

عنوان مقاله:

Effects Of Pounding On The Seismic Behavior Of Adjacent Concrete Frames

محل انتشار:

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خلاصه مقاله:

During an earthquake, different seismic behavior of adjacent buildings, causing the collision and impact which are critical loading conditions in comparison with no-collision condition causes. Amount of buildings without construction join, increases the importance of investigating this issue. In order to evaluate the effect of impact force on the seismic performance of RC frame structures, two buildings of 4 and 6 story reinforced concrete frame were selected and their seismic performance under the impact of the collision phenomenon is examined. At first frames were designed in SAP software and then have been modeled in OpenSEES software with different heights, hardness under earthquake records, and were analyzed by a set of nonlinear dynamic time history analysis. Then seismic response of these models is investigated through base shear and roof displacement.

کلمات کلیدی:

adjacent buildings, pounding, separation distance, nonlinear dynamic analysis

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