Transportation Geotechnics and Pavement Engineering: A Comprehensive Guide

Transportation geotechnics and pavement engineering are two closely related fields that play a vital role in the design, construction, and maintenance of our transportation infrastructure. Transportation geotechnics deals with the study of the soil and rock conditions beneath roads, bridges, and other transportation structures. Pavement engineering focuses on the design and construction of pavements, which are the surfaces that vehicles travel on.



Proceedings of GeoShanghai 2024 International Conference: Transportation Geotechnics and Pavement Engineering

★★★★★ 5 out of 5

Language : English

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Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting: Enabled

Word Wise : Enabled

Print length : 755 pages



This book provides a comprehensive overview of both transportation geotechnics and pavement engineering. It is written by two renowned experts in the field, and it covers a wide range of topics, including:

* Soil mechanics * Pavement design * Construction techniques * Maintenance and rehabilitation strategies

This book is an essential resource for anyone who is involved in the design, construction, or maintenance of transportation infrastructure. It is also a valuable reference for students and researchers who are interested in learning more about the field.

Chapter 1: Soil Mechanics

The first chapter of this book provides a thorough overview of soil mechanics. It covers the following topics:

* Soil properties * Soil classification * Soil testing * Soil strength and deformation * Soil stability

This chapter is essential for understanding the behavior of soils beneath transportation structures. It provides the foundation for the rest of the book.

Chapter 2: Pavement Design

The second chapter of this book focuses on pavement design. It covers the following topics:

* Pavement types * Pavement materials * Pavement design methods * Pavement performance

This chapter provides the information needed to design pavements that are safe, durable, and cost-effective.

Chapter 3: Construction Techniques

The third chapter of this book covers construction techniques for transportation structures. It includes the following topics:

* Earthwork construction * Pavement construction * Bridge construction * Tunnel construction

This chapter provides the information needed to construct transportation structures that are safe, durable, and cost-effective.

Chapter 4: Maintenance and Rehabilitation Strategies

The fourth chapter of this book focuses on maintenance and rehabilitation strategies for transportation structures. It covers the following topics:

* Pavement maintenance * Pavement rehabilitation * Bridge maintenance * Bridge rehabilitation

This chapter provides the information needed to maintain and rehabilitate transportation structures so that they continue to perform safely and efficiently.

This book is a comprehensive guide to transportation geotechnics and pavement engineering. It is written by two renowned experts in the field, and it covers a wide range of topics. This book is an essential resource for anyone who is involved in the design, construction, or maintenance of transportation infrastructure. It is also a valuable reference for students and researchers who are interested in learning more about the field.

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