

EFFECT OF FLUID VISCOUS DAMPERS IN MULTI-STOREYED BUILDINGS

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ABSTRACT

Buildings are subjected to various loading conditions. Special protective systems have been developed to enhance safety and reduce damage of structures during earthquakes. Fluid viscous damper (FVD) comes into prominence here. This paper deals with the study of reinforced concrete buildings with and without fluid viscous dampers. A parametric study for finding optimum damper properties for the reinforced concrete frames was conducted. Nonlinear time history analysis is done on a symmetrical square building. Analysis is carried out using SAP2000 software and comparisons are shown in graphical format.

KEYWORDS: Fluid Viscous Damper, Pushover Analysis, Symmetrical Building, Time History Analysis