

عنوان مقاله:

Seismic evaluation of nonlinear dynamic response of dual resisting systems (MRF and EBF)

محل انتشار:

ششمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1390)

تعداد صفحات اصل مقاله: 8

نویسندگان:

m Razi - Department of Civil Engineering , Iran University of Science and Technology, Tehran, Iran

a Nicknam

k Khazaei

خلاصه مقاله:

Use of steel structural dual systems such as Moment Bending Frame and Eccentrically Braced Frames MRF-EBF, within the last decade, has been widely progressed and used in engineering building industry especially in high-rise buildings. The Interaction between the two systems makes the dual system to have a complicated seismic performance behavior. Therefore, linear static methods mainly used in current design seismic codes might not be reliably able to consider such effects precisely. However, dynamic analysis methods by which the above mentioned point is physically better taking into account end with more reliable response particularly in nonlinear seismic response history of the structures. MRF- EBF systems are one of the widely used dual resisting systems in moderate to tall buildings. In this study the interaction between these types of dual systems are investigated considering different collapse mechanisms. Finally different types of static nonlinear analysis currently used are performed and .have been evaluated based on accuracy of estimations on deformation and internal forces in elements

کلمات کلیدی:

dual system performance, Nonlinear Dynamic Analysis, Pushover

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/114979>

