SE EXAM STUDY GUIDE

The following is a list of recommended books to help with studying for the SE exam. The list is organized first by Codes and Design Standards, then by books that cover multiple topics, and then alphabetically by specific loading and material topics. Additional suggestions for studying and organizing notes are included at the end of the list.

CODES AND DESIGN STANDARDS

- **ASCE 7-10 Minimum Design Loads for Buildings and Other Structures**, Publisher: American Society of Civil Engineers (ASCE)
- **ACI 318-14 Building Code Requirements for Structural Concrete**, Publisher: American Concrete Institute (ACI)
- **AISC Seismic Design Manual**, 2nd edition, Publisher: AISC
- **AISI S100 North American Specification for the Design of Cold-Formed Steel Structural Members**, 2012 Edition, Publisher: American Iron and Steel Institute (AISI)
- **NDS Special Design Provisions for Wind and Seismic with Commentary**, 2015 Edition, Publisher: AWC
- **TMS 402/602-13 Building Code Requirements and Specifications for Masonry Structures** (and related commentaries), 2013, Publisher: The Masonry Society (TMS)

MULTIPLE TOPICS

- **Structural Engineering SE All-in-One Exam Guide Breadth and Depth**, Dave K. Adams, S.E., Publisher: McGraw Hill Education
- **SE NCEES Structural Engineering Practice Exam**, 2017, Publisher: NCEES
• *Structural Loads - 2012 IBC and ASCE / SEI 7-10*, 2013, Author: David Fanella, Publisher: NCSEA / ICC
• *Guide to the Design of Building Systems for Serviceability in Accordance with the 2012 IBC and ASCE 7-10*, Author: Kurt Swensson, Publisher: NCSEA / ICC

ANALYSIS METHODS

• *Numerical Structural Analysis*, 2015, Authors: O’Hara and Ramming, Publisher: Momentum Press Engineering

BRIDGE DESIGN

• *Bridge Problems for the Structural Engineering SE Exam, 2nd Edition*, Author: David Connor, SE, Publisher, David Connor
• *Bridge Design Aids*, 2008, Publisher: CALTRANS (downloadable .pdfs)
• *Moments, Shears and Reactions for Continuous Highway Bridges*, 1986, Publisher: AISC

CONCRETE

• *2015 IBC Structural/Seismic Design Manual Volume 3: Examples for Concrete Buildings*, Publisher: SEAOC / ICC
• *Concrete Design for the Civil PE and Structural SE Exams*, 3rd Edition, 2017, Author C. Dale Buckner
• *Seismic Design of Reinforced Concrete Buildings*, 2014, Author: Jack Moehle, Publisher: American Concrete Institute

FOUNDATIONS / RETAINING STRUCTURES

• *Soils, Earthwork and Foundations*, 1st Edition, 2016, Authors: Meyer and Read, Publisher, ICC

LOADS

• *Structural Loads - 2012 IBC and ASCE / SEI 7-10*, Author: David Fanella, Publisher: NCSEA / ICC
• Guide to the Design of Diaphragms, Chords, and Collectors: Based on the 2006 IBC and ASCE/SEI 7-05, Authors: Badri K. Prasad, Douglas S. Thompson, Rafael Sabelli, Publisher: NCSEA / ICC
• Guide to the Design of Out-Of-Plane Wall Anchorage: Based on the 2006/2009 IBC and ASCE/SEI 7-05, Author: Timothy W. Mays, Publisher: NCSEA / ICC

SEISMIC

• Structural Loads - 2012 IBC and ASCE / SEI 7-10, Author: David Fanella, Publisher: NCSEA / ICC
• Seismic and Wind Forces: Structural Design Examples, 4th Edition, Author: Alan Williams, Publisher: ICC
• Seismic Principles Practice Exams for the California Civil Seismic Exam, 5th Edition, 2015, Author Majid Baradar
• Seismic Design using Structural Dynamics, Authors: Ghosh and Dasgupta, Publisher: SKGA / ICC

WIND

• Guide to the Use of the ASCE 7-10 Wind Load Provisions, Authors: Mehta and Coulbourne, 2013, Publisher: ASCE
• Seismic and Wind Forces: Structural Design Examples, 4th Edition, Author: Alan Williams, Publisher: ICC
• Wind Design Manual – 2018 IBC & ASCE 7-16, Publisher: SEAOC / ICC (note: newer code than exam)

LIGHT GAGE

• 2015 IBC Structural/Seismic Design Manual Volume 2: Examples for Light-Frame, Tilt-Up and Masonry Buildings, Publisher: SEAOC / ICC
• Cold-Formed Steel Design, 4th Edition, 2010, Authors: Yu and LaBoube, Publisher: Wiley

LOADS / GRAVITY


MASONRY

• 2015 Design of Reinforced Masonry Structures, 8th Edition, Authors: Brandow, Chukwuma, and Hart, Publisher: Concrete Masonry Association of California and Nevada (CMACN)
• 2015 IBC Structural/Seismic Design Manual Volume 2: Examples for Light-Frame, Tilt-Up and Masonry Buildings, Publisher: SEAOC / ICC
• Masonry Structural Design, Authors: Tanner and Klingner, Publisher: McGraw / ICC
• 2015 Masonry Codes and Specifications Compilation, Publisher The Masonry Society (TMS)
• Masonry Designers’ Guide - 2013, Publisher: The Masonry Society (TMS)
• *Reinforced Masonry Engineering Handbook: Clay and Concrete Masonry*, 7th Edition, Authors: John M. Hochwalt and James E. Amrhein, Publisher: Masonry Institute of America

STEEL
• *2012 IBC Structural/Seismic Design Manual Volume 4: Examples for Steel-Framed Buildings*, Publisher: SEAOC / ICC
• *Steel Structures Design for Lateral and Vertical Forces*, Author: Alan Williams, Publisher: McGraw / ICC
• *Steel Design for the Civil PE and Structural SE Exams*, 3rd Edition, 2018, Author: Frederick S. Roland, Publisher: Professional Publications, Inc.
• *Steel Construction Manual Design Examples*, V14.1, Publisher: AISC (downloadable .pdf)

WOOD
• *2015 NDS Design Examples – Beams, Columns, and Beam-Columns*, Publisher: AWC

OTHER SUGGESTIONS
Create a short cut / design notebook for each material and each type of force or code area. This notebook must be bound (not staples) and no pencil versions are allowed. The following sections are recommended:

• Formula sheet – all formulas you will need listed on one or two pages to avoid flipping through multiple resources. Separate into ASD and LRFD as required.
• Favorite worked example problems

The following reference guides published by Codemasters may also be of use:

• *CodeMaster – Seismic Design (2015 IBC, ASCE 7-10)*
• *CodeMaster – Seismic Design Category (2015 IBC, ASCE 7-10)*
• *CodeMaster – Wind Design Overview (2015 IBC, ASCE 7-10)*
• *CodeMaster – Design for Snow Loads (2015 IBC, ASCE 7-10)*
• *CodeMaster – Allowable Stress Design for Masonry (2015 IBC)*

Make sure that you are familiar with what items you are allowed to bring to the exam. The following links to the NCEES website provide more information - http://ncees.org/engineering/se/ and http://ncees.org/exams/examinee-guide/