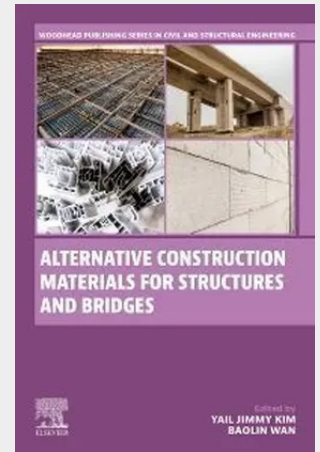


Alternative Construction Materials for Structures and Bridges

Alternative Construction Materials for Structures and Bridges discusses state-of-the-art subjects, such as high-performance concrete, lightweight concrete, self-consolidating rubberized concrete, shape memory alloys, non-metallic reinforcements, and other advanced composites. The book presents a comprehensive overview of the performance of these materials, including mechanical properties, structural responses, durability, failure mechanisms, lifecycle analysis, and design recommendations, thus creating a compelling resource with the purpose of grounding its readers' specialized understanding and driving the application of sought-after knowledge to practical endeavors. Researchers, students, and the structural engineering community of practitioners will find novel ideas to improve the reliability of new constructions and extend the service life of existing structural components through non-conventional materials which also play a crucial role in the minimization of maintenance and rehabilitation frequency, extent, and costs.

Alternative Construction Materials for Structures and Bridges discusses state-of-the-art subjects, such as high-performance concrete, lightweight concrete, self-consolidating rubberized concrete, shape memory alloys, non-metallic reinforcements, and other advanced composites. The book presents a comprehensive overview of the performance of these materials, including mechanical properties, structural responses, durability, failure mechanisms, lifecycle analysis, and design recommendations, thus creating a compelling resource with the purpose of grounding its readers' specialized understanding and driving the application of sought-after knowledge to practical endeavors.

Researchers, students, and the structural engineering community of practitioners will find novel ideas to improve the reliability of new constructions and extend the service life of existing structural components through non-conventional materials which also play a crucial role in the minimization of maintenance and rehabilitation frequency, extent, and costs.



222,50 €

222,50 € (zzgl. MwSt.)

*vorbestellbar, Erscheinungstermin ca.
September 2026*

Artikelnummer: 9780443417009

Medium: Buch

ISBN: 978-0-443-41700-9

Verlag: Elsevier Science

Erscheinungstermin: 01.09.2026

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2026

Produktform: Kartoniert

Gewicht: 1000 g

Seiten: 400

Format (B x H): 152 x 229 mm

