

## Numerical investigation on pounding effects between two adjacent base-isolated building models under dynamic excitations

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*Abstract:* There are many different factors that can modify the dynamic response of a structure subjected to seismic excitations. Structural control methods (i.e. passive, active, or hybrid base isolation systems), pounding effects between adjacent buildings with insufficient in-between gap, or soil-structure interaction are counted among the most influential contributors which must not be neglected during detailed seismic analysis. Given that, the overall aim of the present paper is to conduct numerical investigation on dynamic response of two colliding building models with and without base isolation system (i.e. rubber bearings). Additionally, different in-between gap lengths will also be considered. Time history analysis plots will be presented. Results will be discussed.

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