



Mechanical Research of Reinforced Concrete Materials (2nd Edition)

Guest Editor:

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Message from the Guest Editor

Reinforced concrete (RC) is a principal construction material used for civilian and military buildings. Although the mechanical behaviors of reinforced concrete have been a research theme tackled by many researchers through experimental and theoretical approaches for 200 years, an accurate and comprehensive description of the actual mechanical behavior exhibited by reinforced concrete at service and ultimate conditions remains a challenge in the field of structural engineering.

This Special Issue focused on characterizing the mechanical performance of reinforced concrete materials. The scope of papers includes theoretical, experimental, and numerical studies that assess the general deformation response, damage evolution, and failure morphology of ordinary and high-performance reinforced concrete materials under various loading conditions (e.g. quasi-static, dynamic, fatigue, and impact). Investigations of reinforced concrete structures' impact/blast resistance and damage mechanism evolution, failure modes transition and energy absorption performance are also welcome. It is my pleasure to invite you to submit a manuscript to this Special Issue.





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Message from the Editor-in-Chief

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