عنوان مقاله:

Investigation of limited components of yielding, oval-shaped damper damper in shevron brace

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خلاصه مقاله:

Today, the use of passive dampers as earthquake-absorbing tools is very common in structures. Surrendering dampers are also inactive dampers that perform well in vibrating loading. As the surrendering damper enters the plastic area, the energy entering the structure will be spent on changing the plastic.In addition to absorbing much of the vibrating energy due to entering the plastic area, surrendering dampers in Chevron braces will prevent the braces from buckling like a fuse. Because the damper hardness of the damper interferes with its operation, and also the excessive hardness of the damper will cause the restraints to buckle, the side damper hardness must be optimally designed.Therefore, in order to increase the performance of the delivery damper, the geometric conditions of the damper must be defined in such a way that most of its parts are delivered before local buckling. ABAQUS limit is paid. After extracting the lost energy, the results are compared with each other to obtain a more optimal state.

کلمات کلیدی:

finite element, Abaqus, yielding damper, shevron brace

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