



# 16-Hour Structural Engineering (SE) Practice Exam for Buildings, 2nd Ed

By Joseph S. Schuster PE

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## 16-Hour Structural Engineering (SE) Practice Exam for Buildings, 2nd Ed

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### The Most Realistic Practice for the SE Exam

*16-Hour Structural Engineering (SE) Practice Exam for Buildings* contains two 40-problem, multiple-choice breadth exams and two four-essay depth exams consistent with the NCEES SE exam's format and specifications. The two morning breadth sections (vertical forces and lateral forces) and the two afternoon depth sections (vertical forces and lateral forces) prepare you for all four components of the exam.

Consistent with the actual exam, the multiple-choice problems in *16-Hour Structural Engineering (SE) Practice Exam for Buildings* require an average of six minutes to solve, and the essay problems can be solved in one hour. Enhance your time-management skills by taking each exam section within the same four-hour time limit as the actual exam. The solutions to the depth exams' essay problems use blue text to identify the information you will be expected to include in your exam booklet to receive full credit. The supplemental content uses black text to enhance your understanding of the solution process. Comprehensive step-by-step solutions for all problems demonstrate accurate and efficient problem-solving approaches. Solutions also frequently refer to the codes and references adopted by NCEES to help you determine which resources you'll likely use on exam day.

***16-Hour Structural Engineering (SE) Practice Exam for Buildings* will help you to**

- effectively familiarize yourself with the exam scope and format
- quickly identify accurate and efficient problem-solving approaches
- successfully connect relevant theory to exam-like problems
- efficiently navigate the exam-adopted codes and standards
- confidently solve problems under timed conditions

### Referenced Codes and Standards

- *AASHTO LRFD Bridge Design Specifications* (AASHTO)
- *Building Code Requirements for Structural Concrete* (ACI 318)
- *AISC Seismic Design Manual* (AISC)
- *Minimum Design Loads for Buildings and Other Structures* (ASCE 7)
- *Building Code Requirements for Masonry Structures and Specification for Masonry Structures* (TMS 402/602)
- *International Building Code* (IBC)
- *National Design Specification for Wood Construction ASD/LRFD* (NDS and Supplement)
- *North American Specification for the Design of Cold-Formed Steel Structural Members* (AISI Specification)
- *PCI Design Handbook* (PCI)
- *Special Design Provisions for Wind and Seismic* (SDPWS)
- *Steel Construction Manual* (AISC Manual)

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### **Editorial Review**

#### **About the Author**

Joseph S. Schuster, SE, PE, is a practicing structural engineer licensed in New York, New Jersey, Connecticut, and Illinois. He obtained a bachelor of science in civil engineering from Cornell University and a master of science in structural engineering from Stanford University. Currently, Mr. Schuster works for the national engineering firm Simpson Gumpertz & Heger, where he is involved in the structural design and renovation of steel, concrete, masonry, and wood buildings. He has also worked extensively on projects involving the repair and adaptive reuse of historic structures and has investigated several building collapses.

Simpson Gumpertz & Heger (SGH) is a national engineering firm that designs, investigates, and rehabilitates structures and building enclosures. SGH's award-winning work includes building, nuclear, transportation, water/wastewater, and science/defense projects throughout the United States and in more than 30 other countries.

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