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Seismic Design of Bridges **How  
to Visualize Seismic Loading**

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Fundamentals of Seismic  
Engineering (Webinar 1 - An  
Introduction)

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~~Example~~ Considerations for a  
Two Column Bridge Bent in a  
Seismic Zone CEEN 545 -

Lecture 12 - Design Ground  
Motions from Seismic  
Building Code (Part I)

*Seismic Design of Bridge as  
per AASHTO \u0026 Eurocode /  
Response Spectrum / Pushover  
/ Time-history* CE 618

Lecture 02b: AASHTO  
Specifications \u0026 Limit  
States (2016.08.31)

*Fundamentals of Seismic  
Engineering (Webinar 2)*

~~Bridge Engineering, Part 4:  
AASHTO LRFD Specifications  
(2017.09.11) Introduction  
and History of AASHTO LRFD  
Steel Bridge Design~~

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LECTURE 1 OVERVIEW ON AASHTO  
LRFD BRIDGE DESIGN 1

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~~Example~~ ~~Displacement based seismic~~  
~~design of structures~~  
~~Session 3/8 Physics~~

*Students' Bridge Designs Get  
Tested 3d Bridge Seismic  
Bearings* **What is the Design  
Criteria for Pedestrian  
Bridges? How To Design  
Bridge | Different Design  
Factors of a Bridge**

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Response Spectrum Analysis  
(RSA) - Concept \u0026amp; Use  
*LRFD Design Method* //  
*Example solved* BRIDGE DESIGN  
\u0026amp; DETAILS Part 1 6  
Facts Shaping Bridge Design  
and Construction Obtaining  
the Displacement Response  
Spectrum AASHTO LRFD Bridge  
Design Specifications, 6th  
Edition CE 414 Lecture 03:  
Lateral Loads [cont'd]

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~~(2020.01.17) Astani Dept  
Seminar: Load Resistance  
Factor Design For California  
Highway Bridge Foundations  
LECTURE 3 OVERVIEW ON AASHTO  
LRFD BRIDGE DESIGN 3 Case  
Study: Michael Baker |  
Seismic Design of Concrete  
Bridges CSiBridge - 06  
Automated Seismic Design:  
Watch \u0026 Learn AASHTO  
LRFD Bridge Design  
Specifications, 7th Edition  
1\_Seismic Design in  
Steel\_Concepts and  
Examples\_Part 1  
Displacement-based seismic  
design of structures -  
Session 1/8 Lrfd Seismic  
Bridge Design California  
The AASHTO Guide  
Specifications for LRFD~~

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## Example 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 SDC D for short.

## *LRFD SEISMIC BRIDGE DESIGN, CALIFORNIA EXAMPLE*

Lrfd Seismic Bridge Design California 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

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**Example** into four Seismic Design Categories A, B, C, and D. The state of California is mostly designated as Seismic Design Category D, or SDC ...

## *Lrfd Seismic Bridge Design California Example*

California transportation agencies are required to adopt the AASHTO load-and-resistance factor design (LRFD) specifications plus the California Amendments written by Caltrans for design of all new bridges.

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

LRFD-Based Analysis and

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**Example** Procedures for Bridge Bearings and Seismic Isolators MCEER-11-0004 This research was conducted the University at Buffalo, State University of New York, and was supported by the Federal Highway Administration under Contract Number DTFH61-07-C-00020 and the California Department of Transportation under Contract Number 65A0215 through a project with the Pacific ...

*LRFD-Based Analysis and Design Procedures for Bridge*

...

Reference to Caltrans Seismic Design Criteria is for version 1.4.



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Requirements based on  
Caltrans 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*

AASHTO LRFD Bridge Design  
Specifications with  
California Amendments and  
the Caltrans' Seismic Design  
Criteria. Caltrans MTDs are  
technical policies and  
procedures particular to  
California and assist the  
Structure Designer in the

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Example interpretation and application of structural and seismic design standards.

*Exhibit 11-B Bridges and Structures Definitions*

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deal even more than ...

## *Lrfd Seismic Bridge Design California Example*

LRFD MEMO TO DESIGNERS 20-4

• JUNE 2016. 20-4 S. EISMIC.  
R. ETROFIT. G. UIDELINES. F.  
OR . B. RIDGES. I. N. C.

ALIFORNIA . Introduction .

Caltrans . Memo to Designers  
(MTD) 20-4 . describes

policies and procedures for  
the seismic retrot of  
California's bridges. 1.

Caltrans, Bridge Design Aids  
(BDA) 14-5. and . Bridge  
Standard XS Detail Sheets .

Section 7 include common  
retrots that can be ...

*M TO D UNE LRFD - California  
Department of Transportation*

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Seismic design forces for foundations, other than pile bents and retaining walls, shall be determined by dividing elastic seismic forces, obtained from Article 3.10.8, by half of the response modification factor,  $R$ , from Table 3.10.7.1-1, for the substructure component to which it is attached. The value of  $R/2$  shall not be taken as less than 1.0.

## *AASHTO LRFD Seismic Bridge Design*

The DPWH LRFD Bridge Seismic Design Specifications (BSDS), 2013 edition, was issued to provide guidance that will improve the

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**Example** seismic performance of bridges in the Philippines. However, many references were given to the AASHTO Specification prior to the publication of the DPWH Design Guidelines, Criteria & Standards (DGCS 2015).

## *Department of Public Works and Highways*

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Design Windows*

LRFD SEISMIC BRIDGE DESIGN,  
CALIFORNIA. LRFD SEISMIC  
BRIDGE DESIGN, CALIFORNIA

EXAMPLE Mark S. Mahan1

Abstract The newly approved  
AASHTO Guide Specification  
for LRFD Seismic Bridge

Design. Filesize: 898 KB;

Language: English;

Published: June 27, 2016;

Viewed: 959 times; EXAMPLE

NO.1: PRESTRESSED CONCRETE

GIRDER BRIDGE D . EXAMPLE

NO.1: Concrete Bridge LRFD

Specifications Parsons

Brinckerhoff ...

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*Aashto Lrfd Bridges*

*Construction Specifications  
2004 ...*

AASHTO Guide Specifications  
for LRFD Seismic Bridge  
Design (2nd Edition) with  
2012, 2014 and 2015 Interim  
Revisions This book covers  
seismic design for typical  
bridge types and applies to  
non-critical and non-  
essential bridges. It is  
approved as an alternate to  
the seismic provisions in  
the AASHTO LRFD Bridge  
Design Specifications.

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

for LRFD Seismic Bridge  
Design ?AASHTO T-3 Committee

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Example  
and Volunteer States - 2006  
Trial Designs - 2007  
Technical Review ?2007  
AASHTO Adoption as a Guide  
Specification with the  
continuous support and  
guidance of the T-3  
Committee . Western Bridge  
Engineers' Seminar September  
24-26, 2007 5 Overall T-3  
Project Objectives ?Assist  
T-3 Committee in developing  
a LRFD Seismic Design ...

*AASHTO LRFD Guide  
Specifications for Seismic  
Design of ...*

SEAOI is pleased to present  
a full-day seminar on the  
topic of Seismic Design of  
Bridges using AASHTO LRFD.  
... Analysis and Design



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**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. CE certificates will be emailed to attendees after the class. Location. Association Forum 10 S. Riverside ...

*Seismic Design of Bridges /  
SEAOI*

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*AASHTO guide specifications  
for LRFD seismic bridge*

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## *design* Example

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...

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