

عنوان مقاله:

Investigation of the Seismic Performance of RC Frames

محل انتشار:

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خلاصه مقاله:

Conventional seismic design approach of structures is based on force and using a response modification factor (R); recent earthquakes have challenged this method. In recent years, new methods have been proposed for seismic analysis, evaluation and design of structures. These methods are mostly based on displacement and performance. The purpose of this study is to evaluate the seismic performance of reinforced concrete frames using pushover analysis. One of the most significant results of this analysis is the load-displacement response of reinforced concrete structures or their capacity curve; moreover, this analysis is one of the well-established ways in determining the response modification factor. In this paper, pushover analysis was performed using SAP2000 software. The seismic performances of conventional reinforced concrete moment frame structures were evaluated and R factors for these structures were derived.

کلمات کلیدی:

RC Frames, R Factor, Seismic Performance, Pushover Analysis

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