



**buildings**



*Special Issue Reprint*

## **Advances in Design and Disaster Mitigation of Engineering Structures**

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The safety of engineering structures under natural hazards (e.g., earthquakes, wind, fire and tsunamis) is a subject of great interest to researchers, and is important for protecting human life and reducing economic losses. This reprint focuses on experimental, theoretical, computational and relevant research on advanced methods in the design and disaster mitigation of engineering structures, including the following: analysing and simulating natural hazards; damage assessments of engineering structures under natural hazards; modelling and applications of new construction materials for structural engineering; design methodologies of innovative structural components and systems; advanced testing and modelling technologies; maintenance, repair and retrofit of existing structures; vulnerability, risk and reliability assessments of engineering structures under earthquakes, wind, fire and tsunamis; and advanced methods for the evaluation and design of resistance and resilience features of structural systems.



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