### عنوان مقاله:

Investigation of the Effects of Recorded and Simulated Earthquakes on Buildings with Different Heights Using the ASCE Y-YY

#### محل انتشار:

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### خلاصه مقاله:

This paper considering two buildings different in height as a case study to inquiries into the effect of recorded and spectrally matched ground motions (simulated ground motion). Model of structures are developed using design procedure of Chapter ۱۲ of ASCE Y-YY and linear analysis is adopted using requirements of Chapter ۱۶ of ASCE Y-YY. In this study, the effects of recorded and simulated ground motions on drift distribution and also floor acceleration are investigated. It could be seen that all of the structures, when subjected to simulated ground motions, give acceptable performance, even though this is not the case with amplitude-scaled ground motions

## كلمات كليدي:

Seismic Safety, scale factor, spectrally matched, amplitude scaling, Performance-based design

لینک ثابت مقاله در پایگاه سیویلیکا:

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