



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

By Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn

Download now

Read Online 

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

 [Download Ground Improvement Case Histories: Chemical, Elect ...pdf](#)

 [Read Online Ground Improvement Case Histories: Chemical, Ele ...pdf](#)

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

By Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn

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

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

- 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



[Download Ground Improvement Case Histories: Chemical, Elect ...pdf](#)



[Read Online Ground Improvement Case Histories: Chemical, Ele ...pdf](#)

Download and Read Free Online Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering By Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn

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 Rujikitkamjorn 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.

Users Review

From reader reviews:

Dennis Fleenor:

The book Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering make one feel enjoy for your spare time. You may use to make your capable considerably more increase. Book can be your best friend when you getting tension or having big problem with your subject. If you can make examining a book Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering to be your habit, you can get far more advantages, like add your current capable, increase your knowledge about a few or all subjects. You are able to know everything if you like open up and read a publication Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering. Kinds of book are several. It means that, science publication or encyclopedia or other people. So , how do you think about this book?

John Honeycutt:

As people who live in typically the modest era should be upgrade about what going on or info even knowledge to make these keep up with the era and that is always change and make progress. Some of you maybe may update themselves by reading through books. It is a good choice to suit your needs but the problems coming to an individual is you don't know which you should start with. This Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering is our recommendation so you keep up with the world. Why, as this book serves what you want and need in this era.

Trudy Clark:

Reading a book to be new life style in this calendar year; every people loves to study a book. When you read a book you can get a great deal of benefit. When you read publications, you can improve your knowledge, simply because book has a lot of information on it. The information that you will get depend on what forms of book that you have read. If you wish to get information about your research, you can read education books, but if you want to entertain yourself you can read a fiction books, this kind of us novel, comics, as well as soon. The Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering provide you with a new experience in reading a book.

Donald Warren:

Don't be worry for anyone who is afraid that this book will certainly filled the space in your house, you could have it in e-book method, more simple and reachable. This Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering can give you a lot of pals because by you looking at this one book you have factor that they don't and make anyone more like an interesting person. This particular book can be one of a step for you to get success. This reserve offer you information that might be your friend doesn't understand, by knowing more than additional make you to be great men and women. So , why hesitate? Let me have Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering.

**Download and Read Online Ground Improvement Case Histories:
Chemical, Electrokinetic, Thermal and Bioengineering By
Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn
#Q5MVNLUFWJY**

Read Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering By Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn for online ebook

Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering By Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering By Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn books to read online.

Online Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering By Buddhima Indraratna, Jian Chu, Cholachat Rujikiatkamjorn ebook PDF download

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

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

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