



Semi-Rigid Diaphragms, Sloped Diaphragms, Simplified Dynamic Analysis of Buildings, and Design for Fork Truck Loading: Based on the 2006/2009 IBC and ASCE/SEI 7-05

COURSE DESCRIPTION:

The 2006/2009 International Building Code (IBC) and ASCE/SEI 7-05 contain a variety of requirements that are difficult for structural engineers to apply during routine practice. To make matters worse, finding practical example problems with realistic design constraints is an arduous task at best. Some of the most commonly mentioned topics include:

- Semi-rigid diaphragms (seismic and wind)
- Sloped diaphragms
- Seismic joints and sliding connections
- Simplified dynamic analysis to include alternate means and methods commonly used in design (to save the client money)
- Design and detailing for heavy wheel loads (i.e., fork trucks) on elevated slabs

Using concept oriented instruction and real world practical examples, Dr. Mays covers these topics and more in this new short course. As always, Dr. Mays uses hand calculations, simple statics, and easy to understand examples to verify the accuracy of models prior to utilizing them in the course's more complex examples. This new course is sure to challenge the young engineer to think while offering the seasoned structural engineer excellent design examples that currently do not exist in the literature. Note that a few of the topics (e.g., semi-rigid diaphragms) covered in the course require some degree of elementary computer modeling to determine seismic and wind demands. In such cases, computer results will be provided during the course and these results will not be software program specific. Most, if not all, commonly used structural analysis programs may be used to obtain the results as presented in the course.

PDHs are also approved for states with special reporting requirements (FL, NC, and NY) through NCSEA.

Space is limited. Please register early.

WHAT DO ATTENDEES RECEIVE?

- 4.0 Professional Development Hours
- Binder of Complete Course Notes and Example Problems Worked During the Course
- Access to freeware used for some topics
- Breakfast

SCHEDULE:

7:15 – 8:00	Registration and Breakfast Buffet
8:00 – 8:45	Semi-Rigid Diaphragms - Modeling
8:45 – 9:30	Semi-Rigid Diaphragms - Design and Detailing
9:30 – 10:00	Sloped Diaphragms/Seismic Joints
10:00 – 11:15	Simplified Dynamic Analysis
11:15 – 12:00	Elevated Slab Design for Heavy Wheel Loads

COURSE INSTRUCTOR:

Timothy Wayne Mays, Ph.D., P.E. is President of SE/ES and an Associate Professor of Civil Engineering at The Citadel in Charleston, SC. Dr. Mays recently served as Executive Director of the Structural Engineers Associations of South Carolina and North Carolina. He currently serves as NCSEA Publications Committee Chairman. He has received two national teaching awards (ASCE and NSPE) and both national (NSF) and regional (ASEE) awards for outstanding research. He is the recipient of the 2009 NCSEA Service Award. He is a prolific speaker who sits on several code writing committees and his areas of expertise are code applications, structural design, seismic design, steel connections, structural dynamics, and civil engineering aspects of antiterrorism.



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Registration Form

March 28, 2012

**The Federal Reserve Bank, Pennsylvania Room, 3rd Floor
100 North 7th Street, Philadelphia**

IMPORTANT: Enter the Federal Reserve on 7th Street and Bring Photo ID

To Register, please complete the application below and mail it with your payment to DVASE,
1231 Highland Avenue, Fort Washington, PA 19034.

Name: _____
 Company: _____
 E-mail: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Daytime Phone: _____
 Fax: _____
 Amount Enclosed with Check: _____
 Florida License Number (for reporting hours): _____



COST:
EARLY BIRD – REGISTER AND PAY BY MARCH 12:

\$150 – DVASE MEMBERS

\$175 – Non-Members

BEGINNING MARCH 13:

\$175 – DVASE MEMBERS

\$200 – Non-Members

Discounts are available for firms sending multiple attendees. Please call Patty Russo (215) 628-9844 if you are sending 3 or more registrants from the same firm.

Enter Additional Attendee Names Here: _____

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