



Analysis and Design for Sustainable and Durable Structural Concrete in Infrastructures

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Message from the Guest Editors

Dear Colleagues,

Structural reinforced concrete is commonly used in infrastructure such as concrete pavements, bridges, abutments, etc. The addition of polyvinyl alcohol (PVA) fibres, polypropylene (PP) fibres, or hybrid fibres to concrete would improve the structural behaviour and sustainability of the infrastructure. PVA fibres may contribute to the self-healing of concrete, and both PVA and PP would improve the structural behaviour and ductility of reinforced concrete beams and slabs.

Experimental work may be carried out on fibrous reinforced concrete slabs and beams to assess the different types and quantity of fibres on their structural behaviour and durability.

Empirical design and rational equations based on international design codes may be developed to predict the deflection of slabs and the shear behaviour of beams, taking into consideration the effect of hybrid fibres for predicting deflection/shear strength in a simple and accurate way.





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Message from the Editor-in-Chief

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