What’s New from ACI

TECHNICAL DOCUMENTS

Field Reference Manual—MNL-15(16) (Formerly SP-15)

The American Concrete Institute’s newest Field Reference Manual is a compilation of ACI 301-16, Specifications for Structural Concrete, and additional ACI documents on measuring, mixing, transporting, and placing concrete; concrete pumping methods; hot- and cold-weather concreting; consolidation; and concrete formwork. ACI 301-16 requires that the contractor keep a copy of this manual in the field office of any project where ACI 301 is specified.

Specifications for Structural Concrete (Metric)—301M-16

This is a Reference Specification that the Architect/Engineer can apply to any construction project involving structural concrete by citing it in the Project Specifications. A mandatory requirements checklist and an optional requirements checklist are provided to assist the Architect/Engineer in supplementing the provisions of this Specification as required or needed by designating or specifying individual project requirements.

Guide to Simplified Design for Reinforced Concrete Buildings—314R-16

This guide presents simplified methods and design techniques that facilitate and speed the engineering of low-rise buildings within certain limitations. Material is presented in an order that follows typical design process with procedures introduced as the designer will need them in the course of a building design.

Guide for the Analysis, Design, and Construction of Elevated Concrete and Composite Steel-Concrete Water Storage Tanks—371R-16

This guide presents recommendations for materials, analysis, design, and construction of concrete-pedestal elevated water storage tanks, including all-concrete and composite tanks. Composite tanks consist of a steel water storage vessel supported on a cylindrical reinforced concrete pedestal.

Report on Design and Construction with Insulating Concrete Forms (ICFs)—560R-16

The focus of this report is on insulating concrete forms (ICFs) for walls. Due to the variability of these manufactured form systems, this report does not attempt to address every ICF type, but provides a commentary on those systems most prevalent in the market, and insight, as well as additional information, relative to their use in design and construction.

The Reinforced Concrete Design Handbook (Student Edition)—SP-17(14)

ACI is offering a Student Edition of its popular SP-17, “The Reinforced Concrete Design Handbook.” The Student Edition contains excerpts from the full edition of the document covering the topics that are most likely to be covered in a student’s first reinforced concrete design course. The full narrative from several chapters and many of the basic design examples from those chapters, along with applicable design aids, are included.

Please Note: You must be a current ACI student member to receive student member pricing.

Structural Integrity and Resilience—SP-309

This symposium publication includes eight papers that were presented during two sessions at the fall 2014 ACI Convention in Washington, DC. The sessions highlight the importance of structural integrity and resilience of reinforced concrete and precast/prestressed structures subjected to extreme loading conditions.

ACI UNIVERSITY ONLINE COURSES

Ternary Blends and More

Learning objectives:
1. Explain the synergistic effects of using multiple supplementary cementitious materials (SCMs) in a concrete mixture.
2. Recall methodologies for evaluating ternary and quaternary blends of materials for use in concrete.
3. Describe considerations for construction using ternary and quaternary blends of materials in concrete.
4. Identify approaches to specifying ternary and quaternary blends of materials for use in concrete.

Continuing Education Credit: 0.1 CEU (1 PDH)

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