

عنوان مقاله:

The effective Placement of shock isolation system in structures subjected to earthquake

محل انتشار:

اولین همایش زلزله و سبک سازی (سال: 1384)

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نویسنده:

Soghra Rezazadeh - Center of Engineering Researches of Jihad, Tabriz, Iran

خلاصه مقاله:

One of the most effective ways to reduce the earthquake damage is to use of shock isolating devices in the structure. These devices consume the earthquake energy and lead to safer situation. Regardless of the type of shock isolating elements, there are some main approaches to place these devices. Shock isolating devices are placed on the base, wall or frame of the structure. They are also used in columns on intermediate floors. The elements, which are installed in the structural frame and wall, form an energy dissipation system while the elements that are placed under/over the base form a seismic (base) isolation system. Energy dissipation system reduces inter story drift caused by earthquake and Seismic (base) isolation system reduces ground motion transmitted into structure. In this paper, the feature of each method is explained and practical samples are discussed.

کلمات کلیدی:

earthquake, shock isolation, fault zone, seismic isolator, dissipation energy, structure, installation

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