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Studies on Behavior of Structural and Nonstructural Components Subjected to Earthquake Hazard from a Sustainability Perspective

Guest Editors:

Prof. Dr. Bu-Seog Ju

Department of Civil Engineering, KyungHee University, Yongin-si 17104, Republic of Korea

Prof. Dr. Shinyoung Kwag

Department of Civil Environmental Engineering, Hanbat National University, Daejeon 34158, Korea

Dr. Bub-Gyu Jeon

Seismic Research and Test Center, Pusan National University, Yangsan-si 50612, Korea

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Message from the Guest Editors

Dear Colleagues,

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Since the 9.0-magnitude Fukushima earthquake in Japan, many engineers have recognized the need to have structural and nonstructural components remain operational or functional under beyond-design-basis events in order to mitigate earthquake damage. Therefore, this Special Issue in the Journal of Sustainability welcomes novel state-of-the-art numerical simulations such as the high fidelity finite element analysis and the experimental tests in accordance with innovative applications in the area of the piping system, electrical cabinets, electrical component/equipment, etc., of nuclear and nonnuclear power plants and critical facility structures. Topics or categories for this Special Issue include, but are not limited to, the following:

- Building-piping (or cabinet) interaction;
- Fragility analysis based on extreme events;
- Soil-structure interaction of nuclear or nonnuclear power plants;
- Seismic performance of electrical equipment (cabinet system) based on shaking table test;
- Mitigation of earthquake damage of structural or nonstructural components under beyond-design-basis events;



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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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Sustainability Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/sustainability sustainability@mdpi.com X@Sus_MDPI