

Special Issue Reprint

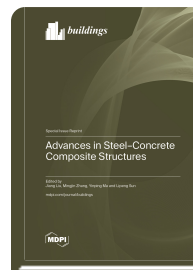
Advances in Steel–Concrete Composite Structures

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The aim of this Reprint is to introduce readers to the latest developments in steel–concrete composite structures, which comprehensively covers high-performance bridges and structures, industrial construction methods, and advanced computation methods. This Reprint explores a series of critical topics, including the shear behavior of bellow-sleeved studs, the temperature fields of cable-stayed bridge pylons, the assessment of concrete bridge blister disease, and low-carbon assembled construction, which reflect the field's focus on both structural performance and environmental sustainability. Moreover, studies on steel-plate concrete containment structures, preload effects on box columns, and thermal gradient analyses in the Tibet Region based on meteorological data further expand the research scope, showcasing the adaptability and regional applicability of composite structures. Collectively, these works make significant contributions to advancing sustainable development by skillfully integrating numerical models, experimental validation, and innovative methods. Such integration not only enhances the durability and seismic resilience of modern composite structures, but also improves their eco-efficiency in design and construction, pointing out a promising direction for the future development of this discipline.

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