



Seismic Design Solved Problems, 7th Ed

By Majid Baradar PE

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Seismic Design Solved Problems, 7th Ed By Majid Baradar PE

Comprehensive Practice in Seismic Design Concepts, Methods, and Standards

Seismic Design Solved Problems

Seventh Edition

Seismic Design Solved Problems provides comprehensive practice for both the California Civil Seismic Principles exam and the NCEES Structural Engineering (SE) exam. 360 multiple-choice problems cover all exam subjects, including basic seismology, applications of codes and standards, and design details. The variety of problem types, topics, and complexities is representative of the actual exam. Problems in both qualitative and quantitative formats are included, and solutions use the same codes and standards that will be needed on exam day. Step-by-step procedures are used to solve numerical problems; and, detailed explanations are given for qualitative problems.

With *Seismic Design Solved Problems*, you will

- review seismic principles and common terminology
- navigate through the codes and standards
- apply seismic concepts to common designs
- solve problems quickly and confidently

Topics Covered

- Codes and Regulatory Provisions
- Diaphragm Theory
- Details of Structures
- Seismology Principles

Referenced Codes and Standards

Building Code Requirements and Specification for Masonry Structures (ACI 530)

Building Code Requirements for Structural Concrete (ACI 318)

International Building Code (IBC)
Minimum Design Loads for Buildings and Other Structures (ASCE/SEI7)
National Design Specification for Wood Construction ASD/LRFD (NDS)
Seismic Provisions for Structural Steel Buildings (AISC 341)
Special Design Provisions for Wind and Seismic (SDPWD)

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Editorial Review

From the Back Cover

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About the Author

Majid Baradar, PE, a civil and earthquake engineering consultant, worked for 18 years at the California Department of Transportation (Caltrans). He is a registered civil engineer and a licensed building general

contractor. Mr. Baradar is also the author of PPI's *Seismic Principles Practice Exams for the California Civil Seismic Exam*.

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ABOUT THIS BOOK

Seismic Design Solved Problems contains 360 problems that promote and reinforce your knowledge of seismic principles and the fundamental earthquake engineering of structures. Problems are multiplechoice and categorized into chapters by topic, as listed in Table 1. While each problem is based on seismic engineering fundamentals, some require more knowledge, judgment, and insight than others. Typically, each chapter begins with simple problems and then progressively presents more difficult and complicated problems. Complete solutions are provided to explain key points, provide problem-solving techniques, and identify appropriate code references. Where applicable, problems are presented in customary U.S. units followed by SI units in parentheses, and solutions are solved using both units.

This book may be used to prepare for the California Civil Seismic Principles Exam and/or for seismic problems on the Structural Engineering (SE) Exam, which is administered by the National Council of Examiners for Engineering and Surveying (NCEES).

As you are working problems, be aware that this book clearly differentiates between four usages of the term "rigidity" using consistent nomenclature and subscripts: absolute rigidity, R_{abs} ; observed rigidity, R_{obs} ; relative rigidity, R_{rel} ; and tabulated rigidity, R_{tab} . (See the "Definitions of Rigidity Used in This Book" section for more information.)

This book uses the 2012 IBC and the 2010 ASCE/SEI7 when referencing code provisions in problems and solutions, unless a more stringent statutory requirement exists. (For example, Title 24 of the California Code of Regulations requires that schools and hospitals be operational after an earthquake, and this requirement supersedes lesser code requirements.) Since the 2012 IBC contains the same material and section numbers as the 2013 *California Building Code* (CBC), you may reference either the 2012 IBC or the 2013 CBC.

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Roy Larson:

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John Bennett:

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