Buildings

an Open Access Journal by MDPI

CiteScore: 4.4
Impact Factor: 3.1

Special Issue Reprint

Building Vibration and Soil Dynamics

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The growing demand for sustainable transportation has led to a significant interest in developing rail transit networks for both intra- and intercity travel. However, train-induced vibrations that are transmitted through soils to nearby buildings have become widely recognized as environmental concerns, with significant negative impacts on nearby buildings, sensitive equipment, and residents. Additionally, earthquakes can cause serious physical damage to buildings, resulting in economic losses and human casualties and injuries. Consequently, this Special Issue will focus on the modeling method and propagation characteristics of train-induced and seismic vibration in soils and buildings, as well as efficient mitigation methods.

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