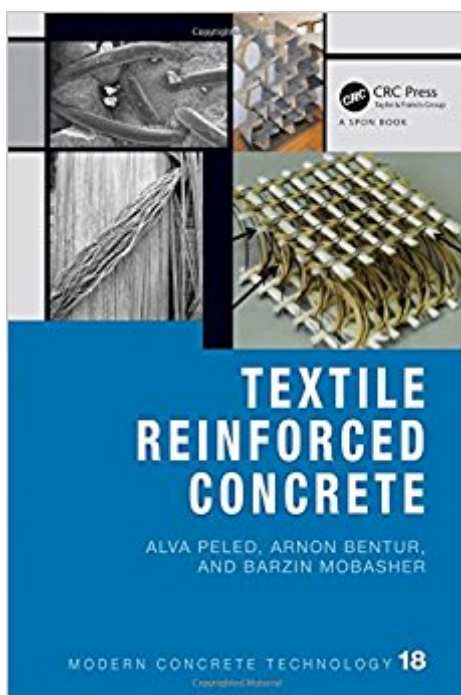The book was found

Textile Reinforced Concrete (Modern Concrete Technology)

Synopsis

Textile reinforced concrete (TRC) has emerged in recent years as an attractive new high performance cement-based composite. Textiles can significantly improve the mechanical behavior of cement matrices under static and dynamic conditions, and give superior tensile strength, toughness, ductility, energy absorption and protection against environmental degrading influences. Flexibility with fabric production methods enables the control of fabric and yarn geometry. This, along with the ability to incorporate into the fabric a range of yarns of different types and performances, as well as cement matrix modifications, enables design of the composite to a wide range of needs. The book is intended to provide a comprehensive treatment of TRC, covering the basic fundamentals of the composite material itself and the principles governing its performance on a macro-scale as a component in a structure.   It provides in-depth treatment of the fabric, methods for production of the composite, the micro-mechanics with special attention to the role of bonding and microstructure, behavior under static and dynamic loading, sustainability, design, and the applications of TRC composites.

Book Information

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Customer Reviews

"The book promises to be a great addition to the existing publications on the subject of textile reinforced concrete." -- Manfred Curbach, TU Dresden, Germany

Alva Peled is Senior Lecturer at Ben Gurion University of the Negev, Israel Arnon Bentur is Dean of Civil and Environmental Engineering at the Technion, Israel, and past President of RILEM Barzin Mobasher is Professor at Arizona State University, USA, Current Chair of ACIâˆˆs committee 544 on Fiber Reinforced Concrete, and author of Mechanics of Fiber and Textile Reinforced Cement Composites: Manufacturing, Analysis, and Design (CRC Press)

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