Special Issue

Recent Advances in the Effect of Blast Loads on Structures

Message from the Guest Editors

Although the presence of explosives in various areas has been present for centuries, their effect and interaction with structures is still poorly understood because of the interdisciplinary aspect of the issue. With the deterioration of the global security situation in recent years, the question of the effect of explosion on structures has become very topical. Studying the effects of blast loads on structures can be important from two perspectives: studying blast resistance to protect structures or to carry out the intended demolition of structures. The positive effects of explosives are also used in areas of rock excavations and explosive welding. For these reasons, this Special Issue intends to present new ideas and experimental results in the various fields where blasts and explosives are present. This Special Issue will publish high-quality, original research papers in these areas:

- Setting of blast wave parameters;
- Behaviour of blast loaded structures;
- Mechanical properties of blast loaded materials;
- Numerical modelling;
- Demolition of structures using explosives;
- Protection of structures against blast;
- Technical seismicity induced by explosion.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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