Comparative Analysis of a Multistorey Building with and without Damper

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Abstract

Viscoelastic dampers are considered to be better than most of the passive energy dissipation devices. Researches done on the improvement of its performance for analyzing structures has
always been in vogue. The significant change in the response of the structures to make it resistant to earthquake and wind forces is the main idea behind using such devices. A comparative analysis of a G+44 RCC structure has been carried out in this paper using Viscoelastic dampers. Dynamic behaviour of the structure for wind and earthquake loading with respect to response spectrum analysis is carried out. Changes in the responses of displacement, velocity, acceleration and drift for the damped structure are demonstrated illustrating the efficiency of dampers.

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