Record Nr. UNINA9910453293503321 Autore Almeida Marcio (Marcio S. S.) Titolo Design and performance of embankments on very soft soils // Marcio de Souza S. Almeida, Graduate School of Engineering, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, Maria Esther Soares Margues, Department of Fortification and Construction Engineering, Military Institute of Engineering, Rio de Janeiro, Brazil Pubbl/distr/stampa Boca Raton:,: CRC Press,, [2013] ©2013 **ISBN** 1-138-07693-7 0-429-17447-0 1-62870-743-7 0-203-65779-9 Descrizione fisica 1 online resource (227 p.) Disciplina 624.15136 Soggetti Soil stabilization Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Front Cover; Table of contents; Preface; About the authors; Acknowledgements; List of symbols; Introduction; 1. Construction methods of embankments on soft soils; 2. Site investigation; 3. Geotechnical properties of very soft soils: Rio de Janeiro soft clays; 4. Prediction of settlements and horizontal displacements; 5. Acceleration of settlements: use of vertical drains and surcharge; 6. Stability of unreinforced and reinforced embankments; 7. Embankments on pilelike elements; 8. Monitoring embankments on soft soils; References; Annex Sommario/riassunto Embankment construction projects on very soft soil often give rise to serious problems. This volume on geotechnics and soft soil engineering therefore treats all phases of the design and construction process exhaustively, from the first investigation step to the monitoring of

constructed work. The book presents the development concepts necessary for the project stages and discusses in great detail

construction methods, displacement estimations, stability analyses, monitoring, and various other aspects involved. Extensive attention is furthermore paid to the application of geosynthetics as a to