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In Building Control with Passive Dampers, Takewaki brings together most the reliable, state-of-the-art methods in practice around the world, arming readers with a real sense of how to address optimal selection and placement of passive control systems. The first book on optimal design, sizing, and location selection of passive dampers

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Viscous, visco-elastic, hysteretic and friction dampers are representatives of passive dampers. Such passive dampers also play a key role in the implementation of structural rehabilitation which is essential for the realization and promotion of sustainable buildings. The technique of structural health monitoring is inevitable for the reliable and effective installation of passive dampers during the structural rehabilitation or retrofit.

### **Smart passive damper control for greater building ...**

The structural rehabilitation or retrofit of buildings has been conducted for a long time all over the world and the structural control using passive dampers plays a key role in the implementation of the structural rehabilitation or retrofit which is essential for the realization of sustainable buildings and cities.

### **Smart passive damper control for greater building ...**

Let's look at two types of passive damping: pendulum tuned mass dampers and tuned liquid dampers. Pendulum Tuned Mass Dampers. A Pendulum Tuned Mass Damper consists of a mass suspended on a pendulum. Under the seismic or wind loads, the pendulum naturally sways against the building's motion and effectively reduces its displacement.

### **Passive Structural Vibration Control with Tuned Mass ...**

In *Building Control with Passive Dampers* , Takewaki brings together most the reliable, state-of-the-art methods in practice around the world, arming readers with a real sense of how to address optimal selection and placement of passive control systems.

### **Building Control with Passive Dampers - ISBN ...**

Passive vibration damping systems often employ a mechanical device or a fluid to reduce vibration, but passive damping can also be achieved with viscoelastic materials. In either case, the kinetic energy of the vibration is converted to heat.

### **Vibration damping: What's the difference between passive ...**

The research presented in this thesis develops a new device for the passive control of motion in building structures: an electromagnetic damper. The electromagnetic damper is a self-excited device that provides a reaction force to an applied motion.

### **Passive electromagnetic damping device for motion control ...**

Active control system is a new invention compared with passive systems. When an earthquake hits a building, the sensors of active control system determine the direction and the weight of the counterbalance force to be induced in opposite direction so that the building remains motionless and structure remains safe.

### **Types of Seismic Control System in Building Structures**

Building control with passive dampers / Izuru Takewaki. p. cm. Includes bibliographical references and index. ISBN 978-0-470-82491-7 (cloth) 1. Earthquake resistant design. 2. Buildings—Earthquake effects. 3. Damping (Mechanics) 4. Buildings—Vibration. 5. Structural control (Engineering) I. Title. TA654.9.T35 2010 693.8\_52—dc22 2009025377

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### **BUILDINGCONTROL WITH PASSIVE DAMPERS Optimal Performance ...**

SEISMIC RESPONSE CONTROL OF A BUILDING INSTALLED WITH PASSIVE DAMPERS. Seismic response control using passive dampers is most cost effective, satisfied the architectural requirement of opening and recent technique to control the vibrations of structures arising due to dynamic loading.

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use of friction damper-based passive vibration control mechanisms as strong alternatives to active control methods in structural protection against earthquakes. INDEX TERMS Smart buildings,...

### **(PDF) Friction Damper-Based Passive Vibration Control ...**

Optimal Placement of Passive Dampers on Seismic and Wind-Excited Buildings using ... the determination of optimal locations have been demonstrated for three seismic-excited buildings and one wind-excited building. ... Kermiche, N. , Su, R. et al. (1996), "Control of Building Vibrations with Active/Passive Devices," Earthquake Engineering ...

### **Optimal Placement of Passive Dampers on Seismic and Wind ...**

Passive-- This is an uncontrolled damper, which requires no input power to operate. They are simple and generally low in cost but unable to adapt to changing needs. Active-- Active dampers are force generators that actively push on the structure to counteract a disturbance. They are fully controllable and require a great deal of power.

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