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It goes in depth in many topics covering seismic design of structural components and systems of reinforced concrete and masonry. I will consider it an advance level text book. So if you a grad student doing research in

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Data and models useful
for analyzing
reinforced concrete
structures as well as
numerous illustrations,
tables, and equations
are included in this
detailed reference.

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Buildings covers:
Seismic design and
performance

verification; Steel
reinforcement;

Concrete; Confined
concrete; Axially

loaded members;

Moment and axial force

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Seismic Design Of Reinforced CONCRETE

STRUCTURES Topic 11 is the seismic design of reinforced concrete structures, primarily buildings. During this lesson you will learn the basics of seismic design of reinforced concrete buildings. Buildings designed using these principles will fare better in a seismic event than the building shown in this slide.

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Topic 11 - Seismic Design of Reinforced Concrete Structures

A load and resistance factor design (LRFD) method is commonly adopted to provide a structure with adequate strength so that the probability of failure is reduced to an acceptable level.

MacGregor (1983) describes development of the LRFD factors and associated safety levels for reinforced

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concrete design.

Concrete And **Seismic Design of Reinforced Concrete Buildings | Jack ...**

Optimum structural design of reinforced concrete (RC) frames has been the focus of extensive research.

Typically, previous studies set economic cost as the main design objective despite the fact that RC structures are major contributors of

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**Seismic design of
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frames for minimum**

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Instructional Material
Complementing FEMA
451, Design Examples
Design for Concrete
Structures 11 - 4
Seismic-Force-Resisting
Systems Reinforced
Concrete Unbraced
frames (with rigid
"moment resisting"
joints): Three types

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Concrete shear

walls: Ordinary Special

Precast shear walls:

Special Intermediate

Ordinary

Topic 11 - Seismic Design of Reinforced Concrete Structures

For reinforced concrete buildings assigned to the highest Seismic Design Categories (D, E, and F) in the United States, as defined in ASCE/SEI 7-16,

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Minimum Design Loads and Associated Criteria for Buildings and Other Structures(ASCE 2016), the applicable building codes permit the vertical elements to be either special moment frames or special structural walls.

Seismic Design of Reinforced Concrete Special Moment Frames

Seismic design of reinforced concrete

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mat foundations has advanced significantly in the last twenty years. As analytical capabilities have improved, primarily in the form of finite element analysis, the mathematical modeling of these continuous structural elements has led to seemingly more precise designs.

A Guide for Practicing Engineers - Earthquake

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NEHRP Seismic Design
Technical Brief No. 6

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Design of Cast-in-Place
Concrete Special

Structural Walls and
Coupling Beams: A

Guide for Practicing
Engineers: NIST GCR
11-917-11REV-1 :

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Foundations: A Guide
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The performance

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based seismic design (PBSD), evaluates how the buildings are likely to perform under a design earthquake. As compared to force-based approach, PBSD provides a methodology for assessing the seismic performance of a building, ensuring life safety and minimum economic losses.

Performance Based Seismic Design of

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The costs of inadequate earthquake engineering are huge, especially for reinforced concrete buildings. This book presents the principles of earthquake-resistant structural engineering, and uses the latest tools and techniques to give practical design guidance to address single or multiple seismic performance

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Data and models useful
for analyzing
reinforced concrete
structures as well as
numerous illustrations,
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detailed reference.

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Reinforced Concrete Buildings covers: Seismic design and performance verification. Steel reinforcement. Concrete. Confined concrete.

Seismic Design of Reinforced Concrete Buildings / Edition ...

In 1961 the Portland Cement Association (PCA) pioneered the work on seismic design by publishing the land

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mark publication,

Design of Multistory

Reinforced Concrete

Building for Earthquake

Motion by Blume,

Newmark and Corning.

Seismic Design - Portland Cement Association

Moment frames are generally selected as the seismic force-resisting system when architectural space planning flexibility is desired. When

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concrete moment frames are selected for buildings assigned to Seismic Design Categories D, E, or F, they are required to be detailed as special reinforced concrete moment frames.

A Guide for Practicing Engineers

The aim of the present work is to give a full analysis of the implication during the design stage of the

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ductility class for the reinforced concrete frame structures regarding the Eurocode 8. To carry out the proposed study, a regular RC frame building has been designed in different hazard seismic zones for the three ductility classes according to the seismic design rules mentioned in Eurocode 8.

Ductility

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**considerations in
seismic design of
reinforced ...**

Design of Reinforced
Concrete, 10th Edition
by Jack McCormac and
Russell Brown,
introduces the
fundamentals of
reinforced concrete
design in a clear and
comprehensive manner
and grounded in the
basic principles of
mechanics of solids.
Students build on their
understanding of basic

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mechanics to learn new concepts such as compressive stress and strain in concrete, while applying current ACI Code.

Design of Reinforced Concrete, 10th Edition | Wiley

This paper presents a simplified performance-based optimal seismic design approach for multi-story reinforced concrete moment frames. The proposed

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approach minimizes
construction cost and
takes member plastic
rotation and optionally
inter-story drift as
optimization
constraints.

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