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Sommario/riassunto

Soil Reinforcement for Anchor Plates and Uplift Response presents a comprehensive and rigorous review of the current knowledge in soil improvement for anchor plates, and is based on original research that includes experimental data on how to enhance uplift response of soil anchor plates by using several soil reinforcement methods. Divided into 6 chapters, the author makes an introduction to both Ancho Plates and Soil Reinforcement in chapter one, then providing a comprehensive literature review on the topic in chapter 2. Chapter 3 presents how the experiment was set up, the different types of geotextiles used, and the types of soil tested. Chapter 4 presents experimental data, along with data provided by simulation softwares, including Plaxis. Chapter 5 compares the experimental results to the numerical simulation data, providing researchers and geotechnical engineers with tools they can apply to their own projects. In chapter 6, the author presents his conclusions and recommendations on the usage of soil reinforcement to maximize uplift response to anchor plates. Researchers in geotechnical engineering can use the methods and experimental data presented in the book on their own projects, and practicing engineers will benefit from the comparisons between experimental and simulation data provided to make appropriate selection of soil reinforcement techniques that can be applied to their projects. Presents techniques

for improving uplift response by 40% or more Discusses the uplift capacity of symmetrical anchor plates in several scenarios Provides a complete review of soil reinforcement for anchor plates Includes numerical analyses methods for validating experimental test results