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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



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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

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significant structural  
damage.

Cable Stayed  
Bridge Towers  
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**Seismic evaluation  
of cable-stayed  
bridges considering**  
Dynamic Analysis

Structural Control  
And Control  
Design  
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

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Performance Of  
and the engineering  
background of a single  
pylon cable-stayed  
bridge towers  
bridge at high intensity  
Nonlinear  
seismic region of East  
China, a full bridge  
Dynamic Analysis  
model is established to  
Structural Control  
analyze dynamic ...

## And Seismic Design **Study on Seismic Performance of Single Pylon Cable- Stayed ...**

This study quantifies  
the scour effect on the  
seismic performance of  
a single pylon cable-

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Performance Of  
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**

# Where To Download Seismic Performance Of **Single Pylon Cable- Stayed Bridge under**

**Bridge Towers**  
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 616 m/s.

**Seismic response  
study on a multi-**

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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.

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## **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

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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



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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.

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**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**

# Where To Download Seismic Performance Of **between Corrosion- Induced ...**

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

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## **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

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northwest China,"  
Shock and Vibration,  
vol. 2017, Article ID  
4532325, 9 pages,  
2017.

Dynamic Analysis  
**Seismic Performance  
of an Efficient  
Scissor-Jack-Damper**

Design  
Abstract This paper  
presents a novel and  
precise seismic  
performance  
evaluation method for  
large-span offshore  
cable-stayed (LSOCS)

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Performance Of  
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bridge by considering  
the strain rate effect of  
RC materials and...

### **Seismic performance evaluation of large- span offshore ...**

Dynamic Analysis  
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Anti Seismic  
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The occurred damages  
during the past  
significant earthquakes  
have proved that  
vertical seismic  
excitation has  
tremendous effect on  
bridges. Three-  
component earthquake  
excitations are

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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-

# Where To Download Seismic Performance Of Cable Stayed Bridge Towers Nonlinear

rigid and the real condition lies between these two extreme cases.

## **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



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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

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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

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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

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cable-stayed bridge  
under longitudinal  
uniform excitations by  
finite element analysis  
and shaking table  
tests. The feasibility  
and...

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