



Advanced Technologies in Seismic Design, Assessment and Retrofitting

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Message from the Guest Editors

The constant need to improve the design of new structures with high resistance against earthquakes is a pressing requirement worldwide. The potential losses from a strong earthquake can be very large and are not limited to loss of life and property damage due to the earthquake itself, but also to corresponding losses due to secondary causes such as fires and explosions. In addition, due to the fact that a very large number of structures has been designed and built with the aid of older seismic codes or without the use of any seismic regulations, it makes the need for seismic assessment and strengthening imperative. Modern seismic regulations provide not only higher standards for the design of new structures, but also corresponding standards for the seismic assessment and strengthening of existing ones. In the effort to constantly upgrade the desired level of anti-seismic capacity of new and existing structures, new technologies are examined and tested, based on the new possibilities offered by modern software, structural monitoring procedures (through organization of structures) and machine learning methods.





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Message from the Editor-in-Chief

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