What's New

Guide for the Design and Construction of Durable Concrete Parking Structures—ACI 362.1R-12

This guide presents design and construction criteria used to improve the durability of concrete parking structures. Emphasis is placed on key design criteria unique to parking structures, including structural systems, materials, structural design, durability, and construction. Also covered are cast-in-place nonprestressed concrete, cast-in-place post-tensioned concrete, and precast/prestressed concrete structural systems for use in parking structures. Available in hard copy or PDF format.

Order Code: 362112.CI
Pages: 24
Price: $64.50 (ACI members $39.00)

The Economics, Performance, and Sustainability of Internally Cured Concrete—SP-290 CD

This CD consists of 14 papers presented at the ACI Fall Convention, Toronto, ON, Canada, October 2012, and sponsored by ACI Committees 130, Sustainability of Concrete; 213, Lightweight Aggregate and Concrete; and 231, Concrete Properties at Early Ages. The papers cover the following general topics: impact on sustainability, mixture proportioning, internal curing methods and their implementation, hydration impacts, volume change effects, mechanical properties, cracking tendency, durability aspects, life-cycle cost analysis, and case studies that document the use of internal curing in full-scale production applications.

Order Code: SP290CD.CI
Format: CD
Price: $84.50 (ACI members $51.00)

What's Coming Winter 2012

Code Requirements for Design and Construction of Concrete Structures for the Containment of Refrigerated Liquefied Gases and Commentary—ACI 376-11

Tenth International Conference on Superplasticizers and Other Chemical Admixtures—SP-288

Twelfth International Conference on Recent Advances in Concrete Technology and Sustainability Issues—SP-289

Guide for Evaluation and Repair of Unbonded Post-Tensioned Concrete Structures (Published by the Post-Tensioning Institute and International Concrete Repair Institute)

This guide provides an introduction to the evaluation and repair of existing concrete structures post-tensioned with unbonded single-strand tendons. It is intended to familiarize owners, licensed design professionals, contractors, suppliers, and other interested parties with the procedures, tests, equipment, and other aspects of the evaluation and repair process.

This guide demonstrates how the strength and serviceability of a structure that has experienced deterioration can be evaluated and restored to its original or greater strength and serviceability.

Order Code: GERUP.CI
Pages: 53
Price: $67.50 (no discounts on industry publications)

Guide Specification for Grouted Post-Tensioning (Published by the Post-Tensioning Institute/American Segmental Bridge Institute)

This document includes all aspects of materials, installation, stressing, and corrosion protection levels for grouted post-tensioning systems. Requirements for field personnel are also stated, as the knowledge of all involved contributes to building durable structures. The aim is to have this new Specification adopted by most State Departments of Transportation (DOT), simplifying the approval process for the systems used in different areas of the country while allowing for local environmental conditions. Designers will also find this book useful in preparing the Project Specifications.

Order Code: GSGPT.CI
Pages: 25
Price: $50.00 (no discounts on industry publications)

Specification for Grouting of Post-Tensioned Structures (Published by the Post-Tensioning Institute)

This specification provides minimum requirements for the selection, design, and installation of cementitious grouts and ducts for post-tensioning systems used in concrete construction. It is intended for use in a wide variety of structure types, including bridges, containment structures, and buildings. The 2012 edition includes significant updates, including chloride testing, inclined tube testing, material certification requirements, prohibition of tendon flushing, pumping pressure, and personnel qualification.

Order Code: SGPS.CI
Pages: 60
Price: $45.00 (no discounts on industry publications)