Geotechnics for Sustainable Infrastructure Development

This book provides a comprehensive overview of geotechnics for sustainable infrastructure development. It covers topics such as soil mechanics, foundation engineering, and geotechnical earthquake engineering. The book is written by a team of experts in the field and is essential reading for anyone involved in the design and construction of sustainable infrastructure.

Geotechnics for Sustainable Infrastructure Development (Lecture Notes in Civil Engineering Book 62) by Gabrielle Walker

4 out of 5

Language	: English
File size	: 244018 KB
Screen Reader	: Supported
Print length	: 1444 pages

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Chapter 1:

This chapter provides an overview of geotechnics and its role in sustainable infrastructure development. It discusses the importance of geotechnics in ensuring the safety and stability of infrastructure, as well as its role in reducing the environmental impact of infrastructure development.

Chapter 2: Soil Mechanics

This chapter covers the basic principles of soil mechanics. It discusses the different types of soils, their properties, and their behavior under load. This knowledge is essential for the design of foundations and other geotechnical structures.

Chapter 3: Foundation Engineering

This chapter covers the principles of foundation engineering. It discusses the different types of foundations, their design, and their construction. This knowledge is essential for the design and construction of safe and stable structures.

Chapter 4: Geotechnical Earthquake Engineering

This chapter covers the principles of geotechnical earthquake engineering. It discusses the effects of earthquakes on soils and structures, and the design of structures to resist earthquakes. This knowledge is essential for the design and construction of structures in earthquake-prone areas.

Chapter 5: Case Studies

This chapter presents a number of case studies of geotechnical projects. These case studies illustrate the application of geotechnical principles in the design and construction of sustainable infrastructure. They also provide

valuable insights into the challenges and opportunities of geotechnical engineering.

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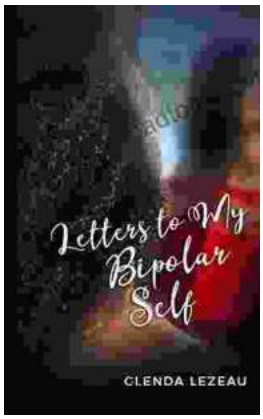

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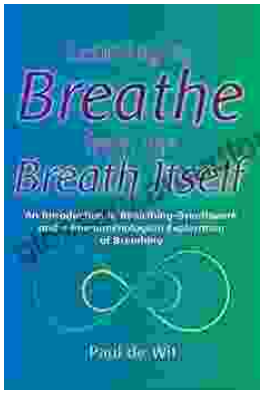

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