Special Issue

Seismic Performance of Long-Span Bridges Subjected to Near/Cross Fault Earthquake: Analysis, Design and Assessment

Message from the Guest Editors

This Special Issue, entitled “Seismic Performance of Long-Span Bridges Subjected to Near/Cross Fault Earthquake: Analysis, Design and Assessment”, aims to collate a variety of research into topics connected to bridge security. Research is presented into the characteristics of ground motion caused by different earthquake fault rupture mechanisms and the method for simulating near/cross-seismic fault ground motion. Under complex terrains such as mountain canyons and deep-water areas, the relevant experimental technology, numerical simulation and simplified analysis method of the seismic performance of long-span bridges was subjected to near/cross-seismic fault earthquake excitations. Research is compiled on seismic system and shock-absorbing devices for long-span bridges, taking into consideration near/cross-fault earthquakes excitation. Based on the concept of seismic resilience, the seismic resilience improvement method and novel seismic system of long-span bridges, subjected to near/cross-fault earthquake excitations, were examined.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/160657

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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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