Ground Improvement Case-Histories

Description: Written by a group of international contributors, Ground Improvement Case Histories: Embankments with Special Reference to Soil Consolidation and Other Physical Methods, employs the use of case-histories to illustrate and apply equations, numerical methods and technology to undertake even the most complicated ground improvement projects. In this book, each case-history provides an overview of the specific technology followed by field applications and in some cases comprehensive back-analysis through numerical modelling. Specific embankment case-histories with special reference to soil consolidation included are: Ballina Bypass (Australia), Tianjin Port (China), Second Bangkok International Airport (Thailand), Changi East reclamation (Singapore), Maizuru-Wakasa Expressway (Japan) and Colombo Airport Expressway, Sri Lanka. Other physical methods include performance of stone columns at Penny's Bay reclamation in Hong Kong and PCC piles for highway and high-speed railway construction in China, among others.

Provides a wealth of contributor-generated case histories from all over the world

Includes an abundance of illustrations and worked out examples

All inclusive discussion of preloading, vertical drains and vacuums applications

Features case-histories regarding sand and gravel piles, stone columns and other Rigid Inclusions

Contents: Part One: Preloading, Vertical Drains and Vacuum Application (15 Chapters)

Chapter 1: Recent advances in soft soil consolidation

Chapter 2: Experience of consolidation process from test areas with and without vertical drains

Chapter 3: Theoretical and Numerical Perspectives and Field Observations for the Design and Performance Evaluation of Embankments Constructed on Soft Marine Clay

Chapter 4: Application of the vacuum preloading method in soil improvement projects

Chapter 5: Two case histories of vertical drains in very soft clays

Chapter 6: Case Study of Ground Improvement Work at the Suvarnabhumi Airport of Thailand

Chapter 7: Predictions and Observations of Soft Clay Foundations Stabilized with Geosynthetic Drains and Vacuum Surcharge

Chapter 8: Application of Analytical Method for Preloading Design of Selected Case Studies

Chapter 9: The Changi East Reclamation Project in Singapore

Chapter 10: High vacuum pressure for vacuum consolidation method by using air-water separation system

Chapter 11: Case studies of vacuum consolidation ground improvement in peat deposits

Chapter 12: Interpretation of penetration resistance data associated with PVD installation for predicting differential settlement in soft ground

Chapter 13: On the prediction of time-dependent behaviour of embankments on soft soils: effects of preloading, surcharging and the choice of lab versus field test data for soft soil parameters

Chapter 14: Application of a new vacuum preloading method in tideland reclamation in Wenzhou, China

Chapter 15: Key Issues in the Application of Vertical Drains to a Sea Reclamation by Extremely Soft Clay
Slurry

Part Two: Sand and Gravel Piles, Stone Columns and Other Rigid Inclusions (11 Chapters)

Chapter 16: Performance of soft clays reinforced by floating columns
Chapter 17: Geotextile Encased Columns (GEC): Case Studies over Twenty Years
Chapter 18: New Analytical Approach for Predicting Horizontal Displacement of Stone Columns
Chapter 19: Settlement Behaviour of Embankment on Soft Ground Treated with Stepped Rigid Columns
Chapter 20: Pullout resistance of grouted soil nails
Chapter 21: Improvement of soft soil formations by drilled displacement columns
Chapter 22: Applications of PCC piles for highway and high-speed railway construction in China
Chapter 23: Implementation and Performance of Stone Columns at Penny's Bay Reclamation in Hong Kong
Chapter 24: Failures of Ground Improvement Works in Soft Ground
Chapter 25: Characteristics of Soft Peats, Organic Soils and Clays, Colombo-Katunayake Expressway, Sri Lanka
Chapter 26: Theoretical and Numerical Perspectives on Performance of Stone Column Improved Soft Ground with Reference to Transport Infrastructure

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