



Study on Modern Energy Absorption Systems in Structures Subjected to Earthquake Forces

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Abstract

In light of the vast potential for the application of modern energy absorption systems in the structures, the effectiveness of each system should be tested, analyzed, and proved before convincing the structures design companies to use them. In this research, the effectiveness of applying base isolators, viscous and friction dampers and a hybrid system consisted of lead rubber bearing with friction dampers are studied. To quantify the impact of each system, a control structure without any energy absorption system is considered. Base isolators and damper systems are designed according to available international codes. American concrete institute's codes were used to design the concrete structure frames. All of the considered systems therewith hybrid systems including lead rubber base isolation and viscous dampers have been modeled in ETABS 2018 software. The control structure has an intermediate moment resisting frame with high importance located in a high seismic hazard zone. These models were subjected to time history analysis by using Manjil, Loma prieta, and Imperial Valley Earthquakes records. It was observed that the structural design parameters such as base shears and story drifts were significantly reduced by 76–86% and 44–92%, respectively, compared to the structure without any energy absorption system. Also, the total energy dissipated in the structures equipped with modern energy absorption systems was decreased between 32 and 86% compared to the friction dampers. It should be noted that the studied devices may be used either for the design of a new structure or seismic rehabilitation of the existing structures.

Keywords Energy dissipation · Seismic base isolator · Friction damper · Viscous fluid damper · Dynamic time history analysis

Abbreviations

HDRB Rubber isolators with high damping
LRB Rubber isolators with lead cores

PED-V	Passive energy dissipation viscous fluid dampers
PED-F	Passive energy dissipation friction dampers
Hybrid system	Rubber isolators with lead core + Passive energy dissipation viscous fluid damper

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1 Introduction

The earthquake affects the structural and non-structural elements directly or indirectly which can lead to human life loss or structural damages (Perrone et al. 2019). It is difficult and expensive to prevent any damage and loss, especially during severe earthquakes. The purpose of the seismic design of buildings is to provide structural safety and comfort by controlling the internal forces and displacements within the defined limits. Conventionally, the seismic design of building structures was based on the concept of increasing the resistance capacity of the structures against earthquakes



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