



Alternate Means & Methods in Accordance with the 2012/2015 IBC

COURSE DESCRIPTION:

Unfortunately, some of the most important yet commonly disregarded sections of the building and residential codes in the United States are those dealing with alternate means and methods (AM&M) in regards to materials and design approaches. These provisions are intended to allow the use of new materials, advanced technology, and design approaches that result in code compliant designs that may not meet the prescriptive requirements in the codes. AM&M designs often offer significant construction cost savings to the client while resulting in a final design that better meets the intent of the code's prescriptive design philosophy. Authored by Timothy W. Mays, Ph.D., P.E., *Alternate Means and Methods: Practical Applications to Engineering Design* is a comprehensive and example filled design guide on everything from simplified to extremely detailed applications of alternate means and methods to the design of structural systems. The new, standalone publication contains page after page of comprehensive technical content and easy to read theoretical applications followed by practical, fully worked out, design examples.

This course is a one of a kind introduction to the alternate means and methods process as stipulated in the 2015/2018 International Building Code (IBC) and the 2015/2018 International Residential Code (IRC). The course begins with a detailed overview of the alternate means and methods provisions, the rationale for their use, and current practice as utilized in the United States. Problems inherent with the prescriptive nature of the IBC and the IRC are discussed (with examples) and the need for a performance based approach is argued. Example applications included in this course include: designing lateral force resisting systems not listed in the code, justifying that prescriptive code provisions can be neglected in certain applications, using design approaches not presented in the code and its referenced standards, using new materials not listed in the code, and performance based design for fire. Each design example includes an overview of applicable code provisions, a discussion of appropriate analysis and design requirements, determination of key system demands, and design of select example elements contained in the building's load path.

Course hours are approved for all states including FL and NY through the National Council of Structural Engineers Associations. All attendees will receive one copy of *Alternate Means and Methods: Practical Applications to Engineering Design*.

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
- Breakfast
- Textbook is included!

SCHEDULE (BREAKS WILL OCCUR BETWEEN ALL SESSIONS):

7:30 – 8:00	Registration and Breakfast
8:00 – 8:45	Introduction to AM&M
8:45 – 9:30	Fallacies with Prescriptive Design
9:30 – 10:45	AM&M Examples Part I
10:45 – 12:00	AM&M Examples Part II

COURSE INSTRUCTOR:

Timothy Wayne Mays, Ph.D., P.E. is President of SE/ES and a Professor of Civil Engineering at The Citadel in Charleston, SC. Dr. Mays previously 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 three national teaching awards (ASCE, NSPE, and NCSEA) 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 participates in code development and his areas of expertise are code applications, structural design, seismic design, steel connections, structural dynamics, and civil engineering aspects of antiterrorism.



Structural Engineering
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Structural Engineers Associations



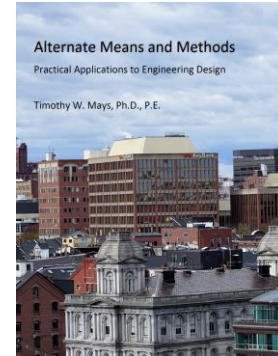
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Registration Form

DATE AND LOCATION:

**WEDNESDAY,
MARCH 14, 2018 @ 7:30AM**

JACOBS
2301 CHESTNUT STREET
PHILADELPHIA, PA 19103



To Register, please complete the application below and mail it with your payment to DVASE at 1231 Highland Avenue, Fort Washington, PA 19034. You may also pay via PayPal using the link in the cover email.

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

COST:

EARLY BIRD – REGISTER AND PAY BY FEBRUARY 27, 2018

\$175 – DVASE MEMBERS

\$205 – NON-MEMBERS

BEGINNING FEBRUARY 28TH

\$195 – DVASE MEMBERS

\$225 – NON-MEMBERS

Discounts are available for firms sending multiple attendees. (Registration fee is \$110 per person for additional attendees – without book and course materials.) Please call DVASE office @215-628-9844 x104 if you are sending 3 or more registrants from the same firm. Enter Additional Attendee Names here: _____

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