

Special Issue Reprint

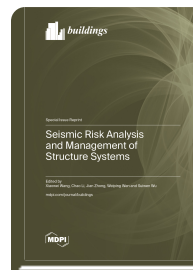
Seismic Risk Analysis and Management of Structure Systems

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This reprint is to immerse the readers in the latest knowledge and technologies on seismic risk analysis and the management of structure systems. Traditional deterministic approaches are on course to be replaced by risk-based methods for the seismic analysis and design of structures and infrastructure systems. A noted merit of risk analysis is the provision of a broader set of rigorous performance indicators accounting for various sources of uncertainties involved in earthquake hazard analysis, infrastructure exposure modeling, and structural damage assessment, particularly from a view of life cycle management for aging infrastructure facilities under an increasingly deteriorating built environment. A reliable risk analysis is therefore crucial for pre-event planning and post-event restoration decision-making. This reprint paves the way towards advanced and cutting-edge knowledge and technologies for the risk analysis and management of structure systems, including but not limited to bridges and buildings.

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