

Seismic Performance Of Cable Stayed Bridge Towers Nonlinear Dynamic Analysis Structural Control And Seismic Design

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Seismic Performance Of Cable Stayed

Seismic Performance of Cable-Stayed Bridge Towers: Nonlinear Dynamic Analysis, Structural Control and Seismic Design [Abdel Raheem, Shehata E., HAYASHIKAWA, Toshiro, DORKA, Uwe] on Amazon.com. *FREE* shipping on qualifying offers. Seismic Performance of Cable-Stayed Bridge Towers: Nonlinear Dynamic Analysis, Structural Control and Seismic Design

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Seismic Performance of Cable-Stayed Bridge Towers ...

Performance of Cable stayed Bridges during Earthquakes. Cable stayed bridges are not distinctly different from suspension bridges. They share similar span property like both are long and flexible. Cable stayed bridges and suspension bridges are nearly composed of similar components and hence they have similar earthquake weak points for instance Tower buckling and soil liquefaction.

Cable Supported Bridges Earthquakes Performance and ...

Past earthquakes revealed that bearing uplift has possibly occurred at several cable-stayed bridges and is regarded as a critical cause for significant structural damage.

Seismic evaluation of cable-stayed bridges considering ...

Seismic design of long-span single pylon cable-stayed bridge at high intensity seismic region has been a difficult issue for designers. There is few references in this aspect at present. Based on the research achievements and the engineering background of a single pylon cable-stayed bridge at high intensity seismic region of East China, a full bridge model is established to analyze dynamic ...

Study on Seismic Performance of Single Pylon Cable-Stayed ...

This study quantifies the scour effect on the seismic performance of a single pylon cable-stayed bridge under bidirectional earthquake excitations. Three-dimensional finite-element models, considering the nonlinear soil-structure interaction, the flexure-shear behavior of the bridge pier, and the hydrodynamic force applied to bridge structures, are built on the OpenSees platform.

Seismic Response of Single Pylon Cable-Stayed Bridge under ...

The results reveal that the seismic performance of the main girder of a three-tower cable-stayed bridge should be markedly affected by traveling wave effects, especially when the velocity exceeds

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616 m/s.

Seismic response study on a multi-span cable-stayed bridge ...

The overall seismic performance of cable-stayed bridges was quite satisfactory and no cable-stayed bridges collapsed during past earthquakes. However, several cable-stayed bridges have been reported with earthquake-induced damages as follows. 2.1.

Seismic evaluation of cable-stayed bridges considering ...

The optimization of control devices to enhance the dynamic performance of cable-stayed bridges was also reported. Mohamad et al. proposed a GA-based method for magnetorheological (MR) fluid damper optimization to mitigate the bridge flutter due to seismic and aerodynamic vibration.

Optimization of cable-stayed bridges: A literature survey ...

In this paper, the seismic responses of a cable-stayed bridge with different longitudinal restraint at the tower-girder connections are investigated. The results show that supplement of an elastic restraint or a fluid damper is useful measure to reduce structural response. Besides, a method which is used to estimate design parameters of longitudinal elastic restraint or fluid damper is presented, and the corresponding ranges of these parameters are suggested.

A Seismic Measure for Three-span Cable-stayed Bridge in ...

Based on the theory of beams on elastic foundation (TBEF), the potential correlation between corrosion-induced configuration alteration and seismic behavior of long-span cable-stayed bridges with a floating system is investigated qualitatively.

Potential Correlation between Corrosion-Induced ...

was observed in the seismic performance of a 670-m (2200-ft) span cable-stayed bridge model due

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to large variation in cable sag during seismic excitation. Large seismic energy is also transferred between the bridge deck and towers producing large moments and shear forces at the bases of the bridge towers.

On the Seismic Performance of Superlong Cable-Stayed Bridges

Seismic Performance of an Efficient Scissor-Jack-Damper Configuration. Lihua Zhu, 1,2 Pengyu Guo, 1 Chenglong Hua, 1 and Shiyu Shan 1. ... He, Y. Yang, X. Xiao, and Y. Deng, "Research on fluid viscous damper parameters of cable-stayed bridge in northwest China," Shock and Vibration, vol. 2017, Article ID 4532325, 9 pages, 2017.

Seismic Performance of an Efficient Scissor-Jack-Damper ...

Abstract This paper presents a novel and precise seismic performance evaluation method for large-span offshore cable-stayed (LSOCS) bridge by considering the strain rate effect of RC materials and...

Seismic performance evaluation of large-span offshore ...

The occurred damages during the past significant earthquakes have proved that vertical seismic excitation has tremendous effect on bridges. Three-component earthquake excitations are preferred to r...

Seismic assessment of a cable-stayed arch bridge under ...

Seismic performance of semi-rigid base connection model of cable-stayed bridge tower Shehata E. Abdel Raheem, Toshiro Hayashikawa International Journal of Civil and Structural Engineering Volume 3 Issue 2 2012 347 these connections are semi-rigid and the real condition lies between these two extreme cases.

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Seismic performance of semi-rigid base connection model of ...

The influence of the stiffness of P-VE dampers on the seismic behavior of cable-stayed bridges is investigated. The results indicate that the seismic performance of the cable-stayed bridge is the best and the damping ratio of the bridge achieves its maximum value when the damper stiffness is optimum.

Seismic response control of a cable-stayed bridge using ...

Seismic response of cable stayed bridge due to the random ground motion is obtained in this chapter using frequency domain spectral analysis. The ground motion is assumed to be a partially correlated stationary random process.

Seismic Reliability Analysis of Cable Stayed Bridges ...

The variation of the cable forces had a significant influence on the deck stability and the reduction of the variations in the forces in the cables, which is helpful in reducing oscillation of the deck. The longitudinal seismic performance of the cable-stayed bridge improved in cases 1, 2, 4, and 5.

Seismic isolation retrofitting solution for an existing ...

This article studies the seismic response of a symmetric long-span cable-stayed bridge under longitudinal uniform excitations by finite element analysis and shaking table tests. The feasibility and...

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