



Blast and Impact Engineering in Concrete Materials and Structures

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Message from the Guest Editors

Protecting infrastructures such as government buildings, civil buildings, underground spaces, and bridges from explosions and impact loadings has become a key scientific issue. A great deal of research activity is devoted to the modeling and analysis of shock and impact effects on structures. In recent years, penetration and perforation analysis, material failure under high strain rate loads, and the development of test methods under shock and impact conditions have also attracted increasing research interest. This Special Issue focuses on different aspects of concrete materials subjected to explosive impact loads, including but not limited to experimental results and numerical simulations on concrete materials and structures subjected to explosive and impact loading. We look forward to receiving your exciting contributions.

For scholars interested to submit papers to the Special Issue, please click “Submit to Special Issue” or contact Astoria Yao: astoria.yao@mdpi.com.





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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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