Credit Information

Seismic Design and Construction

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Structural Dynamics for Seismic Design

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects licensed in all states.

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Live, Interactive Webinars
- Seismic Design and Construction
- Structural Dynamics for Seismic Design

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- Friday, April 16, 2021 | 8:30 am - 5:00 pm CDT

Structural Dynamics for Seismic Design
- Friday, April 30, 2021 | 8:30 am - 3:30 pm CDT

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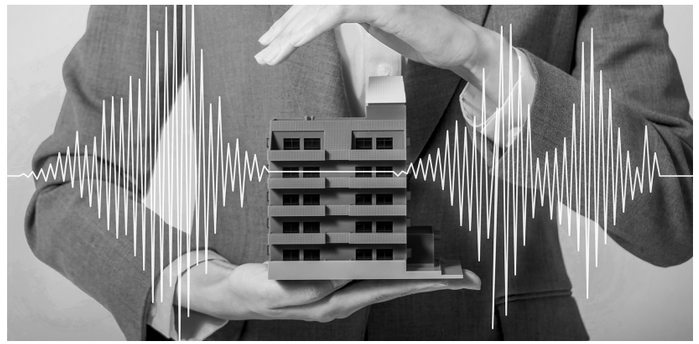

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Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
AIA: 7.0 LU|HSW International Code Council: .7 CEU (Building)

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AIA: 7.0 LU|HSW International Code Council: .7 CEU (Building)

Presented by Eugene Brislin

Seismology and Earthquake Actions
- Earthquake characteristics
- Effects of soil conditions
- Western, central, and eastern U.S. seismicity

Structural Dynamics & Response
- Ground motions and structural response
- Response spectra
- Damping
- Modal superposition analysis

Modern Philosophy of Seismic Design
- Seismic design objectives
- Inelastic response and ductility
- Proportioning

U.S. Seismic Codes
- History
- Performance objectives
- Hazard levels

ASCE 7 Seismic Design
- Mapped spectral response
- Design response spectrum
- Seismic design category and design factors
- Seismic force resisting systems
- Estimating period
- Structural irregularities
- Equivalent lateral force procedure
- Load combinations, over strength, redundancy
- Diaphragms and shear walls
- Deflection limitations

Material-Specific Seismic Force Resisting Systems
- International Building Code (IBC) provisions
- American Institute of Steel Construction (AISC 341) provisions
- American Concrete Institute for Structural Concrete (ACI 318) provisions
- American Concrete Institute for Masonry Structures (ACI 530) provisions

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Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW International Code Council: .6 CEUs (Building)

Presented by Eugene Brislin

Background
- Rigid body vs elastic body dynamics
- Math – differential equations

Single Degree of Freedom Models
- Free vibration
  - Undamped
  - Damped
- Forced vibration
  - Harmonic
  - Random
- Response spectrum

Multi-Degree of Freedom Models
- Free vibration
  - Undamped
  - Damped
- Forced vibration
  - Harmonic
  - Random

ASCE-7 Seismic Analysis Methods
- Equivalent static
- Modal
- Time history

Modal Analysis Example

Time History Analysis Example

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Faculty

Seismic Design and Construction and Structural Dynamics for Seismic Design

Eugene Brislin *Structural Engineer, Summerville, SC*

Mr. Brislin has been a professional engineer for more than 20 years and has designed many structures and performed many different types of analysis in that time. He has worked for a steel fabricator, an architectural/engineering firm and a seismic consultant and has been in private practice over 13 years. Mr. Brislin earned his BSCE degree from The Citadel in Charleston, South Carolina, and his MSCE degree from the University of South Carolina. He has completed all his course work for his PhD degree, but has not completed his dissertation. His graduate study work has been in mathematical elasticity.

Mr. Brislin has worked on a wide variety of projects from arenas such as Gund Arena in Cleveland, Ohio, and the Edward Jones Arena in St. Louis, Missouri, to renovation and seismic retrofit of the South Carolina State House and the design of the Columbia South Carolina Museum of Art. He has done stress analysis on weapons systems for the Department of Defense and has consulted on cellular telephone concealment projects.

Mr. Brislin's company routinely performs modal analysis of structures to provide more accurate seismic loads and to reduce the cost of seismic requirements through more advanced analysis techniques. The company is knowledgeable concerning structural dynamics and can perform a full dynamic analysis for complicated structures, and ductility requirements in concrete and masonry as well as welded steel moment connection requirements on toughness of steel.

Additional Learning

Deep Excavations
- Thurs., Mar. 4, 2021|8:30 am - 4:30 pm CST

Complying with Fire, Building and Mechanical Codes: Focus Fire Rated Ducts & Enclosures
- Wed., Mar. 10, 2021|7:30 am - 2:50 pm CST

Architectural Acoustics – Design and Construction
- Thurs., Mar. 11, 2021|8:30 am - 4:30 pm CST

Parking Structure Design, Construction and Maintenance
- Thurs., Mar. 11, 2021|8:30 am - 4:30 pm CST

Pumping and Piping Systems
- Thurs., Mar. 11, 2021|11:00 am - 2:15 pm CST
- Fri., Mar. 12, 2021|11:00 am - 2:15 pm CST

SketchUp for Building Professionals
- Thurs., Mar. 11, 2021|11:00 am - 2:45 pm CST
- Fri., Mar. 12, 2021|11:00 am - 2:45 pm CST

2021 International Residential Code: Residential Structural Design
- Fri., Mar. 12, 2021, 11:00 am - 3:30 pm CST

Retaining Wall Design and Global Stability Analysis
- Mon., Mar. 15, 2021|9:00 am - 5:00 pm CDT

Engineered Lumber Design and Construction
- Wed., Mar. 17, 2021|8:30 am - 5:00 pm CDT

Introduction to Green Infrastructure
- Wed., Mar. 17, 2021|11:00 am - 2:30 pm CDT
- Thurs., Mar. 18, 2021|11:00 am - 2:30 pm CDT

Residential Provisions of the International Energy Conservation Code (IECC)
- Wed., Mar. 17, 2021|8:30 am - 5:00 pm CDT

Bioretention System Design
- Fri., Mar. 19, 2021|10:00 am - 12:00 pm CDT

Considerations for Acquiring and Developing Brownfields Properties in the U.S.
- Tues., Mar. 23, 2021|1:00 - 4:00 pm CDT

Designing for Climate Resilience
- Thurs., Mar. 25, 2021|11:00 am - 2:45 pm CDT
- Fri., Mar. 26, 2021|11:00 am - 2:45 pm CDT

Threats to Trees
- Fri., Mar. 26, 2021|9:00 am - 4:30 pm CDT

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