

عنوان مقاله:

EFFECTVENESS OF ACTIVE TUNED LIQUID COLUMN DAMPER ON SEISMIC BEHAVIOR OF STRUCTURES

محل انتشار:

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خلاصه مقاله:

in this paper active tuned liquid column damper ATLCD has been developed to suppress structural vibrations caused by earthquakes . By assuming the geometric and material linear behavior for structure , the instantaneous optimal control mehtod by using wilson -q mehtod has been used as active control algorithm to determine control force the capability of the method has been evaluated through simulation where an single degree of freedom SDOF structure has been subjected to E1centro earthquake and controlled by the ATLCD. different controllers to reduce the response of structure to any desired level has been designed . effectiveness of ATLCD has been compared with tuned liquid .column damper TLCD for different mass ratio of TLCD

کلمات کلیدی:

. Active structural control , TLCD , seismic behavior , instantanceous optimal control method

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