



Alternate Means & Methods in Accordance with the 2015/2018 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. Please note that although adequate theoretical background is given during the course, those wanting a more developed understanding of the applications (with more examples) should definitely purchase the optional course text.

Course hours are approved for all states including FL and NY through the National Council of Structural Engineers Associations. All attendees may elect to purchase one copy of *Alternate Means and Methods: Practical Applications to Engineering Design* at a reduced cost of only \$69 (that is a significant savings off the yet to be released cover price). If you want a better understanding of the dynamic analysis and design of a variety of structural systems from one source that ties it all together, you don't want to miss this opportunity.

Space is limited. Please register early.

WHAT DO ATTENDEES RECEIVE?

- 4.0 Professional Development Hours
- Binder of complete course notes
- Afternoon snacks
- **Optional** Textbook for only \$69!

SCHEDULE:

12:30 – 1:00	Registration
1:00 – 1:45	Introduction to AM&M
1:45 – 2:30	Fallacies with Prescriptive Design
2:30 – 3:45	AM&M Examples Part I
3:45 – 5:00	AM&M Examples Part II

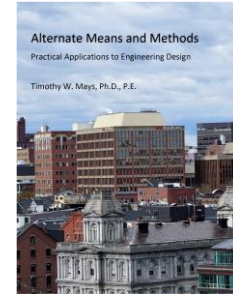
COURSE INSTRUCTOR:

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.



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Registration Form



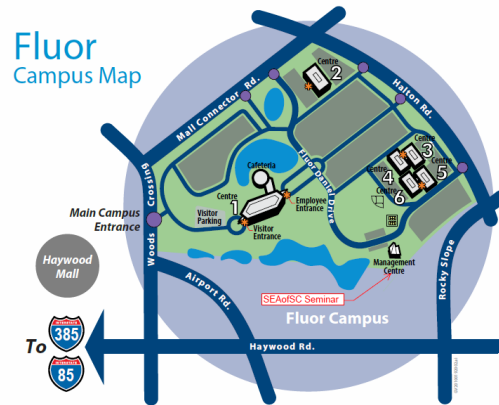
DATE AND LOCATION:

March 16, 2018 – Greenville, SC
Fluor Management Center
150 Fluor Daniel Drive

To Register, please complete the application below and E-mail it to timothymays@bellsouth.net. Confirmation packages will be delivered by E-mail. E-mail questions directly to Timothy Mays, Ph.D., P.E. Please mail the completed form with a check to the address at the bottom of this page. All checks should be made payable to SE/ES.

Name: _____
Company: _____
E-mail: _____
Address: _____
City: _____ State: _____ Zip: _____
Daytime Phone: _____
Fax: _____
Amount Enclosed with Check: _____

Note: For 2018, SE/ES is only accepting payment by check. Dr. Mays apologizes for the inconvenience but maintaining the credit card service was extremely expensive. If you need to bring the check to the event, that is fine, but please submit the form prior to the early registration deadline to qualify for the reduced cost advertised below.



Signature: _____

COST:

\$139 - if received by March 2, 2018
\$159 - if received after March 2, 2018
\$49 - unemployed and full-time student special rate

\$30 discount for each additional registration from the same company (e.g., 3 people from the same company pay 1 x \$139 + 2 x \$109 = \$357)

Optional: Please place an "X" on the line below if you want to receive the textbook for an additional \$69. Please note the correct total on the "amount enclosed" line.

Structural Engineering and Education Solutions, LLC
1536 Clarendon Way Mt. Pleasant, SC 29466
Email: timothymays@bellsouth.net
Tel: 843.813.6884