Learning Objectives

You’ll be able to:

Examine earthquake actions, structural dynamics and response spectra.

Learn about seismic design objectives, and study the seismic design provisions of ASCE 7-10.

Discuss seismic force resisting systems.

Review material-specific design criteria for wood, steel, concrete and masonry buildings.
John Ebel - Boston College
Dr. Ebel received an A.B. degree in Physics from Harvard University in 1975 and a Ph.D. degree in Geophysics from the California Institute of Technology in 1981. Since 1983 he has been a member of the geophysics faculty at Boston College and has also carried out research at Weston Observatory. He is a past chair of the Eastern Section of the Seismological Society of America and of the New England Seismology Advisory Council, and he has been meeting program chair and secretary of the Seismology Section of the American Geophysical Union. Dr. Ebel's research interests are in the areas of earthquake hazard, earthquake source mechanisms, earthquake prediction, wave propagation studies and determination of lithospheric structure. Since 1981 he has been in charge of the New England Seismic Network of Weston Observatory of Boston College. This network, currently comprised of seismic stations that span the six New England states, is used to detect, locate, catalog and study all earthquakes that occur in New England and vicinity. Dr. Ebel's research has focused on studying the causes and effects of earthquakes in New England and vicinity, although he has also published papers on earthquake activity in other parts of the eastern United States and Canada, Europe, Mexico and the southwest Pacific. He also has conducted extensive research on methods for earthquake compensation and earthquake forecasting. Dr. Ebel has published one book and over 60 scientific papers, and he has presented over 150 professional talks in his research work, along with numerous technical reports submitted to government agencies or private firms. He has been a consultant to a number of private companies and government agencies, including Northeastern National Laboratory, the U.S. Nuclear Regulatory Commission, and Lawrence Livermore National Laboratory, on seismic hazard and nuclear test ban treaty monitoring issues. He has been a consultant on seismic hazard for over 20 major engineering projects such as highway bridges, LNG tanks, dams and other critical structures in the United States, the Bahamas, Colombia, the Dominican Republic, Honduras, Jordan, Korea, Puerto Rico, Chile and Tunisia.

Troy Morgan - Expert Failure Analysis Assoc
Dr. Morgan has a recognized expert in the field of seismic isolation and passive energy dissipation systems. He has performed extensive research on the numerical simulation and experimental behavior of innovative seismic protective devices and optimization of their use within performance-based engineering frameworks. Dr. Morgan has served as a consultant to many engineering firms, assisting with the design of essential structures including healthcare facilities, laboratories, industrial buildings, and critical infrastructure requiring sophisticated analysis techniques and the applications of advanced seismic protective systems. He has also served as the chair of both the SEAOAC Continuing Education Committee and the SEAOAC State Seismology Subcommittee on seismic isolation and supplemental damping devices. Prior to joining Exponent, Dr. Morgan was assistant professor at the Center for Urban Earthquake Engineering at the Tokyo Institute of Technology in Japan. He has taught courses at the University of California-Berkeley and San Francisco State University. He has also held positions as a post-doctoral researcher at the Pacific Earthquake Engineering Research Center and as a design engineer at Forell/Elsesser Engineers Inc. Dr. Morgan received his B.S., M.E. and Ph.D. degrees in Civil and Environmental Engineering from University of California-Berkeley. He received the NEHRP Graduate Fellowship in Earthquake Hazard Reduction in 2005; Outstanding Graduate Student Instructor Award, UC Berkeley, 2004; and the SEAONC Excellence in Structural Engineering Award 2004.

John Ebel
(508) 655-6100
342 Speen Street
Natick, MA 01760

Tuition
$279 for individual registration
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Attendance will be verified, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates are not available at the seminar to be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

Community Solar and Rooftop Solar
Wed., Sept. 5, 2018, 11:00 AM - 2:15 PM CDT

Design Your Roof Solar
Thurs., Sept. 6, 2018, 1:00 PM - 2:15 PM CDT

Seismic Design and Construction

Seismology and Building Codes
Wed., Sept. 12, 2018, 11:00 AM - 3:30 PM CDT

Seismic Design of Building Structures
Thurs., Sept. 13, 2018, 11:00 AM - 5:30 PM CDT

Small Wind Energy Systems
Small Wind Energy System Components
Thurs., Sept. 13, 2018, 11:00 AM - 1:00 PM CDT

Small Wind Energy Sizing and Sizing
Fri., Sept. 21, 2018, 11:00 AM - 1:00 PM CDT

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Tuition
$259.00 for each registrant from the same company registering at the same time - $279.00 for individual registration.

I am not attending.

Registration
Seismic Design of Buildings
Natick, MA - Tuesday, October 9, 2018

Additional Registrants:
Name: 
Occupation: 
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I need special accommodations. Please contact me.

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