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عنوان مقاله:

DISTRIBUTION OF DRIFT DEMAND PARAMETER FOR ESTIMATING NONSTRUCTURAL COMPONENTS VULNERABILITY

محل انتشار:

چهارمین کنفرانس بین المللی مقاوم سازی (سال: 1391)

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خلاصه مقاله:

In this research the linear and elastic nonstructural displacements are studied under nonlinear behaviors of their supportive structures. In this regard the nonstructural components are investigated in two phases. In the first one the dynamic interactions between structures and non-structures are ignored. In the second phase the effects of dynamic interactions are considered and the nanostructures of different masses with the same periods of supportive structure's main mode are located on the structures' roofs. Then, the maximum relative displacements are compared in two phases. For this purpose, four different models of 4,8,12 and 16 stories are constructed designed in the forms of elastic and rigid bending frames. Then, an ensemble of thirty-two different ground motions, representing hazard levels of 2, 10, and 50% probability of exceedance are used as input to the building models and nonlinear dynamic analysis conducted. In this research the structures and non-structures parameters that affect on the height wise distribution of .inter-story drift are investigated

کلمات کلیدی:

Nonstructural Components, Inter story drift, Vulnerability, Nonlinear effects

لینک ثابت مقاله در پایگاه سیویلیکا:



