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Chapter 13 of ASCE 7-10 contains extensive requirements for the

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seismic design and anchorage of nonstructural components. Knowledge of the requirements and application of ASCE 7-10 ' s Chapter 15 and Chapter 13 is essential for any structural engineer involved in the design of industrial structures and facilities. Primary Discussion Topics

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Topic 12 - Seismic  
Design of Masonry  
Structures

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451, Design Examples  
Introduction 1 - 10. 1971  
Earthquake in the San  
Fernando Valley of  
California. Earth dam  
located about 20 km  
from the epicenter. Part  
of the upstream face lost  
bearing strength and

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slipped beneath the  
water.

FEMA P-751: Chapter  
10: Masonry  
Introduction. This  
resource page provides  
an introduction to the  
concepts and principles  
of seismic design,  
including strategies for  
designing earthquake-  
resistant buildings to  
ensure the health, safety,

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and security of building occupants and assets.

The essence of successful seismic design is three-fold.

## Advanced Topics in the Seismic Design of Non- Building ...

The design ground accelerations for the design vary between 0.024g and 0.80g in the American territory. 3.2

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Definition of Seismic Zonation and Seismic Ground Motion Values. Eurocode 8 transfers the responsibility for defining the seismic zonation for each of the National Authorities.

Seismic Design Principles  
| WBDG - Whole  
Building Design Guide  
[richardson.eng.ua.edu](http://richardson.eng.ua.edu)



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Calculating the Seismic  
Design Force and  
Seismic Base ...

FEMA 451B Topic 7

Notes Earthquake

Engineering 7 - 10

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Design Concepts 7 - 10

Ground Disp. Time F

F G Behavior

Under Seismic Excitation

(Inelastic Response)

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Unloading Deformation reversal Now the ground is moving back to the right, and deformations and forces are reversed.

## COMPARATIVE STUDY OF CODES FOR SEISMIC DESIGN OF STRUCTURES

The elastic lateral deflection at each floor level under seismic lateral forces was obtained from

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a static elastic analysis based upon the calculated design seismic force and is also presented below.

Topic 10 - Seismic Design of Steel Structures  
nehrp recommended provisions seismic design of steel structures context in nehrp recommended provisions steel behavior reference standards and

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design strength. ... Topic  
10-Seismic Design of Steel  
Structures Notes.

Academic year. 11/12.

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Part 2: Advanced Topics

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This article is the conclusion of a two-part series which discusses the seismic design provisions for nonbuilding structures found in Chapter 15 of ASCE 7-16, Minimum Design Loads and Associated Criteria for Buildings and Other Structures. The previous article (Part 1, STRUCTURE, April

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2017) provided an  
introduction to the  
seismic design of ...

Seismic Design - an  
overview | ScienceDirect  
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– == => –

Other ratios are also  
computed to be greater  
than 1.0. Instructional  
Material Complementing  
FEMA 451, Design

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Examples Steel Structures

10 - 72. SMF Example

– Panel Zone Check.

The 2005 AISC Seismic specification is used to check the panel zone strength.

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Design of Steel Structures  
Notes - CIVL ...

Seismic design codes  
provide tools for design  
and recommendations



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for analysis of structures against earthquake, while fire design codes provide requirements for the fire protection and fire resistance of building elements to reduce the risk of structural damage and loss of life in the case of a fire.

## CONCEPTS OF SEISMIC-RESISTANT DESIGN

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Topic 12 deals with the seismic design of masonry structures. In this first slide, we see examples of different applications of masonry : on the left, a low-rise bearing-wall building of reinforced masonry; in the center, a high-rise

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Of

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Steel Structures 10 - 53  
Prequalified Connections  
See FEMA 350:  
Recommended Seismic  
Design Criteria for New  
Steel Moment-Frame  
Buildings-Welded  
Unreinforced Flange  
-Bolted Unstiffened End  
Plate Connection-  
Welded Free Flange

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Connection - Bolted  
Stiffened End Plate  
Connection

STRUCTURE magazine  
| Seismic Design of  
Nonbuilding ...  
FEMA P-751, NEHRP  
Recommended Seismic  
Provisions: Design  
Examples 10-4. Figure  
10.1-2 End wall elevation  
(1.0 in. = 25.4 mm, 1.0 ft  
= 0.3048 m) The floor is

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Conventional spread footings are used to support the interior steel columns. The soil at the site is a dense, gravelly sand.

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Notes Steel Structures 10  
- 4 Instructional Material

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Complementing FEMA

451, Design Examples

Steel Structures 10 - 4

Monotonic Stress-Strain

Behavior Stress-strain

diagram for mild steel.

Note the elastic range,

yield point, plastic range,

and region of strain

hardening. Define

ductility ratio; note

values of 100 or more.

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Calculating The Seismic  
Design Force And  
Seismic Base Shear For  
Reinforced Concrete  
Building  
Seismic Loads Based on  
IBC 2012/ASCE 7-10  
Based on Section 1613.1  
of IBC 2012, “ Every  
structure, and portion  
thereof, including  
nonstructural

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components that are permanently attached to structures and their supports and attachments, shall be designed and constructed to resist the effects of earthquake

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Structures | pdf Book ...  
The tenth step is to find  
the seismic response



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coefficient,  $C_s$ , which is based on Equation 12.8-2 of ASCE 7-10. The seismic response coefficient is equal to design spectral response acceleration coefficient for short period,  $S_{DS}$ , times the seismic importance factor,  $I_e$ , divided by the response modification factor,  $R$ .

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