



Pile Cap Analysis, Design, and Detailing in Accordance with the 2012/2015 IBC and ACI 318-11/14

COURSE DESCRIPTION:

Authored by Timothy W. Mays, Ph.D., P.E. and heavily peer reviewed by national and international experts in deep foundation design and construction, *Pile Cap Design Guide* published cooperatively by CRSI and DFI is much more than an updated version of Chapter 13 of the very popular *CRSI Design Handbook* (2008). The new, standalone publication contains over 150 pages of comprehensive technical content and practical design examples utilizing approximately 30 different, yet commonly used, pile cap configurations. All relevant code provisions for pile caps including those related to the interaction among pile caps, columns, and piles of different material types (concrete, steel, and timber) under combined vertical loading, lateral loading, and overturning is included in this guide. Tabulated designs are also provided for all aforementioned pile cap configurations and a wide range of vertical loading, lateral loading, and overturning effects. A new software program based on the design guide is also provided (at no additional charge) to those attendees electing to purchase the publication.

Part I of the course provides a thorough overview of pile cap analysis, design, and detailing in accordance with the latest codes and standards. Part II of the course covers vertical load design of pile caps and uses practical design examples to show how all relevant limit states should be considered. Part III expands the previous portion of the course to include lateral loads and overturning. Part IV highlights proper use of tabulated design details for vertical and lateral loads and provides example applications of the software program which allows the user to alter the assumptions made in the tabulated design solutions.

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 *Pile Cap Design Guide* at a reduced cost of only \$49 (that is a savings of \$25 off the cover price and includes the fully operational pile cap design software as well). If you want a better understanding of pile cap behavior for vertical and lateral loading and access to the latest tools to design pile caps more efficiently and economically, 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 and example problems worked during the course
- Access to freeware used for some topics
- Breakfast Buffet
- Optional \$65 Textbook (*Pile Cap Design Guide*) for only \$49!

SCHEDULE:

- 7:30 – 8:00am Registration
- 8:00 – 9:00 Pile Cap Design and Analysis
- 9:00 – 10:15 Design of Pile Caps for Vertical Loads
- 10:15 – 11:00 Design of Pile Caps for Lateral Loads
- 11:00 – 12:00 More Practical Examples

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 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 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.



Structural Engineering
and Education Solutions, LLC

National Council of
Structural Engineers Associations



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Registration Form

DATE AND LOCATION:

THURSDAY

MARCH 26, 2015 @ 7:30AM

JACOBS

**2301 CHESTNUT STREET
PHILADELPHIA, PA 19103**

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): _____

Optional: Please place an "X" on the line below if
you want to receive the textbook (and software)
for an additional \$49. Please note the correct
total on the "amount enclosed" line.

COST:

EARLY BIRD – REGISTER AND PAY BY MARCH 15:

\$160 – DVASE MEMBERS

\$195 – Non-Members

BEGINNING MARCH 16:

\$185 – DVASE MEMBERS

\$220 – Non-Members

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

Enter Additional Attendee Names Here: _____

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