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The AASHTO Guide Specifications for LRFD Seismic Bridge Design (referred to as LRFD Seismic Guide Spec) was approved in July 2007. In this document the US has been subdivided into four Seismic Design Categories A, B, C, and D. The state of California is mostly designated as Seismic Design Category D, or

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SDC D for short.

**LRFD SEISMIC  
BRIDGE DESIGN,  
CALIFORNIA  
EXAMPLE**

This 2-day course,  
October 16-17, 2019,  
provides practical  
training for bridge  
design engineers and  
technicians on the  
application of the new  
Caltrans Seismic  
Design Criteria (Ver  
2.0) for the design of  
typical concrete

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bridges in California. In particular, this course will focus on slab and cast-in place post-tensioned box girder structures.

## **Seismic Design of Concrete Bridges in California - Local ...**

Section 2 - General  
Design and Location  
Features (PDF) Section  
3 - Loads and Load  
Factors - E (PDF)  
Section 4 - Structural  
Analysis and

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Evaluation - E (PDF)

Section 5 - Concrete  
Structures - E (PDF)

Section 6 - Steel  
Structures - E (PDF)

Section 9 - Decks and  
Deck Systems (PDF)

Section 10 -  
Foundations (PDF)

Section 11 - Walls,  
Abutments, and ...

**Load Resistance  
Factor Design CA  
Amendments - 8th  
Edition ...**

Covers seismic design

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for typical bridge types and applies to non-critical and non-essential bridges.

Approved as an alternate to the seismic provisions in the AASHTO LRFD Bridge Design Specifications. Differs from the current procedures in the LRFD Specifications in the use of displacement-based design procedures, instead of the traditional force-based R-Factor



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**AASHTO guide  
specifications for  
LRFD seismic bridge  
design ...**

The newly approved  
AASHTO Guide  
Specification for LRFD  
Seismic Bridge Design  
(referred to as LRFD  
Seismic Guide Spec),  
July 2007, is greatly  
influenced by Caltrans'  
Seismic Design  
Criteria.

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**Experimental**

**determination on  
the critical angle of**

...

This report describes the development and application of analysis and design specifications for bridge bearings and seismic isolators that (a) are based on load and resistance factor design (LRFD) framework; (b) are based on similar fundamental principles,

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which include the latest developments and understanding of behavior; and (c) are applicable through the same procedures regardless of ...

## **LRFD-Based Analysis and Design Procedures for Bridge ...**

Reference to Caltrans  
Seismic Design Criteria  
is for version 1.4.  
Requirements based  
on Caltrans

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Amendments to  
AASHTO LRFD and  
Caltrans Seismic  
Design Criteria are  
highlighted for  
clarification. LRFD  
DESIGN OF CALIFORNIA  
BRIDGES SHEET1-1 OF  
JOB TITLE BENT  
DESIGN  
ORIGINATOR Bob  
Matthews  
DATE 10/19/2007

**Bent design 00 -  
structsource.com**  
Analysis and Design  
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Design California  
Example using AASHTO  
LRFD Approach to  
Dynamic Analysis  
Analysis and Design  
Example using IDOT  
Bridge Manual  
Approach to Seismic  
Design (both 1000  
years and 500 year EQ)  
This course provides  
7.5 hours of Continuing  
Education credit.

## **Seismic Design of Bridges | SEA01**

View or download  
Caltrans engineering

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manuals, California  
Amendments to the  
AASHTO LRFD Bridge  
Design Specifications,  
and engineering  
reference materials.

## **Caltrans Engineering Manuals - California Department of ...**

Bridge life cycle  
optimization: decision-  
making in design,  
construction,  
management,  
maintenance,  
retrofitting, and

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replacement that optimize investment and performance related to extreme events. Supporting resilient community: response and recovery preparedness. Expect the unexpected: adaptive to changes in nature, economy, culture, and policy.

**Seismic - Structures  
- Bridges &  
Structures - Federal**

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This 2-day course provides practical training for bridge design engineers and technicians on the application of the new Caltrans Seismic Design Criteria (Ver 2.0) for the design of typical concrete bridges in California. In particular, this course will focus on slab and cast-in place post-tensioned box girder structures.



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**IDM-30 Seismic  
Design of Concrete  
Bridges in California**

...

This course is a comprehensive and practical training course that addresses the requirements and recommendations of the seismic provisions in both the AASHTO LRFD Bridge Design Specifications and the AASHTO Guide Specifications for LRFD Seismic Bridge Design.

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**National Highway  
Institute | National  
Highway Institute ...**

Recommended LRFD  
Guidelines for the  
Seismic Design of  
Highway Bridges W.  
Phillip Yen, PhD, PE  
Office of Infrastructure,  
R&D FHWA & Lee  
Marsh BERGER/ABAM  
Engineers Cape  
Girardeau, MO Oct.  
28-29, 2004

Recommended LRFD  
Guidelines for the

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Seismic Design of  
Highway Bridges For:  
AASHTO LRFDBridge  
Design Specifications  
(Load and Resistance  
Factor ...

## **Recommended LRFD Guidelines for the Seismic Design of ...**

The seminar will  
provide engineers the  
fundamental structural  
dynamics knowledge  
required to understand  
both force-based and  
displacement-based

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seismic design  
principals in  
accordance with the  
AASHTO LRFD Bridge  
Design Specifications  
and AASHTO Guide  
Specifications for LRFD  
Seismic Bridge Design.

## **Seismic Bridge Analysis & Design Workshop - Seminars ...**

This 2-day course  
provides practical  
training for bridge  
design engineers and

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technicians on the application of the new Caltrans Seismic Design Criteria (Ver 2.0) for the design of typical concrete bridges in California. In particular, this course will focus on slab and cast-in place post-tensioned box girder structures.

## **Seismic Design of Concrete Bridges in California ...**

This page contains

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links to and listings of  
all MassDOT LRFD  
Bridge Manual - 2013  
Edition Design  
Guidelines regarding  
the bridge project  
development process,  
final design,  
construction drawing  
preparation, and bridge  
rating process.

## **Part I - Design Guidelines | Mass.gov**

- 123doc - thư viện trực  
tuyến, download tài

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liệu, tải tài liệu, sách,  
sách số, ebook, audio  
book, sách nói hàng  
đầu Việt Nam

**AASHTO guide  
specifications for  
LRFD seismic bridge  
design**

This design  
memorandum  
describes WSDOT's  
amendments to  
AASHTO Guide  
Specifications for LRFD  
Seismic Bridge Design  
and revisions approved

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in 2008 by the AASHTO  
Highway  
Subcommittee on  
Bridges and Structures  
based on the WSDOT  
design and  
construction  
requirements. This  
memorandum  
supersedes design  
memorandum issued  
on February 18, 2008.

## **AASHTO Guide Specifications for LRFD Seismic Bridge Design ...**



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This design memorandum describes WSDOT's position in implementation of the new AASHTO Guide Specifications for LRFD Seismic Bridge Design. Beginning January 2008, WSDOT requires all new bridges, bridge widenings, and walls to be designed in accordance with the requirements of the AASHTO Guide Specifications for LRFD

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**Implementation of  
LRFD Guidelines for  
Seismic Bridge  
Design**

Author: Highway  
Innovative Technology  
Evaluation Center  
(U.S.); Publisher: ASCE  
Publications ISBN:

9780784474648

Category: Technology  
& Engineering Page:

122 View: 6883

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Highway Innovative  
Technology Evaluation  
Center (HITEC), a CERF  
Service Center. his  
report summarizes the  
results of an evaluation  
that was designed to  
test the performance of  
11 seismic ...

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ecf8427e.

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