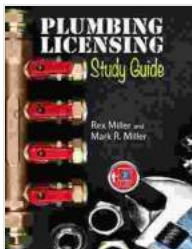


An Introduction to Failure Mode and Wedge Sliding Analysis for Concrete: A Comprehensive Guide for Structural Engineers

Concrete is a versatile and widely used construction material, but it is not without its challenges. One of the most important challenges is understanding how concrete fails, and how to design structures to avoid failure. This book provides a comprehensive overview of failure mode and wedge sliding analysis for concrete, with a focus on providing practical guidance for structural engineers.

What is Failure Mode and Wedge Sliding Analysis?

Failure mode analysis is the process of identifying the different ways in which a structure can fail. Wedge sliding analysis is a specific type of failure mode analysis that focuses on the potential for a concrete wedge to slide out of a structure under load. Wedge sliding is a common failure mode in concrete structures, and it can lead to catastrophic collapse.



An Introduction to Failure Mode and Wedge Sliding Analysis for Concrete Structures (Geotechnical Engineering) by Mois Benarroch

★★★★☆ 4.8 out of 5

Language : English
File size : 29626 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 542 pages



Why is Failure Mode and Wedge Sliding Analysis Important?

Failure mode and wedge sliding analysis is important because it helps structural engineers to design structures that are safe and reliable. By understanding how concrete fails, engineers can develop design measures to prevent or mitigate failure. This can help to prevent accidents, injuries, and fatalities.

Who Should Read This Book?

This book is intended for structural engineers who are responsible for designing concrete structures. It is also a valuable resource for students of structural engineering, and for anyone who wants to learn more about how concrete fails.

What is Covered in This Book?

This book covers the following topics:

- The different types of failure modes in concrete
- The factors that affect the failure mode of concrete
- The methods for analyzing wedge sliding failure
- The design measures that can be used to prevent or mitigate wedge sliding failure

Benefits of Reading This Book

By reading this book, you will learn how to:

- Identify the different ways in which concrete can fail
- Analyze the potential for wedge sliding failure in concrete structures
- Design measures to prevent or mitigate wedge sliding failure

Failure mode and wedge sliding analysis is an essential tool for structural engineers who design concrete structures. This book provides a comprehensive overview of this important topic, and it is a valuable resource for anyone who wants to learn more about how concrete fails.

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An Introduction to Failure Mode and Wedge Sliding Analysis for Concrete Structures



J. Paul Guyer, P.E., R.A.

Editor

Paul Guyer is a registered civil engineer, mechanical engineer, fire protection engineer and architect with 35 years of experience designing buildings and related infrastructure. For an additional 9 years he was a principal staff advisor to the California Legislature on capital outlay and infrastructure issues. He is a graduate of Stanford University and has held numerous national, state and local offices with the American Society of Civil Engineers, Architectural Engineering Institute and National Society of Professional Engineers. He is Fellow of ASCE, AEI and CIBE (U.K.).

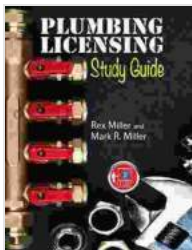
Failure mode and wedge sliding analysis for concrete

Chapter	Topic
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1	to failure mode and wedge sliding analysis
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Chapter	Topic
2	The different types of failure modes in concrete
3	The factors that affect the failure mode of concrete
4	The methods for analyzing wedge sliding failure
5	The design measures that can be used to prevent or mitigate wedge sliding failure

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