

# Chapter 11

## SEISMIC DESIGN CRITERIA

### 11.1 GENERAL

#### 11.1.1 Purpose

Chapter 11 presents criteria for the design and construction of buildings and other structures subject to earthquake ground motions. The specified earthquake loads are based upon post-elastic energy dissipation in the structure, and because of this fact, the requirements for design, detailing, and construction shall be satisfied even for structures and members for which load combinations that do not contain earthquake loads indicate larger demands than combinations that include earthquake loads. Minimum requirements for quality assurance for seismic force-resisting systems are set forth in Appendix 11A.

#### 11.1.2 Scope

Every structure, and portion thereof, including nonstructural components, shall be designed and constructed to resist the effects of earthquake motions as prescribed by the seismic requirements of this standard. Certain nonbuilding structures, as described in Chapter 15, are also within the scope and shall be designed and constructed in accordance with the requirements of Chapter 15. Requirements concerning alterations, additions, and change of use are set forth in Appendix 11B. Existing structures and alterations to existing structures need only comply with the seismic requirements of this standard where required by Appendix 11B. The following structures are exempt from the seismic requirements of this standard:

1. Detached one- and two-family dwellings that are located where the mapped, short period, spectral response acceleration parameter,  $S_p$ , is less than 0.4 or where the Seismic Design Category determined in accordance with Section 11.6 is A, B, or C.
2. Detached one- and two-family wood-frame dwellings not included in Exception 1 with not more than two stories above grade plane, satisfying the limitations of and constructed in accordance with the IRC.
3. Agricultural storage structures that are intended only for incidental human occupancy.
4. Structures that require special consideration of their response characteristics and environment that are not addressed in Chapter 15 and for which other regulations provide seismic criteria, such as

vehicular bridges, electrical transmission towers, hydraulic structures, buried utility lines and their appurtenances, and nuclear reactors.

5. Piers and wharves that are not accessible to the general public.

#### 11.1.3 Applicability

Structures and their nonstructural components shall be designed and constructed in accordance with the requirement of the following sections based on the type of structure or component:

- a. Buildings: Chapter 12
- b. Nonbuilding Structures: Chapter 15
- c. Nonstructural Components: Chapter 13
- d. Seismically Isolated Structures: Chapter 17
- e. Structures with Damping Systems: Chapter 18

Buildings whose purpose is to enclose equipment or machinery and whose occupants are engaged in maintenance or monitoring of that equipment, machinery or their associated processes shall be permitted to be classified as nonbuilding structures designed and detailed in accordance with Section 15.5 of this standard.

#### 11.1.4 Alternate Materials and Methods of Construction

Alternate materials and methods of construction to those prescribed in the seismic requirements of this standard shall not be used unless approved by the authority having jurisdiction. Substantiating evidence shall be submitted demonstrating that the proposed alternate, for the purpose intended, will be at least equal in strength, durability, and seismic resistance.

### 11.2 DEFINITIONS

The following definitions apply only to the seismic requirements of this standard.

**ACTIVE FAULT:** A fault determined to be active by the authority having jurisdiction from properly substantiated data (e.g., most recent mapping of active faults by the United States Geological Survey).

**ADDITION:** An increase in building area, aggregate floor area, height, or number of stories of a structure.

# Chapter 11 Seismic Design Criteria Civil Engineering

**Jack Moehle**



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Composite Systems methodically explores the structural behavior of steel concrete and composite members and systems This text establishes the notion that design is a creative process and not just an execution of framing proposals It cultivates imaginative approaches by presenting examples specifically related to essential building codes and standards Tying together precision and accuracy it also bridges the gap between two design approaches one based on initiative skill and the other based on computer skill The book explains loads and load combinations typically used in building design explores methods for determining design wind loads using the provisions of ASCE 7 10 and examines wind tunnel procedures It defines conceptual seismic design as the avoidance or minimization of problems created by the effects of seismic excitation It introduces the concept of performance based design PBD It also addresses serviceability considerations prediction of tall building motions damping devices seismic isolation blast resistant design and progressive collapse The final chapters explain gravity and lateral systems for steel concrete and composite buildings The Book Also Considers Preliminary analysis and design techniques The structural rehabilitation of seismically vulnerable steel and concrete buildings Design differences between code sponsored approaches The concept of ductility trade off for strength Tall Building Design Steel Concrete and Composite Systems is a structural design guide and reference for practicing engineers and educators as well as recent graduates entering the structural engineering profession This text examines all major concrete steel and composite building systems and uses the most up to date building codes

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**The Structural Engineer's Professional Training Manual** Dave Adams,2007-10-24 The Business and Problem Solving Skills Needed for Success in Your Engineering Career The Structural Engineer s Professional Training Manual offers a solid foundation in the real world business and problem solving skills needed in the engineering workplace Filled with illustrations and practical punch list summaries this career building guide provides an introduction to the practice

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openings and offsets Standard shear walls Shear walls with openings Discontinuous shear walls Horizontally offset shear walls The portal frame Rigid moment resisting frame walls the frame method of analysis *Proceedings of Seminar on Seismic Design, Retrofit, and Performance of Nonstructural Components* ,1998 **ACI Manual of Concrete Practice** ,2007

*Structural Engineering Handbook, Fifth Edition* Mustafa Mahamid, Edwin H. Gaylord, Charles N. Gaylord, 2020-04-17  
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Dave K. Adams, 2022-08-26 This up to date self study system delivers comprehensive coverage of all topics on the current version of the Structural Engineering SE exam This up to date self study guide provides comprehensive coverage of all topics expected on the current version of the SE exam Structural Engineering SE All in One Exam Guide Breadth and Depth Second Edition offers background material real world examples updated regulations and requirements sample problems and realistic practice exams both multiple choice and essay Written by a practicing engineer and a former exam developer and grader Structural Engineering SE All in One Exam Guide Breadth and Depth Second Edition will focus and enhance your preparation for the 16 hour Structural Engineering exam produced by NCEES and adopted by your jurisdiction This book prepares you for every topic expected to be on the exam including building systems structural analysis seismic and wind analysis structural materials bridges and simple and complex code provisions You will learn strategies for taking the exam and gain insight into how the test is written and graded Coverage includes An introduction to exam preparation and professional licensure Design codes and general loading Computer modeling and verification Construction administration

and quality control Structural analysis Reinforced and prestressed concrete design Masonry design Foundation and retaining wall design Structural and cold formed steel design Timber design Seismic loading Wind loading Bridge design *Abstract Journal in Earthquake Engineering* ,1991 **Ductile Design of Steel Structures, Third Edition** Michel Bruneau, Chia-Ming Uang, Rafael Sabelli, 2026-01-30 A completely revised and updated in depth guide to the requirements central to earthquake resistant design of steel structures Ductile Design of Steel Structures Third Edition has been thoroughly updated to address the extensive advancements made in the industry over the past decade The book covers steel material cross section component and system response for applications in plastic and seismic design and provides practical guidance on how to incorporate these principles into structural design You ll find essential coverage of new structural systems like composite steel plate and concrete filled walls as well as new ductile connections for special moment resisting frames and modifications in the design requirements for other structural systems This third edition is filled with new and updated content including Essential information on concrete filled composite steel plate walls SpeedCore A significantly expanded chapter on buckling restrained braced frames Updated knowledge recently implemented in the AISC seismic provisions that has simplified the design of steel plate shear walls Design examples that comply with requirements in the 2022 AISC provisions New information on load path in floor roof diaphragms from the inertia force sources to the lateral force resisting systems and general information on diaphragm design Information on new structural systems being proposed such as friction devices scorpion braces and more Written by experts in earthquake resistant design who are active in the development of seismic guidelines this is an invaluable resource for practicing engineers and graduate students in structural engineering **ACI Structural Journal** ,1993 **Seismic Design of Liquid-containing Concrete Structures (ACI 350.3-01) and Commentary (ACI 350.3R-01)** ACI Committee 350, 2001 Types of liquid containing structures General criteria for analysis and design Earthquake load distribution Stresses Earthquake induced earth pressures Dynamic model

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