iowa State, he was the Director of the Centre for Infrastructure

Systems at Nanyang Technological University, Singapore. He has been actively engaged in teaching, research and consulting work in geotechnical engineering in general and soil properties, in-situ and laboratory testing, soil improvement and land reclamation in particular for more than 20 years.

Dr Cholachat Rujikiatkamjorn is an Associate Professor with broad knowledge in soft clay engineering through his work in China, Thailand and Australia. His contributions to the field have also been recognized by several internal UOW, national and international awards, including the 2013 ISSMGE Young Member Award for academic achievements and outstanding contributions to the field of geotechnical engineering. He has published over 120 articles in international journals and conferences.

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