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This book is a collection of select
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papers presented at the Tenth Structural Engineering Convention 2016 (SEC-2016). It comprises plenary, invited, and contributory papers covering numerous applications from a wide spectrum of areas related to structural engineering. It presents

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contributions by academics, researchers, and practicing structural engineers addressing analysis and design of concrete and steel structures, computational structural mechanics, new building materials for sustainable construction, mitigation of

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structures against natural hazards, structural health monitoring, wind and earthquake engineering, vibration control and smart structures, condition assessment and performance evaluation, repair, rehabilitation and retrofit of structures. Also covering advances

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in construction techniques/
practices, behavior of structures
under blast/impact loading, fatigue
and fracture, composite materials
and structures, and structures for
non-conventional energy (wind and
solar), it will serve as a valuable
resource for researchers, students

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and practicing engineers alike.
Geotechnical Engineering of Dams,
2nd edition provides a
comprehensive text on the
geotechnical and geological
aspects of the investigations for
and the design and construction of
new dams and the review and

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assessment of existing dams. The main emphasis of this work is on embankment dams, but much of the text, particularly those parts related to g

Engineers need to be familiar with the fundamental principles and concepts in materials and

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structures in order to be able to design structures to resist failures. For 4 decades, this book has provided engineers with these fundamentals. Thoroughly updated, the book has been expanded to cover everything on materials and structures that engineering

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students are likely to need. Starting with basic mechanics, the book goes on to cover modern numerical techniques such as matrix and finite element methods. There is also additional material on composite materials, thick shells, flat plates and the vibrations of

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complex structures. Illustrated throughout with worked examples, the book also provides numerous problems for students to attempt. New edition introducing modern numerical techniques, such as matrix and finite element methods
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engineering undergraduate course
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structures

Handbook of Geotechnical
Investigation and Design Tables
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addresses the behavior of reinforced concrete materials, components, and systems subjected to routine and extreme loads, with an emphasis on response to earthquake loading. Design methods, both at a basic

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level as required by current building codes and at an advanced level needed for special problems such as seismic performance assessment, are described. Data and models useful for analyzing reinforced concrete structures as

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**throughout the 9th edition
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Solutions Manual

Building Code Requirements for

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Design Code

CEB-FIP Model Code 1990

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**Development of a Probability
Based Load Criterion for
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international
workshop“Designing and**

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**Building with Ultra-High
Performance Fibre-
Reinforced Concrete
(UHPFRC): State of the
Art and Development”,
organized by AFGC, the
French Association**

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**for Civil Engineering and
French branch of fib, in
Marseille
(France), November 17-18,
2009. This workshop was
focused on the
experience of a lot of**

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**recent UHPFRC
realizations. Through
more than 50 papers, this
book details the
experience of many
countries in UHPFRC
construction and design,**

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**including projects from
Japan, Germany,
Australia, Austria, USA,
Denmark,
the Netherlands, Canada...
and France. The projects
are categorized as novel**

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structural components,
and extending the
servicelife of structures.
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results, durability and
sustainability aspects,
and the updated
AFGC Recommendations
on UHPFRC.**

This book examines the

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application of strut-and-tie models (STM) for the design of structural concrete. It presents state-of-the-art information, from fundamental theories to practical

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**engineering applications,
and also provides
innovative solutions for
many design problems
that are not otherwise
achievable using the
traditional methods.**

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**This practical handbook
of properties for soils and
rock contains, in a
concise tabular format,
the key issues relevant to
geotechnical
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in common practice. In
addition, there are brief
notes on the application
of the tables. These data
tables are compiled for
experienced geotechnical**

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**professionals who require
a reference document to
access key information.
There is an extensive
database of correlations
for different applications.
The book should provide**

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**a useful bridge between
soil and rock mechanics
theory and its application
to practical engineering
solutions. The initial
chapters deal with the
planning of the**

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**geotechnical
investigation, the
classification of the soil
and rock properties and
some of the more used
testing is then covered.
Later chapters show the**

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reliability and correlations that are used to convert that data in the interpretative and assessment phase of the project. The final chapters apply some of

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**these concepts to
geotechnical design. This
book is intended
primarily for practicing
geotechnical engineers
working in investigation,
assessment and design,**

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**but should provide a
useful supplement for
postgraduate courses.
Designing and Building
with UHPFRC
Building Code
Requirements for**

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Recent Advances in
Structural Engineering,
Volume 1
ACI Structural Journal
Reinforced Concrete with**

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FRP Bars

The theory of reinforced concrete design is presented as a direct application of the laws of statics and behavior of reinforced concrete. This book emphasizes that a successful design must not only satisfy the design

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equations, but practical construction aspects as well. Covering basic undergraduate level concepts and more advanced topics, this book includes detailed treatments of flexure, shear, development and columns at a level suitable for undergraduate use, as well

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as the more difficult areas of strain compatibility solutions of beams, P-(Delta) analyses of frames, strut-and-tie models, and design for earthquake resistance. The numerous examples are all worked out completely, step-by-step.

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This revised, fully updated second edition covers the analysis, design, and construction of reinforced concrete structures from a real-world perspective. It examines different reinforced concrete elements such as slabs, beams, columns, foundations,

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basement and retaining walls and pre-stressed concrete incorporating the most up-to-date edition of the American Concrete Institute Code (ACI 318-14) requirements for the design of concrete structures. It includes a chapter on metric system in

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reinforced concrete design and construction. A new chapter on the design of formworks has been added which is of great value to students in the construction engineering programs along with practicing engineers and architects. This second edition also

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includes a new appendix with color images illustrating various concrete construction practices, and well-designed buildings. The ACI 318-14 constitutes the most extensive reorganization of the code in the past 40 years. References to the various

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sections of the ACI 318-14 are provided throughout the book to facilitate its use by students and professionals. Aimed at architecture, building construction, and undergraduate engineering students, the scope of concepts in this volume

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emphasize simplified and practical methods in the analysis and design of reinforced concrete. This is distinct from advanced, graduate engineering texts, where treatment of the subject centers around the theoretical and mathematical aspects of design. As in

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the first edition, this book adopts a step-by-step approach to solving analysis and design problems in reinforced concrete. Using a highly graphical and interactive approach in its use of detailed images and self-experimentation exercises, **Concrete**

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Structures, Second Edition, is tailored to the most practical questions and fundamental concepts of design of structures in reinforced concrete. The text stands as an ideal learning resource for civil engineering, building construction, and architecture students

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as well as a valuable reference for concrete structural design professionals in practice.

Corrosion-resistant, electromagnetic transparent and lightweight fiber-reinforced polymers (FRPs) are accepted as valid alternatives to steel in

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concrete reinforcement. Reinforced Concrete with FRP Bars: Mechanics and Design, a technical guide based on the authors' more than 30 years of collective experience, provides principles, algorithms, and practical examples. Well-illustrated with case

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studies on flexural and column-type members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement applications. The text

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discusses FRP materials properties, and addresses testing and quality control, durability, and serviceability. It provides a historical overview, and emphasizes the ACI technical literature along with other research worldwide. Includes an explanation of the key

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physical mechanical properties of FRP bars and their production methods
Provides algorithms that govern design and detailing, including a new formulation for the use of FRP bars in columns Offers a justification for the development of strength reduction

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factors based on reliability
considerations Uses a two story
building solved in Mathcad® that can
become a template for real projects
This book is mainly intended for
practitioners and focuses on the
fundamentals of performance and

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design of concrete members with FRP reinforcement and reinforcement detailing. Graduate students and researchers can use it as a valuable resource. Antonio Nanni is a professor at the University of Miami and the University of Naples Federico II.

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Antonio De Luca and Hany Zadeh are
consultant design engineers.

Reinforced Concrete Deep Beams

A Fundamental Approach

Design of Prestressed Concrete

Concrete Structures

Advanced Concrete Technology

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This design code for concrete structures is the result of a complete revision to the former Model Code 1978, which was produced jointly by CEB and FIP. The 1978 Model Code has had a considerable impact on the national design codes in many countries. In particular, it has been

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used extensively for the harmonisation of national design codes and as basic reference for Eurocode 2. The 1990 Model Code provides comprehensive guidance to the scientific and technical developments that have occurred over the past decade in the safety, analysis and design of concrete structures. It

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has already influenced the codification work that is being carried out both nationally and internationally and will continue so to do.

Now reflecting the new 2008 ACI 318-08 Code and the new International Building Code (IBC-2006), this cutting-edge text has

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been extensively revised to present state-of-the-art developments in reinforced concrete. The text analyzes the design of reinforced concrete members through a unique and practical step-by-step trial and adjustment procedure. It is supplemented with flowcharts that

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guide readers logically through key features and underlying theory. Hundreds of photos of tests to failure of concrete elements help readers visualize this behavior. Ideal for practicing engineers who need to contend with the new revisions of the ACI, IBC, and AASHTO Codes.

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The sixth edition of this comprehensive textbook provides the same philosophical approach that has gained wide acceptance since the first edition was published in 1965. The strength and behavior of concrete elements are treated with the primary objective of explaining and justifying

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the rules and formulas of the ACI Building Code. The treatment is incorporated into the chapters in such a way that the reader may study the concepts in a logical sequence in detail or merely accept a qualitative explanation and proceed directly to the design process using the ACI Code.

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Mechanics and Design

A Publication of the Shock and
Vibration Information Center, Naval
Research Laboratory

Symposium on Reinforced Concrete
Columns

Select Proceedings of SEC 2016
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Over the past two decades concrete has enjoyed a renewed level of research and testing, resulting in the development of many new types of concrete.

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**Through the use of
various additives,
production techniques
and chemical processes,
there is now a great
degree of control over
the properties of specific**

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**concretes for a wide
range of applications.
New theories, models and
testing techniques have
also been developed to
push the envelope of
concrete as a building**

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material. There is no current textbook which brings all of these advancements together in a single volume. This book aims to bridge the gap between the

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traditional concrete technologies and the emerging state-of-the-art technologies which are gaining wider use. Although the use of composites has increased

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**in many industrial,
commercial, medical, and
defense applications,
there is a lack of
technical literature that
examines composites in
conjunction with concrete**

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**construction. Fulfilling
the need for a
comprehensive, explicit
guide, Reinforced
Concrete Design with FRP
Composites presents
specific informat**

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This text is intended primarily for third- or fourth-year Civil Engineering students at Canadian universities. It can also be used in graduate courses.

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this text provides
accurate, up-to-date, and
comprehensive coverage
of Canadian engineering
design and practice. The
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**Reinforced Concrete has
been adapted from the
U.S. third edition text to
reflect the Canadian
concrete design code:
A23.3-94 Design of
Concrete Structures**

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**issued by the Canadian
Standards Association.
With the exception of the
CPCA Concrete Design
Handbook, this is the first
Canadian textbook that is
compatible with the**

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**current Canadian design
code. (The CPCA
Handbook, while used in
many Canadian
engineering programs, is
not considered an
adequate learning tool**

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explained in a systematic
and clear fashion--with an
abundance of step-by-**

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concrete design. Lead author James MacGregor is a renowned authority on reinforced concrete design. He has been a distinguished teacher and a member of various code

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**committees in Canada.
The Publishers' Trade List
Annual
ACI 562-19 Code
Requirements for
Assessment, Repair, and
Rehabilitation of Existing**

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562-19) and Comment**

**Seismic Design of
Reinforced Concrete
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With this bestselling book, readers will quickly gain a better understanding of the fundamentals of reinforced concrete design. The author presents a thorough introduction to the field, covering such areas as theories, ACI Code requirements, and the design of reinforced concrete

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beams, slabs, columns, footings, retaining walls, bearing walls, prestressed concrete sections, and framework. Numerous examples are also integrated throughout the chapters to help reinforce the principles that are discussed.

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to build vertical structures as sound as they are eloquent. Dozens of cases studies of tall buildings throughout the world, many designed by Dr. Taranath, provide in-depth insight on why and how specific structural system choices are made. The book bridges the gap between two approaches: one based on intuitive skills

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and experience and the other based on computer skills and analytical techniques. Examining the results when experiential intuition marries unfathomable precision, this book discusses: The latest building codes, including ASCE/SEI 7-05, IBC-06/09, ACI 318-05/08, and ASCE/SEI 41-06 Recent developments in

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procedures Using realistic examples throughout, Dr. Taranath shows how to create sound, cost-efficient high rise structures. His lucid and thorough explanations provide the tools required to derive systems that gracefully resist the battering forces of nature while addressing the specific needs of building owners,

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developers, and architects. The book is packed with broad-ranging material from fundamental principles to the state-of-the-art technologies and includes techniques thoroughly developed to be highly adaptable. Offering complete guidance, instructive examples, and color illustrations, the author develops several

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approaches for designing tall buildings. He demonstrates the benefits of blending imaginative problem solving and rational analysis for creating better structural systems.

Publisher Description

The Shock and Vibration Digest

Mechanics and Design, Global Edition

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Officials (AASHTO) LRFD Bridge
Design Specifications, it is an
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both professionals and students.
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gaining a quick familiarity with the AASHTO LRFD specifications to seeking broader guidance on highway bridge design—Design of Highway Bridges is the one-stop, ready reference that puts information at your fingertips,

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while also serving as an excellent study guide and reference for the U.S. Professional Engineering Examination.

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updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive,

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easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely

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updated to reflect the latest ACI
318-11 code.

The quality and testing of
materials used in construction are
covered by reference to the
appropriate ASTM standard
specifications. Welding of

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reinforcement is covered by reference to the appropriate AWS standard. Uses of the Code include adoption by reference in general building codes, and earlier editions have been widely used in this manner. The Code is

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written in a format that allows such reference without change to its language. Therefore, background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included. The

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Commentary is provided for this purpose. Some of the considerations of the committee in developing the Code portion are discussed within the Commentary, with emphasis given to the explanation of new or

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revised provisions. Much of the research data referenced in preparing the Code is cited for the user desiring to study individual questions in greater detail. Other documents that provide suggestions for carrying out the

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requirements of the Code are also cited.

Design of Reinforced Concrete
Reinforced Concrete Design with
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and Commentary (ACI 318R-05)
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Design

Design of Concrete Beams for
Torsion

Reinforced Concrete Mechanics and
Design Upper Saddle River, N.J. :

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Prentice Hall

The contents of this book have been chosen with the following main aims: to review the present coverage of the major design codes and the CIRIA guide, and to explain the fundamental behaviour of deep

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beams; to provide information on design topics which are inadequately covered by the current codes and design manuals; and to give authoritative review

Design of Reinforced Concrete,
10th Edition by Jack McCormac

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and Russell Brown, introduces the fundamentals of reinforced concrete design in a clear and comprehensive manner and grounded in the basic principles of mechanics of solids. Students build on their understanding of basic

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mechanics to learn new concepts such as compressive stress and strain in concrete, while applying current ACI Code.

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engineering concepts. The
Seventh Edition is up-to-
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information that can be applied outside of the classroom. Students are able to apply complicated engineering concepts to real world scenarios with in-text examples and practice problems in each chapter.

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