

Online Library California  
Structural Engineer Exam

*California Structural  
Engineer Exam*

This highly effective self-study system delivers 100% coverage of all topics on the Structural Engineering SE exam Take the Structural Engineering

# Online Library California Structural Engineer Exam

SE Exam with complete confidence using the information contained in this comprehensive test preparation resource. Structural Engineering SE All-in-One Exam Guide: Breadth and Depth offers background material, sample problems, and accurate practice exams—all in a single

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volume. The book includes 160 practice multiple choice questions and 28 practice essay questions. Using the tried-and-true “ All-in-One ” format, the book reviews all topics covered on the test, such as building systems, structural analysis, seismic and wind analysis, structural materials, and non-

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building structures. Special emphasis is placed on simple and complex code provisions that appear on the exam. Strategies for taking the exam are discussed, giving you insight into how the test is written and graded. • Offers complete coverage of the breadth and depth portions for both the Lateral

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Forces segment and Vertical Forces segment of the Structural Engineering SE Exam • Includes two practice tests for each portion of the exam and 28 practice essay questions for both buildings and bridges • Written by an expert with first-hand knowledge of how the NCEES develops and grades

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the SE Exam

This up-to-date self-study system delivers comprehensive coverage of all topics on the current version of the Structural Engineering SE exam Take the latest version of the Structural Engineering (SE) exam with confidence using the information

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contained in this revised study guide. Structural Engineering SE All-in-One Exam Guide: Breadth and Depth, Second Edition offers background material, real-world examples, sample problems, and accurate practice exams--all in a single volume. This edition features updated regulations

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and includes additional practice questions, both multiple choice and essay. Using the tried-and-true "All-in-One" format, the book reviews every topic on the test, including building systems, structural analysis, seismic and wind analysis, structural materials, and bridges. Special emphasis is



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placed on simple and complex code provisions that appear on the exam. Strategies for taking the exam are discussed, giving you insight into how the test is written and graded. Offers comprehensive coverage of every area of the Structural Engineering SE exam Includes practice tests for each

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portion of the exam and practice essay questions for both buildings and bridges Written by a practicing engineer with first-hand knowledge of how the NCEES develops and grades the SE exam

A comprehensive guide and reference to assist civil engineers preparing for

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the Structural Engineer I and II examinations. 523 pages of problems with complete step-by-step solutions covering General Structural Principles and Seismic Design; Structural Steel Design; Structural Concrete Design; Structural Timber and Structural Masonry Design. Includes 4 problems

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and solutions from California Seismic Principles Exam. 18 HP-48G calculator programs. Updated for 1994 UBC and latest Codes.

California Civil Seismic Principles Solved Problems provides comprehensive practice for both the California Civil: Seismic Principles

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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

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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

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problems. With California Civil Seismic Principles 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

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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



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(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 (SDPWS)

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California Civil Seismic Principles  
Solved Problems

A Professional's Introduction to  
Earthquake Forces and Design Details

PPI Structural Depth Reference

Manual for the PE Civil Exam, Fifth  
Edition eText - 1 Year

Ethics in Civil and Structural

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Engineering: Professional  
Responsibility and Standard of Care  
For Civil and Structural Engineers  
A review specifically for the latest  
version of the Civil  
Engineering/Professional Engineer  
Exam. Covers exam topics in 12

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sections: Buildings; Bridges;  
Foundations and Retaining Structures;  
Seismic Design; Hydraulics;  
Engineering Hydrology; Water  
Treatment/Distribution; Wastewater  
Treatment; Geotechnical/Soils  
Engineering; and Ideal for the new

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breadth/depth exam A detailed discussion of the exam and how to prepare for it 335 essay and multiple-choice exam problems with a total of 650 individual questions A complete 24-problem sample exam Updated for 1997 UBC and all of the latest codes

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Appendix on Engineering Economy  
Since some states do not allow books containing solutions to be taken into the CE/PE Exam, the end-of-chapter problems do not have the solutions in this book.

Complete review for the NCEES

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Structural I and II exams, and the California state structural exam.

Includes practice problems and step-by-step solutions. Updated to reflect new codes tested on the exams.

California Civil Seismic Building Design presents the seismic design

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concepts most essential to engineers, architects, and students of civil and structural engineering and architecture. The book's 15 chapters provide a concise but thorough review of seismic theory, code application, design principles, and structural



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analysis. The 30 example problems demonstrate how to apply concepts, codes, and equations to solve realistic problems. More than 125 practice problems provide opportunities for independent problem-solving practice, and complete solutions allow you to

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check your solution approach. This book includes two comprehensive indexes--one of key terms and another of seismic building codes--to quickly direct you to the information you are looking for. You can also locate related support material by following

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references throughout the text to the 150 equations, 29 tables, 144 figures, and 21 appendices, and to relevant codes and standards. Topics Covered  
Basic Seismology Earthquake Characteristics Effects of Earthquakes on Structures Vibration Theory

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Response of Structures Seismic  
Building Code Diaphragm Theory  
General Structural Design Details of  
Seismic-Resistant Structures (Concrete  
Masonry, Steel, Wood) Tilt-Up  
Construction Special Design Features  
Referenced Codes and Standards AISC

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341 AISC 360 ACI 318 ACI 530 NDS  
SDPWD ASCE/SEI7 IBC  
ASBOG Exam Secrets helps you ace  
the National Association of State  
Boards of Geology Examination,  
without weeks and months of endless  
studying. Our comprehensive ASBOG

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Exam Secrets study guide is written by our exam experts, who painstakingly researched every topic and concept that you need to know to ace your test. Our original research reveals specific weaknesses that you can exploit to increase your exam score more than

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you've ever imagined. ASBOG Exam Secrets includes: The 5 Secret Keys to ASBOG Exam Success: Time is Your Greatest Enemy, Guessing is Not Guesswork, Practice Smarter, Not Harder, Prepare, Don't Procrastinate, Test Yourself; A comprehensive

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General Strategy review including:  
Make Predictions, Answer the  
Question, Benchmark, Valid  
Information, Avoid Fact Traps, Milk  
the Question, The Trap of Familiarity,  
Eliminate Answers, Tough Questions,  
Brainstorm, Read Carefully, Face



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Value, Prefixes, Hedge Phrases,  
Switchback Words, New Information,  
Time Management, Contextual Clues,  
Don't Panic, Pace Yourself, Answer  
Selection, Check Your Work, Beware of  
Directly Quoted Answers, Slang,  
Extreme Statements, Answer Choice

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Families; Comprehensive sections including: Field Methods/Geophysics/Modeling, Types of Faults, Law of Initial Horizontality, Radiometric Methods, Rule of V's, Geomorphic Characteristics of a Fault, Orogenic Events, Field Investigations,

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Standard Penetration Test (SPT),  
Ground Penetrating Radar (GPR),  
Snell's Law, Spontaneous Potential  
(SP), Gamma Radiation, Side-Looking  
Airborne Radar (SLAR),  
Hydrogeology/Environmental  
Geochemistry, Porosity and

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Permeability, Containment of Water in Underground Structures, Hydrogeological Investigation, Hydrologic Budget Equation, Groundwater Inventory Equation, Bernoulli Equation, Aquifers, Porosity, Values of Specific Yield, Storativity or Storage

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coefficient, Transmissivity, Bailer Test,  
The Theis Equation and Method,  
Dupuit Equation, Ground Water  
Studies, and much more...

Seismic Design of Buildings and  
Bridges for Civil and Structural  
Engineers

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Surveying for California Civil PE  
License

Engineer Your Own Success

Structural Engineering SE All-in-One

Exam Guide: Breadth and Depth

Occupational Outlook Handbook

Well Organized, Based on the

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Current California Board Test  
Plan and References, Detailed  
Table of Contents, Computer  
Generated Index (8 pages),  
Simplified Concepts, 66 Sample  
Problems with Detailed  
Solutions, and 181 Supplemental

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Practice Problems with Detailed Solutions.

Learn the principles and practices of ethics as applied to civil and structural engineering  
This comprehensive textbook looks at ethics through the lens



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of civil and structural engineering. Written by a practicing engineer and experienced author, Ethics in Civil and Structural Engineering: Professional Responsibility and Standard of Care uses known

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standards of professional care, ethical codes of conduct, court opinions, and case studies to connect core concepts to real-world professional practices. You will get strategies for ethically approaching pivotal issues,

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including environmental sustainability, resilient construction, professional responsibility, business and interpersonal relationships, and dispute resolution. Coverage includes: An overview of ethics

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and morality Defining and  
understanding competence A  
clear outline of engineering  
ethics Consideration of degrees  
of negligence Dealing with  
uncertainty and assessing error  
Professional responsibility Legal

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expectation of care in practice  
Ethical considerations with codes  
and regulations Historical  
development of ethical thought  
Justification for competent and  
ethical choices Case studies in  
ethics and standard of care

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Ethics and sustainability The globally conscious engineer  
Written by 6 professors, each with a Ph.D. in Civil Engineering;  
A detailed description of the examination and suggestions on how to prepare for it; 195 exam,

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essay, and multiple-choice problems with a total of 510 individual questions; A complete 24-problem sample exam; A detailed step-by-step solution for every problem in the book; This book may be used as a

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separate, stand-alone volume or in conjunction with Civil Engineering License Review, 14th Edition (0-79318-546-7). Its chapter topics match those of the License Review book. All of the problems have been reproduced



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for each chapter, followed by detailed step-by-step solutions. Similarly, the 24-problem sample exam (12 essay and 12 multiple-choice problems) is given, followed by step-by-step solutions to the exam. Engineers

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looking for a CE/PE review with problems and solutions will buy both books. Those who want only an elaborate set of exam problems, a sample exam, and detailed solutions to every problem will purchase this book.

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100% problems and solutions.  
Experts discuss the risks global environmental change poses for the human security, including disaster and disease, violence, and increasing inequity.

Practice Exams for the California

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Seismic Principles Civil P. E.  
Examination

License Review : Problems and  
Solutions

Seismic Principles  
Civil Engineering Problems and  
Solutions

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## California Civil Seismic Building Design

Realistic Practice for the  
California Civil Seismic  
Principles Exam California  
Civil Seismic Principles  
Practice Exams, 12th Edition

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provides comprehensive practice for the California Civil Seismic Principles exam. This book contains two realistic, full-length exams, each with 55 multiple-choice problems. All exam topics are covered, from

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basic seismology through applications of codes and standards. Step-by-step solutions to quantitative problems illustrate efficient problem-solving approaches. Qualitative solutions explain the

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correct answers and present related supportive information. Answer keys to both exams are included. This book can be used at the beginning of your exam preparation to assess familiarity with exam topics



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and to identify topics needing further review. You can also use this book at the end of your exam preparation to evaluate your preparedness and identify necessary references. Key Features Consistent with the

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exam scope and format Learn  
accurate and efficient  
problem-solving approaches  
Become familiar with the  
codes and standards  
Realistic practice helps you  
to solve problems quickly  
and confidently on exam day

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Binding: Paperback

Publisher: PPI, A Kaplan  
Company

Comprehensive Coverage of  
the PE Civil Exam Structural  
Depth Section The Structural  
Depth Reference Manual for  
the PE Civil Exam prepares

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you for the structural depth section of the PE Civil exam. It provides a concise, yet comprehensive review of the structural depth section exam topics and highlights the most useful equations in the exam-adopted codes and

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standards. Solving methods—including ASD and LRFD for steel, strength design for concrete, and ASD for timber and masonry—are thoroughly explained.

Throughout the book, cross references connect concepts

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and point you to additional relevant tables, figures, equations, and codes. More than 95 example problems demonstrate the application of concepts and equations. Each chapter includes practice problems so you can

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solve exam-like problems, and step-by-step solutions allow you to check your solution approach. A thorough index directs you to the codes and concepts you will need during the exam. Topics Covered Design

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of Reinforced Masonry Design  
of Wood Structures  
Foundations Prestressed  
Concrete Design Reinforced  
Concrete Design Structural  
Steel Design Referenced  
Codes and Standards Building  
Code Requirements and



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Specifications for Masonry  
Structures and Companion  
Commentaries (ACI 530/530.1)  
Building Code Requirements  
for Structural Concrete (ACI  
318) International Building  
Code (IBC) Minimum Design  
Loads for Buildings and

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Other Structures (ASCE/SEI7)

National Design

Specification for Wood

Construction ASD/LRFD (NDS)

PCI Design Handbook: Precast  
and Prestressed Concrete

(PCI) Steel Construction

Manual (AISC) Key Features:

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A robust index to facilitate quick referencing during the PE Civil Exam. Highlights the most useful equations in the exam-adopted codes and standards. Binding: Paperback Publisher: PPI, A Kaplan Company

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Everything you need to pass  
the test! Structural  
Engineering License Review:  
Problems and Solutions,  
2002-2003 Edition by Alan  
Williams, Ph.D., S.E., C.  
Eng., a leading structural  
engineering author · Written

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- for the Structural  
Engineering I and II Exams  
and the California  
Structural Engineering Exam
- Includes more than 70  
problems and step-by-step  
solutions from recent exams
  - Offers 18 HP-48G

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calculator programs, which include 6 concrete, 3 masonry, 3 timber, 4 steel, and 2 properties of sections design programs · Reflects current publications of SEAOC and FEMA · Conforms to the 1997 edition of the UBC

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- Provides comprehensive clarification of applicable Building Codes and Standard Specifications
- Uses provisions of the 1999 SEAOC bluebook, 1999 FEMA Advisory No. 2, 2000 FEMA 350 Design of Steel Moment Frame

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Buildings, and 1997 AISC  
Seismic Provisions · Cites  
extensive reference  
publications that reflect  
current design procedures  
Other Engineering Resources  
Available from Oxford  
University Press For the PE



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Exams Civil Engineering  
License Review, Fourteenth  
Edition, Donald G. Newnan,  
P.E. (1-57645-029-5) Civil  
Engineering: Problems and  
Solutions, Fourteenth  
Edition, Donald G. Newnan,  
P.E. (1-57645-030-9) Civil

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Flowcharts, Second Edition,  
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Engineering: Building

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Retaining Structures, Alan  
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Engineering: Seismic Design,  
Alan Williams, S.E.

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Introduction to MATLAB  
Getting Started with MATLAB  
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Scientists and Engineers by  
Rudra Pratap (0-19-512947-4)  
Getting Started with MATLAB,  
Version 6: A Quick

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Introduction for Scientists  
and Engineers by Rudra  
Pratap (0-19-515014-7) For  
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Fundamentals of Ethics for  
Scientists and Engineers by  
Edmund G. Seebauer and

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Robert L. Barry

(0-19-513488-5) Engineers  
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and Billy R. Sanders

(0-19-512057-4) Being  
Successful as an Engineer by  
W. H. Roadstrum

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information and a complete  
list of FE and PE Exam  
review books available from  
Engineering Press at Oxford



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University Press visit  
[www.engineeringpress.com](http://www.engineeringpress.com).  
Everything you need to  
prepare for the seismic  
design topics of the  
National Structural  
Engineering I & II exams, as  
well as California's

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Structural Engineering Exam  
and Special Civil  
Engineering Exam. Includes  
over 100 problems and step-  
by-step solutions Offers 18  
HP-48G calculator programs  
for frequently occurring  
calculations; Contains an

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8-page summary of useful equations Reflects current publications of SEAOC and FEMA Conforms to the 1997 edition of the UBC; Updated based on the latest AISC and ACI standards Provides comprehensive clarification

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of applicable Building Codes  
and Standard Specifications;  
Uses provisions of the 1999  
SEAOC bluebook, 1999 FEMA  
Advisory No. 2, 2000 FEMA  
350 Design of Steel Moment  
Frame Buildings, and 1997  
AISC Seismic Provisions

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Cites extensive references  
that reflect current design  
procedures

CALIFORNIA CONSTRUCTION  
LICENSURE EXAMINATION  
General Engineering (a)  
ExamFOCUS Study Notes and  
Review Questions 2012

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Civil & Structural  
Engineering  
Sunset Review Report  
Seismic Design of Building  
Structures  
Structural Engineer License  
Review: Problems and  
Solutions: For Civil and

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Structural Engineers

Here is a comprehensive guide and reference to assist civil engineers preparing for the Structural Engineer Examination. It offers 350 pages of text and 70 design problems with complete step-by-step solutions. Topics

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covered: Materials for Reinforced Concrete; Limit State Principles; Flexure of Reinforced Concrete Beams; Shear and Torsion of Concrete Beams; Bond and Anchorage; Design of Reinforced Concrete Columns; Design of Reinforced Concrete Slabs and



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Footings; Retaining Walls; and Piled Foundations. An index is provided.

NEW TWELFTH EDITION

AVAILABLE Seismic Design of Building Structures presents the seismic design concepts most essential to engineers, architects,

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and students of civil and structural engineering, and architecture. The book's 15 chapters provide a concise but thorough review of seismic theory, code application, design principles, and structural analysis. The 30 example problems

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demonstrate how to apply concepts, codes, and equations to solve realistic problems. More than 125 practice problems provide opportunities for independent problem-solving practice, and complete solutions allow you to check your solution

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approach. This book includes two comprehensive indexes--one of key terms and another of seismic building codes--to quickly direct you to the information you are looking for. You can also locate related support material by following references throughout

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the text to the 150 equations, 29 tables, 144 figures, and 16 appendices, and to relevant codes and standards. Topics Covered Basic Seismology Details of Seismic-Resistant Structures (Concrete, Masonry, Steel, Wood) Diaphragm Theory Earthquake

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Characteristics Effects of  
Earthquakes on Structures  
General Structural Design  
Response of Structures Seismic  
Building Code Special Design  
Features Tilt-Up Construction  
Vibration Theory Referenced  
Codes and Standards ACI 318 ACI

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530 AISC 341 AISC 360 ASCE/SEI7  
IBC NDS SDPWD An Introduction  
to Seismic Design for the  
California Civil Seismic exam  
California Structural Engineer  
Seismic exam Civil PE exam  
Structural Engineering (SE) exam  
Architect Registration

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Examination (ARE)

In California, the Contractors State License Board CSLB protects consumers by regulating the construction industry.

According to the CSLB, anyone performing construction work in California that totals \$500 dollars



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or more in labor and materials must be licensed. Candidates are required to focus their attentions on a number of construction related topic areas but this study notes will focus on topics related to the various structural concepts, building materials and the

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relevant safety procedures. This Exam FOCUS Study Notes build a solid focus while revisiting key examination topics relevant to the construction management process. Whether you are just starting to study, cramming at the last minute, or simply looking

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to refresh, this could prove to be a lifesaver! To succeed in the contractor exam, you need to get yourself truly familiar with the most important information by going through sufficiently focused revision. This is where we fill the gap - you may think of our

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product as the unofficial supplement to the regular training class, or you may view it as a standalone module with a focus on building up your exam readiness. As an effective learning aid implemented in the format of study notes, the

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ExamFOCUS Study Notes package is designed to present information in an easy-to-understand, conversational format. Notes are well-written, technically accurate and completely representative of the key information covered by the

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exam.

Structural Engineering License  
Review For Civil and Structural  
Engineers Kaplan Publishing  
Structural Engineering License  
Review

Seismic Principles Practice Exams  
for the California Special Civil

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Engineer Examination  
PPI California Civil Seismic  
Principles Practice Exams, 12th  
Edition eText - 1 Year  
246 Solved Structural Engineering  
Problems  
Global Environmental Change and  
Human Security

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**Written by a former member of the NCEES exam development and grading committees, Structural Engineering SE All-in-One Exam Guide: Breadth and Depth offers clear explanations, real-world**

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**examples, and test preparation strategies. A complete practice exam is included, containing both multiple choice and essay questions (buildings and bridges) that are accurate to**

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**the format, tone, and content of the live exam. Coverage includes:**

- Vertical and lateral components**
- Building and bridge codes**
- Computer modeling and verification**
- Construction administration**

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**Structural analysis •  
Reinforced and prestressed  
concrete design • Masonry  
design • Foundation and  
retaining wall design •  
Structural and cold-formed  
steel design • Timber design •**

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**Seismic analysis and design •  
Wind analysis and design •  
Bridge design  
Written for candidates  
preparing for the state-  
specific structural engineering  
examinations, this volume**

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**contains problems and solutions from recent exams. Candidates for the national Structural I and II exams can use this book in conjunction with the UBC-IBC Structural Comparison & Cross**

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**Reference found on page 22.  
The book is a comprehensive  
guide and reference for self-  
study.**

**"The NCEES SE Exam is Open  
Book - You Will Want to Bring  
This Book Into the Exam. Alan**

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**Williams' PE Structural Reference Manual Tenth Edition (STRM10) offers a complete review for the NCEES 16-hour Structural Engineering (SE) exam. This book is part of a**



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**comprehensive learning  
management system designed  
to help you pass the PE  
Structural exam the first time.  
PE Structural Reference  
Manual Tenth Edition  
(STRM10) features include:**

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**Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls  
Covers all up-to-date codes**

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**for the October 2021 Exams  
Exam-adopted codes and  
standards are frequently  
referenced, and solving  
methods—including strength  
design for timber and  
masonry—are thoroughly**

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**explained 270 example  
problems Strengthen your  
problem-solving skills by  
working the 52 end-of-book  
practice problems Each  
problem's complete solution  
lets you check your own**

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**solving approach Both ASD  
and LRFD/SD solutions and  
explanations are provided for  
masonry problems, allowing  
you to familiarize yourself with  
different problem solving  
methods. Topics Covered:**

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**Bridges Foundations and  
Retaining Structures Lateral  
Forces (Wind and Seismic)  
Prestressed Concrete  
Reinforced Concrete  
Reinforced Masonry  
Structural Steel Timber**

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**Referenced Codes and  
Standards - Updated to  
October 2021 Exam  
Specifications: AASHTO LRFD  
Bridge Design Specifications  
(AASHTO) Building Code  
Requirements and**

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**Specification for Masonry  
Structures (TMS 402/602)  
Building Code Requirements  
for Structural Concrete (ACI  
318) International Building  
Code (IBC) Minimum Design  
Loads for Buildings and Other**



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**Structures (ASCE 7) National  
Design Specification for Wood  
Construction ASD/LRFD and  
National Design Specification  
Supplement, Design Values  
for Wood Construction (NDS)  
North American Specification**

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**for the Design of Cold-Formed  
Steel Structural Members  
(AISI) PCI Design Handbook:  
Precast and Prestressed  
Concrete (PCI) Seismic  
Design Manual (AISC 327)  
Special Design Provisions for**

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**Wind and Seismic with  
Commentary (SDPWS) Steel  
Construction Manual (AISC  
325)**

**The Structural Depth  
Reference Manual prepares  
you for the structural depth**

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**section of the Civil PE exam. It provides a concise, yet comprehensive review of the structural depth section exam topics and highlights the most useful equations in the exam-adopted codes and standards.**

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**Solving methods--including ASD and LRFD for steel, strength design for concrete, and ASD for timber and masonry--are thoroughly explained. Throughout the book, cross references**

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**connect concepts and point you to additional relevant tables, figures, equations, and codes. More than 95 example problems demonstrate the application of concepts and equations. Each chapter**

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**includes practice problems so you can solve exam-like problems, and the step-by-step solutions allow you to check your solution approach. A thorough index directs you to the codes and concepts**

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**you will need during the exam.**

**Topics Covered**  
**Design of**  
**Reinforced Masonry**  
**Design of**  
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**Foundations**  
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**Design**  
**Structural Steel**  
**Design**



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**Structural Depth Reference  
Manual for the Civil PE Exam  
Bulletin of Board News and  
Enforcement Actions  
PPI California Civil Seismic  
Building Design, 12th Edition  
eText - 1 Year**

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**Design of Reinforced  
Concrete Structures  
PPI PE Structural Bridges  
Practice Problems with  
Solutions – Practice Problems  
with Full Solutions for the  
NCEES PE Structural**

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## **Engineering (SE) Exam**

*Everything civil and structural engineers in California need to prepare for the seismic design topics of the Special Civil Engineering Exam and California Structural Engineering Exam. This guide*

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*emphasizes methods that lead to the  
quickest and simplest solution to any  
problem.*

*Nothing builds your confidence for an  
exam like solving problems. 246*

*Solved Structural Engineering  
Problems will help you prepare for the*

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*NCEES Structural I and II exams, the California state structural exam, and the structural module of the civil PE exam. In each chapter, problems are arranged in order of increasing complexity, offering practice levels appropriate for each of these tests.*

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*Exam topics covered are Structural Analysis Structural Concrete Structural Steel Timber Seismic Analysis Foundation Design Masonry In the structural steel chapter, problems may be solved with either the AISC ASD or LRFD method,*

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*whichever you're comfortable with.  
(The NCEES exams permit either  
method; the California exam requires  
use of both methods.) Solutions show  
all essential steps.*

*Seismic Principles explains the  
concepts that are tested on the*

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*California Seismic Principles Exam.  
With more than 200 completely  
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*Engineering I and II Exams and the California Structural Engineering Exam. Includes more than 70 problems and step-by-step solutions from recent exams; Offers 18 HP-48G calculator programs, which include 6 concrete, 3 masonry, 3 timber, 4 steel,*

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*and 2 properties of sections design programs; Reflects current publications of SEAOC and FEMA; Conforms to the 1997 edition of the UBC; Provides comprehensive clarification of applicable; Building Codes and Standard Specifications;*

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*Uses provisions of the 1999 SEAOC bluebook, 1999 FEMA Advisory No. 2, 2000 FEMA 350 Design of Steel Moment Frame Buildings, and 1997 AISC Seismic Provisions Cites extensive reference publications that reflect current design procedures*

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*Seismic Design Solved Problems  
Asbog Exam Secrets Study Guide  
Structural Engineering  
California License Review Problems  
and Solutions: Exam Preparation  
Structural Engineering Se All-In-One  
Exam Guide: Breadth and Depth,*

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*Second Edition*

**Focusing on basic skills  
and tips for career  
enhancement, Engineer  
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guide to improving  
efficiency and**

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performance in any  
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organization tips,  
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are covered, and exam-adopted codes and standards are frequently referenced.

Comprehensive Guide on  
Seismic Design for the  
California Civil Seismic

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## Principles Exam

California Civil Seismic  
Building Design, 12th  
Edition presents the  
seismic design concepts  
most essential to  
engineers, architects,

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and students of civil  
and structural  
engineering and  
architecture. The book's  
15 chapters provide a  
concise but thorough  
review of seismic

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theory, code  
application, design  
principles, and  
structural analysis.  
Topics Covered Basic  
Seismology Details of  
Seismic-Resistant

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**Structures (Concrete,  
Masonry, Steel, Wood)  
Diaphragm Theory  
Earthquake  
Characteristics Effects  
of Earthquakes on  
Structures General**

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**Structural Design**  
**Response of Structures**  
**Seismic Building Code**  
**Special Design Features**  
**Tilt-Up Construction**  
**Vibration Theory**  
**Referenced Codes and**

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360 ACI 318 ACI 530 NDS  
SDPWD ASCE/SEI7 IBC Key  
Features 30 example  
problems demonstrate how  
to apply concepts,  
codes, and equations to



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solve realistic problems  
More than 125 practice  
problems provide  
opportunities for  
independent problem-  
solving practice, and  
complete solutions allow

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you to check your  
solution approach Two  
comprehensive  
indexes—one of key terms  
and another of seismic  
building codes—to  
quickly direct you to

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the information you are looking for References throughout the text to the 150 equations, 29 tables, 144 figures, and 21 appendices, and to relevant codes and

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There's nothing like a  
practice exam to help  
you get ready for the  
real thing, and this

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book gives you two. Each 2-hour exam is designed to prepare you for the seismic questions on the California Special Civil Engineer exam. Step-by-step solutions are

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provided for all 94  
multiple-choice  
problems. Please note  
that the problems  
reference the 2001 CBC.  
License Review with  
Problems and Solutions

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**Focusing on Structural  
Concepts, Material and  
Safety**

**Problems and Solutions :  
for Civil and Structural  
Engineers**

**Civil Engineering**

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**License Review, 14th  
Edition**

**Asbog Test Review for  
the National Association  
of State Boards of  
Geology Examination**

*Practice Exams for the California*

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*Seismic Principles Civil P.E.  
Examination is a book and a  
Computer Based Test (CBT)  
simulation software to help you  
prepare for the special seismic exam  
with its new format. Three practice  
exams, each with 55 multiple choice  
questions and their solutions are*

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*provided in a manuscript format, computer simulation exam, and computer exercise exam. The solutions to the questions are provided with easy to follow, detailed explanations and illustrations. The three practice exams are designed to cover the range of topics and tasks*

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*outlined in the seismic principles test plan. The objective for you is to practice your problem solving skills under realistic time constraints and identify any subject areas that require more review or practice.*

*2012 IBC, ASCE 7-10*

*David Michhimer's PE Structural*

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*Bridges Practice Problems with Solutions (STBR) is a new book designed to help practice for Bridge questions on the PE Structural (SE) Exam. This book is a comprehensive review of different types of bridge questions you can encounter on the breadth portion of the exam.*

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*Features of this book: 77 multiple-choice questions to test your knowledge of bridge design Up-to-date with codes and references for the October 2021 PE Structural (SE) Exam Complete solutions show you step-by-step how to solve problems*

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*10th Edition - Complete Review for  
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*Engineering (SE) Exam*

*7 Key Elements to Creating an  
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Manual*

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*Registration for Professional  
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