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### Design Of Seismic Isolated Structures: From Theory To ...

SEISMICALLY ISOLATED STRUCTURE DESIGN REQUIREMENTS 13.1 GENERAL Seismic isolation, commonly referred to as base isolation, is a design concept based on the premise that a structure can be substantially decoupled from potentially damaging earthquake motions.

### Chapter 13 Commentary SEISMICALLY ISOLATED STRUCTURE ...

Design of Seismic Isolated Structures provides complete, up-to-date coverage of seismic isolation, complete with a systematic development of concepts in theory and practical application supplemented by numerical examples. This book helps design professionals navigate and understand the ideas and procedures involved in the analysis, design, and development of specifications for seismic isolated structures.

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### design of seismic isolated structures from theory to practice

Different types of seismic control systems are used in earthquake-resistant design that serves the purpose of reducing the action of earthquake forces on the main structural system. Generally, there are three types of seismic control systems namely passive, active and hybrid seismic control systems.

### Types of Seismic Control System in Building Structures

Aimed at the performance-based design of seismic isolated structures, DDBD procedures have also been developed for bridge , and building structures equipped with seismic isolation. The DDBD procedure in [16] contains an improved equivalent viscous damping ratio for LRBs, whereas Cardone et al. [17] , [18] developed the DDBD procedure for structures equipped with various types of seismic isolation systems.

### A direct displacement-based design procedure for base ...

It is meant to enable a building or non-building structure to survive a potentially devastating seismic impact through a proper initial design or subsequent modifications. In some cases, application of base isolation can raise both a structure's seismic performance and its seismic sustainability considerably.

### Seismic base isolation - Wikipedia

In this paper, a seismic reliability-based design approach is proposed to design inelastic base-isolated structures with LRB systems. For this purpose, an extensive parametric study is conducted on 385 base-isolated structures optimally-designed using Genetic Algorithm, encompassing a wide range of base-isolated structures.

### Seismic reliability-based design of inelastic base ...

For design purposes, seismic analyses of the building was carried out by modeling all the structural system components (the super-structure, the sub-structure and the isolation system) as linear elastic elements, having satisfied the conditions reported in NTC for the linear modeling of isolation systems . In particular, the isolation devices were modeled by means of linear elastic springs (HDR bearings) and sliding supports (sliders).