

Seismic Response of Viscoelastic Dampers for Steel Structures

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Abstract : This paper is focused on the advantages of Viscoelastic Dampers (VED) to be used as energy-absorbing devices in buildings. The properties of VED are briefly described. The analytical studies of the model structures exhibiting the structural response reduction due to these viscoelastic devices are presented. Computer simulation of the damped response of a multi-storey steel frame structure shows significant reduction in floor displacement levels.

Keywords : dampers, seismic evaluation, steel frames, viscoelastic

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