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Seismic Response Of Isolated Bridges

The seismic response of bridges seismically isolated by lead-rubber bearings (L-RB) to bidirectional earthquake excitation (i.e., two horizontal components) is presented in this paper. The force-deformation behavior of L-RB is considered as bilinear, and the interaction between the restoring forces in two orthogonal horizontal directions is duly considered in the response analysis.

Seismic Response of Isolated Bridges | Journal of Bridge ...

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The seismic response of the lumped mass model of continuous span isolated bridges is obtained by solving the governing equations of motion in the incremental form using an iterative step-by-step...

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A systematic method is developed for the dynamic analysis of the structures with sliding isolation which is a highly non-linear dynamic problem. According to the proposed method, a unified motion equ...

Seismic response analysis of bridges isolated with ...

SEISMIC RESPONSE OF ISOLATED BRIDGES BY HDRB

(PDF) SEISMIC RESPONSE OF ISOLATED BRIDGES BY HDRB ...

The seismic response of isolated bridge system is investigated for the three real earthquake excitations, namely the El-Centro (1940), Northridge (1994) (recorded at La County fire station) and Kobe (1995).

Seismic response of isolated bridges with soil-structure ...

Experimental and analytical studies of seismic response of highway bridges isolated by rate-dependent rubber bearings 1. Introduction. Highway bridges are crucial components of

transportation systems used in modern society and are... 2. Experimental studies. The RTHS test, which is a novel hybrid ...

Experimental and analytical studies of seismic response of ...

of SSI on the response of isolated bridges. Since the seismic isolation is based on the principle that it is possible to uncouple a structure from the damaging components of earthquake motion by a mechanism that provides flexibility and energy absorption capacity. Both these properties are modified by the flexibility of surrounding soil first, because

Seismic response of isolated bridges with soil-structure ...

Seismic responses of seismic isolated structures with QZS under vertical near-fault earthquakes are conducted to analyze the isolation effects. The comprehensive influences of static equilibrium position, vertical period, and damping ratio are investigated numerically. The length of oblique spring is m .

Seismic Response Analysis of an Isolated Structure with ...

Because the bridge would typically exhibit a stiff response, only developing an isolated response during major earthquakes, the bridge superstructure response may be described as quasi-isolated.

Seismic Response of Bearings for Quasi-Isolated Bridges ...

Tsopelas et al. [25] carried out an experiment to compare seismic responses of a bridge isolated by FPB with those of a non-isolated one, and verified the absolute superiority of FPB. However, all of the researches above applied FPB to protect the common building and highway bridge structures instead of the high-speed railway bridges, including the bridge and track structures.

Numerical analysis on longitudinal seismic responses of ...

Seismic energy response can better reflect the cumulative damage of the seismic wave on isolated bridge with FPB. The review of above studies indicates that there had not been sufficiently significant information to investigate the influence of the friction coefficient and isolation period of the FPB on the energy response of isolated bridges in order to minimize the structural response energy. In this paper, we present an analytical solution for the energy and dynamic responses of ...

Energy Response Analysis of Continuous Beam Bridges with ...

thermal deformations in bridges, and these bearings have potential utility in seismic events. IDOT has developed an Earthquake Resisting System (ERS) using the displacement capacity of typical bearings to achieve a structural response similar to isolation. Project R27-70 was conducted to validate and calibrate the quasi-isolated

SEISMIC PERFORMANCE OF QUASI-ISOLATED HIGHWAY BRIDGES IN ...

Bridge seismic isolation strategy is based on the reduction of shear forces transmitted from the superstructure to the piers by two means: shifting natural period and earthquake input energy reduction by dissipation concentrated in protection devices.

Probabilistic seismic response and reliability assessment ...

The seismic response of the lumped mass model of continuous span isolated bridges is obtained by solving the governing equations of motion in the state space form.

(PDF) Effect of Lead Rubber Bearing Characteristics on the ...

Stochastic response of bridges seismically isolated by lead-rubber bearings (LRB) is investigated. The earthquake excitation is modeled as a non-stationary random process (i.e. uniformly modulated broad-band excitation).

Equivalent linear stochastic seismic response of isolated ...

In recent years, the isolated abutment type has been developed, primarily to improve seismic responses of the bridges. The abutment type is based on a simple idea to provide an answer to situations where construction time, seismic design, and soft soils govern.

ISOLATED BRIDGE ABUTMENTS FOR ACCELERATED BRIDGE CONSTRUCTION

Seismic response of isolated bridge under several earthquake ground motions is presented in this paper. Non-linear time history analysis is carried out for both non-isolated and seismically isolated

bridge. Lead rubber bearing is employed to observe the isolated bridge behavior.

SEISMIC RESPONSE OF MULTI-SPAN HIGHWAY BRIDGE ...

Seismic responses of bridges isolated by lead rubber bearings under near-fault excitations are presented in this article. A bilinear force-deformation model is employed to represent the hysteretic behaviors of lead rubber bearings.

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