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Design and Control of Concrete Mixtures, 14th Edition
The authoritative resource on concrete. The 14th edition of this classic publication from PCA has been extensively updated and expanded. This manual on concrete technology and practice covers it all, beginning with the fundamentals to the specifics of materials, mixing, placing, testing, and new developments. Refers to applicable ASTM, AASHTO, and ACI standards. An excellent reference for trainers and specifications writers, producers, contractors, and engineers. 2002 (rev. 2008), 372 pages.
EB001 - $80

Design and Control of Concrete Mixtures CD
The definitive resource on modern concrete conveniently packaged on CD. Easily searchable, it provides quick access to the entire text, figures, tables, and extensive glossary of the popular book. Referenced PCA publications are linked and included on the CD. All chapters are also presented in a familiar PowerPoint slide format adding a useful training element to this extensive manual. 2009.
CD100 - $80

Canadian Editions*

Design and Control of Concrete Mixtures, 7th Edition*
The Canadian edition of the premier publication on concrete, presented in English. This encyclopedic text on concrete technology covers all aspects of prescribing, designing and working with concrete. Uses Canadian Standards Association (CSA) criteria and test methods throughout the publication. 2002 (rev. 2008), 368 pages.
EB101 - $80

Design and Control of Concrete Mixtures / Dosage et contrôle des mélanges de béton CD*
English and French Canadian edition of PCA’s premier publication conveniently packaged on CD. Easily searchable, it provides quick access to the entire text, figures, tables, and extensive glossary of this definitive resource. Uses Canadian Standards Association (CSA) criteria and test methods throughout the publication. Chapters are also presented in a PowerPoint slide format along with short instructional videos. 2008.
CD101 - $80

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Diseno y Control de Mezclas de Concreto
The Spanish edition of PCA’s premier publication is an excellent guide for working with the world’s most widely used construction material. This definitive manual of concrete technology covers all aspects of materials and applications, from the basics to finishing touches and techniques. References relative ASTM, AASHTO, ACI, and Central and South American standards. An excellent guide for the entire construction team. 2004, 456 pages.
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## Concrete Construction and Materials

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<tr>
<th>Title</th>
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<tr>
<td><strong>Concrete Finisher's Guide</strong></td>
<td>The ultimate guidebook for working on concrete flatwork and steps. Expanded from the former Cement Mason's Guide, this updated manual outlines standard practices and procedures for common interior and exterior concrete projects such as sidewalks, driveways, patios, and floors. A perfect companion for the novice, apprentice, or expert. 2006, 88 pages.</td>
<td>EB122 - $30</td>
</tr>
<tr>
<td><strong>Concrete Principles, 2nd edition</strong></td>
<td>Intended primarily as a teaching tool this comprehensive book provides an overview of the tools, materials, and practices commonly used in the concrete industry. The new 2nd edition offers significant added content in areas such as self-consolidating and pervious concrete, ICFs, and sustainable design. An interactive CD at the back contains quizzes for each chapter, flash cards, video clips, and other content. Published by American Technical Publishers. 2009, 372 pages.</td>
<td>LT251 - $65</td>
</tr>
<tr>
<td><strong>Mass Concrete for Buildings and Bridges</strong></td>
<td>Understanding the implications of using mass concrete is critical to producing buildings and bridges for a long service life. This guide provides information on how to manage concrete temperatures and prevent or minimize temperature-related cracking. An excellent resource for structures featuring high-performance concrete or built according to fast-track construction practices. 2007, 44 pages.</td>
<td>EB547 - $30</td>
</tr>
<tr>
<td><strong>Portland, Blended, and Other Hydraulic Cements</strong></td>
<td>Get the facts on the various types of cement (Portland, hydraulic, masonry, and expansive cements), the raw materials included, and the manufacturing process. This informative publication details the physical and chemical properties of cement and how to select the appropriate cement type. Can be downloaded as a PDF. 2008, 40 pages.</td>
<td>IS004 - $25</td>
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<tr>
<td><strong>Effects of Cement Characteristics on Concrete Properties, 2nd Edition</strong></td>
<td>Learn about how the chemical composition and physical properties of cement have an impact on fresh and hardened concrete issues as well as durability considerations. This document covers common issues such as workability, strength, and sulfate resistance based on various cement characteristics. A must-have document for specifiers. 2006, 42 pages.</td>
<td>EB226 - $30</td>
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<tr>
<td><strong>Optimizing the Use of Fly Ash in Concrete</strong></td>
<td>Find out how to optimally integrate fly ash in the concrete mix design without compromising quality. The appropriate amount of this industrial by-product varies on the application, weather conditions, construction practices, and exposure conditions. Features case studies on some of the more demanding applications. 2007, 24 pages.</td>
<td>IS548 - $25</td>
</tr>
<tr>
<td><strong>Concrete</strong></td>
<td>The title says it all. This in-depth book examines the material properties of the world's most durable and versatile construction material. Written by a team of highly regarded experts in the field of concrete technology with a special focus on the latest concrete innovations. Published by Prentice Hall. 2002, 644 pages.</td>
<td>LT269 - $122</td>
</tr>
</tbody>
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**DURABILITY**

**Effects of Substances on Concrete and Guide to Protective Treatment**
Know what chemicals can attack concrete and how to protect it. This informative document evaluates the effect of nearly 250 substances on concrete and recommends methods to improve durability by resisting and dealing with attacks. Can be downloaded as a PDF. 2007, 36 pages.

IS001 - $25

**Concrete Slab Surface Defects: Causes, Prevention, Repair**
Describes the causes, prevention, and repair of 10 common concrete slab surface defects: dusting, scaling, popouts, crazing, cracking, discoloration, blisters, spalling, low spots, and curling. Describes how petrographic (microscopical) analysis can be used to determine the cause of most concrete defects. Can be downloaded as a PDF. 2001, 16 pages.

IS177 - $15

**Types and Causes of Concrete Deterioration**
This practical guide is a clear and concise overview of each type and cause of concrete deterioration. Examples include corrosion of embedded metals, freeze/thaw, alkali-aggregate reactivity, abrasion, fire, restraint to volume changes, overload and impact, loss of support, and surface defects. 2002, 16 pages.

IS536 - $15

**Specifier's Guide to Durable Concrete**
A worthy companion to Design and Control of Concrete Mixtures. This guide will help the practitioner select materials and mix design parameters to achieve durable concrete in a variety of environments. Ideal for those responsible for writing and implementing concrete specifications. 2005, 72 pages.

EB221 - $30

**Diagnosis and Control of Alkali-Aggregate Reactions in Concrete**
This document provides leading edge approaches to maintain concrete durability with efficient, effective control of alkali-aggregate reaction (AAR). The reader will learn about material characteristics, appropriate testing methods, and control measures. Can be downloaded as a PDF. 2007, 26 pages.

IS413 - $17

**RESEARCH LIBRARIES**

**Concrete Research Library, 2008 Edition**
A searchable compendium of more than 1,200 PCA concrete research reports dating from 1916 to 2008. Includes reports of historical significance as well as reports on the most common concrete topics such as durability, sustainability, and structural design. 2008.

DVD021 - $100

**Cement Research Library, 2008 Edition**
A compilation of nearly 2000 technical papers and research reports issued from 1916 to 2008 on the chemistry, technology, properties, and manufacture of portland and other cements. Additional select PCA publications related to cement properties, cement manufacture, safety, environment, and energy technology. 2008.

DVD025 - $125

**PCA Archival Literature, Vol. 1**
This is a completely new compilation of nearly 700 archived technical publications from PCA. In contrast to the research focus of PCA's Concrete Research Library, this collection emphasizes technical and practical guidance for the engineer and concrete construction professional. 2008.

DVD024 - $100

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Pervious Concrete Pavements
Learn how to recharge groundwater and minimize stormwater runoff with one of PCA's best-selling publications on the increasingly popular practice of porous concrete pavements. This introduction to pervious concrete reviews its applications, structural properties and durability, and environmental benefits. 2004, 36 pages.
EB302 - $40

Hydrologic Design of Pervious Concrete
Understanding the appropriate applications and environments for pervious concrete pavements also requires an understanding of hydrological design. This publication explains the inter-relationship between runoff characteristics, material characteristics, and site geometry. A useful resource for civil engineers, landscape architects, permit granting agencies, developers, and owners. 2007, 72 pages.
EB303 - $30 pdf only

Pervious Concrete: Hydrological Design and Resources CD
This convenient CD includes multiple technical and promotional resources on pervious concrete and a hydrological analysis program for simple applications. This offering is an excellent educational and informational resource to address specifying, proportioning, production, and placement of pervious concrete. 2007.
CD063 - $85

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Porous Pavements
This helpful publication explains and evaluates all types of porous pavement—concrete, asphalt, paving blocks, and others. Includes installation methods and numerous case studies. An excellent resource for landscape architects, civil engineers, and contractors. Published by CRC Press. 2005, 577 pages.
LT291 - $169.95
**CONCRETE FLOORS**

Concrete Floors on Ground, 4th Edition
Long-term performance of concrete floors is no accident. Various factors affecting slab thickness and other design elements such as joints and subgrade considerations need attention. Geared to designers, this expanded fourth edition describes the design, construction, and repair of concrete floors on ground emphasizing attaining the best possible balance among service requirements, cost, and maintenance. 2008, 256 pages. EB075 - $85

Concrete Floors and Moisture, 2nd Edition
Controlling moisture in concrete floors is imperative to avoid deterioration, microbial growth, and other problems. This publication will help specifiers, builders, finishers, and others better understand moisture issues and best practices in order to build successful concrete floors with a long service life. 2008, 172 pages. EB119 - $85

**Resurfacing Concrete Floors**
Build green by resurfacing floors and avoid the time, money, and waste of replacement. This brief will advise when to choose from fully bonded or unbonded concrete overlays. Appropriate for light- or heavy-duty floors. Among other issues, also covers preparation, finishing, and self-leveling. 1996, 8 pages. IS144 - $10

**QC/TESTING & INSPECTION**

Tips on Control Tests for Quality Concrete
This practical guide gives you the inside tips on performing 22 ASTM and AASHTO concrete and aggregate quality control tests, such as air content, moisture content of aggregates, and compressive strength testing. Describes when to perform the tests, equipment needed, and relevant precautions to avoid errors. Can be downloaded as a PDF. 2002, 16 pages. PA015 - $15

Lab and Exercise Manual of Concrete Construction CD
This manual offers students and other users a better understanding of concrete as a construction material. The quality of different types of concrete and various mix designs are examined through 20 laboratory sessions, with testing, adapted from, and in accordance with ASTM standards. 2008. CD073 - $90

Significance of Tests and Properties of Concrete and Concrete-Making Materials (STP169D)
This encyclopedic publication is a must-have reference for the cement and concrete industry professional producing, using, or testing materials in conformance with ASTM specifications. A group of distinguished experts detail the latest technologies over 56 chapters. Includes information that can help avoid headaches and avert disasters. 2006, 645 pages. LT205 - $149
Concrete Technology

**DECORATIVE CONCRETE**

**Finishing Concrete with Color and Texture**
Originally prepared for concrete contractors, this basic guide will help anybody create beautiful, decorative surfaces on concrete slabs. 200+ photographs help illustrate construction procedures for various decorating techniques including coloring, texturing, stamping, and staining concrete. 2004, 72 pages.

PA124 - $35

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- Concrete Laboratory Testing Technician Grade I
- Concrete Laboratory Testing Technician Grade II
- Field Aggregate Testing Technician
- Laboratory Aggregate Testing Technician
- Concrete Transportation Construction Inspector
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- Fly Ash, Slag, Silica Fume, and Natural Pozzolans – March 11, 2010
- Mixing Water for Concrete – April 15, 2010
- Aggregates for Concrete – May 27, 2010
- Admixtures for Concrete – June 17, 2010

New webinars are added regularly. Check out our website, http://www.cement.org/learn/in_webinar_schedule.asp, for more information.
An organization of cement companies to improve and extend the uses of portland cement and concrete through market development, engineering, research, education, and public affairs work.