

Eco-Efficient Repair and Rehabilitation of Concrete Infrastructures: A Comprehensive Guide to Sustainable Concrete Repair Practices

Concrete is an essential material in the construction industry, but its production and maintenance have a significant environmental impact. Traditional concrete repair methods often rely on resource-intensive materials and processes, contributing to greenhouse gas emissions and waste generation. Eco-efficient repair and rehabilitation techniques offer an alternative approach, aiming to minimize the environmental footprint while ensuring the long-term performance of concrete infrastructures.



Eco-efficient Repair and Rehabilitation of Concrete Infrastructures (Woodhead Publishing Series in Civil and Structural Engineering) by Fernando Pacheco-Torgal

★★★★★ 5 out of 5

Language : English
File size : 68024 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 1385 pages



The Book: Eco-Efficient Repair and Rehabilitation of Concrete Infrastructures

The book 'Eco-Efficient Repair and Rehabilitation of Concrete Infrastructures' by Woodhead provides a comprehensive overview of eco-efficient concrete repair practices. It addresses the urgent need to adopt sustainable approaches in concrete infrastructure maintenance, considering the environmental, economic, and social implications. The book offers a thorough analysis of innovative repair techniques, eco-friendly materials, and successful case studies.

Key Features

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Comprehensive Coverage: The book covers a wide range of topics related to eco-efficient concrete repair, including assessment techniques, repair materials, and innovative rehabilitation methods.

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Sustainability Focus: The primary emphasis is on sustainable practices, highlighting the environmental impact of traditional repair methods and providing alternatives that minimize resource consumption and waste generation.

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Practical Guidance: The book includes practical guidelines and case studies, assisting professionals in implementing eco-efficient repair strategies on real-world projects.

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Interdisciplinary Approach: The book brings together experts from various disciplines, including materials science, structural engineering, and environmental management, providing a holistic perspective on eco-efficient concrete repair.

Target Audience

'Eco-Efficient Repair and Rehabilitation of Concrete Infrastructures' is an invaluable resource for professionals involved in the maintenance and rehabilitation of concrete infrastructures, including:

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Civil and Structural Engineers: responsible for designing and maintaining concrete structures.

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Researchers and Academicians: interested in advancing the field of sustainable concrete repair.

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Contractors and Construction Managers: involved in the execution of concrete repair projects.

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Policymakers and Regulators: responsible for developing and enforcing sustainable construction practices.

Benefits of the Book

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Enhanced Sustainability: Provides guidance on implementing eco-efficient repair techniques to reduce the environmental impact of concrete infrastructure maintenance.

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Cost Savings: Eco-efficient methods can lead to cost savings by optimizing material usage, minimizing waste, and extending the lifespan of structures.

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Improved Performance: Sustainable repair practices ensure the long-term durability and performance of concrete structures, reducing the risk of premature deterioration.

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Compliance with Regulations: The book aligns with emerging regulations and industry standards that promote sustainable construction practices.

'Eco-Efficient Repair and Rehabilitation of Concrete Infrastructures' is an essential resource for professionals seeking to adopt sustainable approaches in concrete infrastructure maintenance. It offers a comprehensive overview of eco-efficient techniques, materials, and case studies, providing valuable insights and practical guidance. By embracing

the principles outlined in this book, we can contribute to a more sustainable and resilient built environment.

To learn more about the book and Free Download your copy, visit the website below:

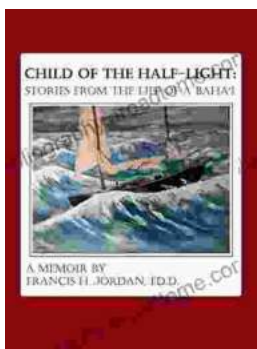
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