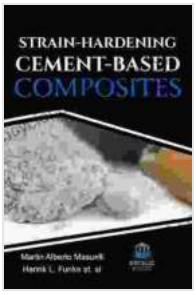
Strain Hardening Cement Based Composites: Shcc4 Rilem Bookseries 15

Strain Hardening Cement Based Composites (SHCC) are a new class of high-performance fiber-reinforced cementitious composites with remarkable tensile ductility and toughness. SHCCs are characterized by their ability to undergo large plastic deformations without failure, even under high tensile stresses. This unique property makes SHCCs ideal for a wide range of applications, including in infrastructure, building construction, and disaster mitigation.

This book presents the latest advances in SHCC, including the latest research on the development, properties, and applications of these materials. The book is divided into four parts:

- **Part 1: ** provides an overview of SHCC, including their history, development, and properties.
- **Part 2: Materials and Mix Design** discusses the different materials used in SHCC, including fibers, cement, and aggregates. This section also provides guidance on mix design for SHCC.
- **Part 3: Structural Behavior** examines the structural behavior of SHCC, including their tensile, compressive, and flexural strength. This section also discusses the influence of different factors on the structural behavior of SHCC.
- **Part 4: Applications** explores the potential applications of SHCC in a variety of fields, including infrastructure, building construction, and disaster mitigation.

This book is a valuable resource for researchers, engineers, and practitioners who are interested in learning more about SHCC. The book provides a comprehensive overview of the latest advances in this field and offers guidance on the design and application of SHCC.



Strain-Hardening Cement-Based Composites: SHCC4 (RILEM Bookseries Book 15)

★★★★★ 5 out of 5

Language	: English
File size	: 37455 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 816 pages

- Provides a comprehensive overview of the latest advances in SHCC
- Includes contributions from leading experts in the field
- Offers guidance on the design and application of SHCC
- Covers a wide range of topics, including materials, mix design, structural behavior, and applications
- **Part 1: **
  - Chapter 1: History and Development of SHCC
  - Chapter 2: Properties of SHCC
- **Part 2: Materials and Mix Design**

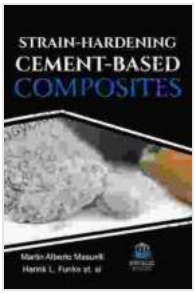
- Chapter 3: Fibers for SHCC
- Chapter 4: Cement for SHCC
- Chapter 5: Aggregates for SHCC
- Chapter 6: Mix Design for SHCC

- **Part 3: Structural Behavior**
  - Chapter 7: Tensile Strength of SHCC
  - Chapter 8: Compressive Strength of SHCC
  - Chapter 9: Flexural Strength of SHCC
  - Chapter 10: Influence of Different Factors on the Structural Behavior of SHCC

- **Part 4: Applications**
  - Chapter 11: SHCC in Infrastructure
  - Chapter 12: SHCC in Building Construction
  - Chapter 13: SHCC in Disaster Mitigation

The book is edited by Victor C. Li, a professor of civil engineering at the University of Michigan. Li is a leading expert in the field of SHCC and has published extensively on the topic.

The book is available in both print and electronic formats. To Free Download a copy, please visit the RILEM website.



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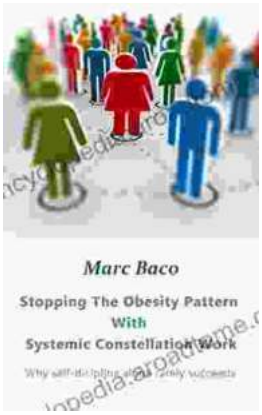

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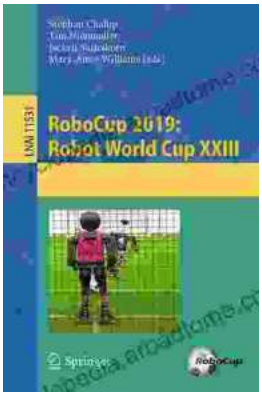

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