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Cable-Stayed Bridge Towers: Nonlinear
Dynamic Analysis, Structural Control and
Seismic Design

Structural Control And
Seismic Design of Cable-Stayed
Bridge Towers ...

This paper documents the fundamental
issues that were considered in the seismic

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design of recent cable-supported bridges including the seismic performance-based criteria (PBDC). The paper also discusses how the local damage levels are employed through a deformation-based approach to achieve the global performance objectives of the bridge.

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Seismic Performance-Based Design of Cable-Supported ...
of bridge structure. Furthermore, the overall seismic performance of stayed cable bridge significantly enhanced in longitudinal and transverse directions. It can summarize that the design of the stayed cable bridge is stable and ability to withstand under major and

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SEISMIC PERFORMANCE FOR CABLE
STAYED BRIDGE UNDER ...

minor earthquake and also can yield
adequate resistance against different
earthquake

SEISMIC PERFORMANCE FOR CABLE STAYED BRIDGE UNDER ...

The seismic performance of a cable-stayed
bridge in different fault regions has been

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evaluated. A larger deformation and strength demand are necessary for the bridges in MR. The deformation demand is essential for the towers in FR, whereas THE strength demand should be a priority for the towers in BR.

Seismic responses of super-span cable-

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Stayed bridges ... Bridge Towers

For a bridge located in a seismically active and flood-prone region, the occurrence of earthquakes combined with flood-induced scour is a highly possible multihazard event. This study quantifies the scour effect on the seismic performance of a single pylon cable-stayed bridge under bidirectional

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

Performance of Cable stayed Bridges during Earthquakes. Cable stayed bridges are not distinctly different from suspension bridges. They share similar span property like both

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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 ...

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Yi et al. verified the seismic responses for a single-tower cable-stayed bridge through the shaking table test and the results show that cables remain in tension, and the tensile force decreases with the increase of PGA and decreases to zero since the PGA reached 0.7 g. In this case, the girder loses cables' support and the vertical support is primarily

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provided by the lower pylon, thus, the girder-level section of pylon should be focused.

Assessing time-dependent damage to a cable-stayed bridge ...

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The performance of polynomial friction pendulum isolator (PFPI) applied to the benchmark cable-stayed bridge is explored. Seismic performance of the PFPI is evaluated with the basic friction pendulum system (FPS) based on the evaluation criteria stated in the phase I benchmark problem. The surface curvature of the PFPI

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is varied using a polynomial function to alleviate the drawbacks of FPS whose surface is spherical.

Structural Control And Seismic Design Seismic Performance of Polynomial Friction Pendulum ...

Abstract. Based on the theory of beams on elastic foundation (TBEF), the potential

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correlation between corrosion-induced configuration alteration and seismic behavior of long-span cable-stayed bridges with a floating system is investigated qualitatively. Some factors associated with initial configuration of those bridges, i.e., the influence length of bending moment, critical buckling load, and buckling mode, are

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determined first by the energy method.

Potential Correlation between Corrosion-
Induced ...

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This study assesses analytically the effectiveness, feasibility and limitations of elastic and hysteretic damping augmentation devices, such as elastomeric and lead – rubber bearings, with respect to the dynamic and seismic performance of cable stayed bridges. This type of bridge,

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which has relatively greater flexibility, is more susceptible to undesirable vibrations due to service and environmental loadings than are conventional bridges.

Seismic Design

Seismic energy dissipation for cable stayed bridges using ...

The control systems are shown to perform

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well when earthquake motions are uniform at all supports along the entire cable-stayed bridge, however, under multiple-support excitations, the performance of the control system with these parameters get worse dramatically over almost all of the evaluation criteria.

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Ground Motion Spatial Variation Effects on Seismic ...

Through the calculation and analysis of the single-pylon cable-stayed bridge with swivel construction under earthquake excitation, it is found that the locating pin at the center of the ball-end hinge has excessive shearing force under the 6-degree and 7-degree

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Seismic performance analysis of concrete-
filled steel ...

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.

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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 Design

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

The longitudinal seismic performance of the

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cable-stayed bridge improved in cases 1, 2, 4, and 5. In case 3, the seismic performance of the bridge only improved in the transverse direction. The base isolators at the abutments limited the longitudinal movement of the bridge, which led to an incrementation in the base shear and the base moment.

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Seismic isolation retrofitting solution for an existing ...

The collapse of long span cable stayed bridges under strong earthquakes will not only result in severe casualties and loss of property but also significantly delay the rehabilitation of the affected area.

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Collapse prognosis of a long span
cable stayed bridge ...

In addition, Nazmy and Abdel-Ghaffar studied the nonlinear dynamic performance of a 3-D long-span cable-stayed bridge under earthquake and revealed that the multiple-support seismic excitations can

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have a significant effect on structural response.

Simulation of the In Situ Spatially Varying
Ground Motions ...

A systematic study on the effect of heavy-haul trains on bridge seismic response has been conducted, considering the influence

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of vehicle modeling strategies and dynamic characteristics of the seismic waves. For this purpose, the performance of a long-span cable-stayed railway bridge is assessed with stationary trains atop it, where the heavy-haul vehicles are modeled in two different ways: the multi-rigid body model with suspension system and additional mass

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