

Enhancing the Seismic Response of Buildings with Energy Dissipation Methods – An Overview

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Abstract In recent years many seismic protection systems have been developed to reduce the effects of the devastating wind and seismic loads. For this purpose, greater attention has been directed towards the use of passive energy dissipaters, base isolators, active and hybrid control systems. This paper reviews the existing energy dissipation systems that can be adopted to minimize the amount of damage and response of the structure during extreme dynamic loads. Based on the review, it is observed that passive systems such as tuned mass dampers, friction dampers, tuned liquid dampers are highly effective in moderate seismic zones and wind predominant regions. Base isolation technique decouples the structure from the ground preventing the superstructure from absorbing input energy and it is effective in low to medium rise buildings in hard soil. Seismic isolation systems contribute to safety by withstanding lateral forces also. Active vibration control systems are preferred more than passive control systems when flexibility and height of the buildings is to be considered. This paper highlights the behaviour of various forms of energy dissipation devices during seismic events for real time application in structures.

Keywords Seismic isolation, Energy dissipation systems, Active vibration control, Tuned mass damper

1. Introduction

Minimum transmission of the damaging ground motions is possible by the introduction of energy dissipation devices which provide damping in to structural elements. Krawinkler and Spencer (2002), Simeoni *et al* (2008), Whitaker *et al* (1991) and many more have carried out great work on the behaviour and design of energy dissipating devices and base isolators. Active or hybrid or semi-active control systems are force delivery devices integrated with real-time processing evaluators/controllers and sensors within the structure. Passive energy-dissipation system, leads the input energy from earthquake directly to the dissipation device, thereby reducing energy-dissipating demand on primary structural members and minimizing possible structural damage. Energy dissipating device operates on the principle of friction sliding, yielding of metals, phase transformation in metals, deformation of viscoelastic solids or fluids and fluid orifice. This paper reviews the behaviour of energy dissipation systems and their application to building structures for enhancing the seismic response of structures.

1.1. Classification of Energy Dissipation Systems

Energy dissipation systems can be broadly classified in to

the following category:

- Passive control systems
- Active control systems
- Semi-active control systems
- Base isolation

Passive energy dissipaters are further classified into displacement-dependent devices (friction devices, metallic yielding devices) and velocity-dependent devices (solid viscoelastic and fluid viscous dampers).

Active, hybrid and semi-active structural control systems are a natural evolution of passive control technologies. The possible use of active control systems and some combinations of passive and active systems as a means of structural protection against seismic loads has received considerable attention in recent years. Base isolation is the process where rubber bearings are used to reduce structural movement by installing rubber pads between sub-structure and superstructure. Table 1 gives the summary of various energy dissipaters.

2. Passive Energy Dissipation Systems

Passive energy dissipation systems absorb a part of input energy, reducing energy dissipation demand on primary structural members. Hysteresis devices (metallic and friction dampers) dissipate energy through a mechanism that is independent of load frequency. Metallic dampers dissipate energy through yielding of metals and friction dampers

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Summary Of Evaluation Findings For The Testing Of Seismic Isolators And Energy Dissipating Devices

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