



Advanced Methods for Seismic Performance Evaluation of Building Structures

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Message from the Guest Editor

Earthquakes are one of the most dangerous natural events. Not only do earthquakes come in different sizes, they could also occur anywhere in the globe. The demand to reduce the risk associated with earthquakes has been growing and leading to a greater research focus on seismic design and seismic performance evaluation. Recently, the performance-based seismic engineering approach has been adopted in the earthquake engineering community. In this approach, multiple seismic performance objectives are specified explicitly, which are defined with combinations of seismic hazard levels and structural and non-structural performance levels. Critical components of performance-based seismic design and evaluation procedures include state-of-art technologies relating seismic hazard analyses, robust numerical simulation frameworks, and sophisticated performance-based seismic design and assessment methodologies. Although major technologies have been developed, many challenging obstacles have to be solved to make them implemented in code provisions. The Special Issue aims to cover recent advances in the development of major components of seismic performance evaluation and design.





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Message from the Editor-in-Chief

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