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Reinforced
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Manual Sp 17

***Reinforced
Concrete
Design
Manual Sp
17***

*A PRACTICAL
GUIDE TO
REINFORCED
CONCRETE*

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STRUCTURE
ANALYSIS AND
DESIGN

*Reinforced
Concrete
Structures
explains the
underlying
principles of
reinforced
concrete design
and covers the
analysis,*

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*design, and
detailing*

*requirements in
the 2008
American
Concrete
Institute (ACI)
Building Code
Requirements
for Structural
Concrete and
Commentary and
the 2009*

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*International
Code Council
(ICC)*

*International
Building Code
(IBC). This
authoritative
resource
discusses
reinforced
concrete
members and
provides*

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*techniques for
sizing the
cross section,
calculating the
required amount
of
reinforcement,
and detailing
the
reinforcement.*

*Design
procedures and
flowcharts*

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*guide you
through code
requirements,
and worked-out
examples
demonstrate the
proper
application of
the design
provisions.*

COVERAGE

INCLUDES:

Mechanics of

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*reinforced
concrete*

Material

*properties of
concrete and
reinforcing
steel*

*Considerations
for analysis
and design of
reinforced
concrete
structures*

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*Requirements
for strength
and
serviceability
Principles of
the strength
design method
Design and
detailing
requirements
for beams, one-
way slabs, two-
way slabs,*

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columns, walls,
and foundations
This revised,
fully updated
second edition
covers the
analysis,
design, and
construction of
reinforced
concrete
structures from
a real-world

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perspective. It examines different reinforced concrete elements such as slabs, beams, columns, foundations, basement and retaining walls and pre-stressed

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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

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*chapter on
metric system
in 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*

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*construction
engineering
programs along
with practicing
engineers and
architects.*

*This second
edition also
includes a new
appendix with
color images
illustrating
various*

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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

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the various sections of the ACI 318-14 are provided throughout the book to facilitate its use by students and professionals. Aimed at architecture, building

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construction,
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and

*undergraduate
engineering
students, the
scope of
concepts in
this volume
emphasize
simplified and
practical
methods in the
analysis and*

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Concrete Design
design of
Manual Sp 17
reinforced

*concrete. This
is distinct
from advanced,
graduate
engineering
texts, where
treatment of
the subject
centers around
the theoretical
and*

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mathematical aspects of design. As in the first edition, this book adopts a step-by-step approach to solving analysis and design problems in reinforced concrete. Using

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a highly graphical and interactive approach in its use of detailed images and self-experimentation exercises,

“Concrete Structures, Second Edition,” is tailored to the

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*most practical
questions and
fundamental
concepts of
design of
structures in
reinforced
concrete. The
text stands as
an ideal
learning
resource for
civil*

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*engineering,
building
construction,
and
architecture
students as
well as a
valuable
reference for
concrete
structural
design
professionals*

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in practice.
Manual Sp.17

*Design of slabs-
on-ground
Structures to
Resist the
Effects of
Accidental
Explosions
Design of
Reinforced
Concrete
ACI Manual of
Concrete*

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*Practice
Theory and
Design*

*ACI Manual of
Concrete
Practice:
Structural
design.*

*Structural
specifications.
Structural
analysis. (Rev.
print., 1970)*

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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 beams; to provide information on design topics which are

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inadequately covered
by the current codes
and design manuals;
and to give
authoritative review

This new edition of a
highly practical text
gives a detailed
presentation of the
design of common
reinforced concrete
structures to limit
state theory in
accordance with BS

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8110.

Manual Sp. 17
Multiprotection

Design

Structural Engineer's

Pocket Book

Concrete Structures,

Part-I

The Reinforced

Concrete Design

Manual: Anchoring to

concrete

(ACI 318-02) and

Commentary (ACI

318R-02)

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Reinforced Concrete
Structures: Analysis
and Design

*The leading
structural concrete
design reference for
over two
decades—updated to
reflect the latest
ACI 318-19 code A
go-to resource for
structural*

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*engineering students
Manual Sp.17
and professionals
for over twenty
years, this newly
updated text on
concrete structural
design and analysis
reflects the most
recent ACI 318-19
code. It emphasizes
student
comprehension by*

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*presenting design
Manual Sp 17
methods alongside
relevant codes and
standards. It also
offers numerous
examples (presented
using SI units and
US-SI conversion
factors) and
practice problems to
guide students
through the analysis*

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and design of each

type of structural

member. New to

Structural Concrete:

Theory and Design,

Seventh Edition are

code provisions for

transverse

reinforcement and

shear in wide beams,

hanger

reinforcement, and

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bi-directional interaction of one-way shear. This edition also includes the latest information on two-way shear strength, ordinary walls, seismic loads, reinforcement detailing and analysis, and

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materials
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requirements. This book covers the historical background of structural concrete; advantages and disadvantages; codes and practice; and design philosophy and concepts. It then launches into a

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*discussion of the
properties of
reinforced concrete,
and continues with
chapters on flexural
analysis and design;
deflection and
control of cracking;
development length
of reinforcing bars;
designing with the
strut-and-tie*

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Concrete Design
*method; one-way
slabs; axially loaded
columns; and more.
Updated to align
with the new ACI
318-19 code with
new code provisions
to include:
transverse
reinforcement and
shear in wide beams,
hanger*

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Reinforced
Concrete Design
*reinforcement, bi-
directional*

*interaction of one-
way shear, and
reference to ACI
certifications*

*Includes dozens of
worked examples
that explain the
analysis and design
of structural
members Offers*

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*updated
information on two-
way shear strength,
seismic loads,
materials
requirements, and
more Improves the
design ability of
students by
explaining code
requirements and
restrictions Provides*

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*examples in SI units
in every chapter as
well as conversion
factors from
customary units to
SI Offers
instructors access to
a solutions manual
via the book's
companion website*

***Structural Concrete:
Theory and Design,***

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Seventh Edition is an excellent text for undergraduate and graduate students in civil and structural engineering programs. It will also benefit concrete designers, structural engineers, and civil engineers focused on structures.

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This book is prepared according to the ACI Code 2019 for buildings and AASHTO LRFD Specifications for Bridges 2007. The units used throughout the presentation are the SI units, however,

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*the expressions and
examples are also
given in US*

*Customary units in
the starting chapters
to keep continuity
with the traditional
system of units. It is
tried that the three
main phases of
structural design,
namely load*

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*determination,
design calculations
and detailing are
introduced to the
beginner. This book
is useful with the
2nd part of the same
book. The comments
on the previous
editions of the book
sent by colleagues,
fellow engineers and*

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*students are
incorporated in this
edition. All persons
who contributed in
this regard are
greatly
acknowledged.
Suggestions for
further
improvement of the
presentation will be
appreciated and will*

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*be incorporated in
the future editions.*

*Reinforced Concrete
Design with FRP
Composites*

*10th International
Conference on FRP
Composites in Civil
Engineering*

*Proceedings of
CICE 2020/2021*

MNL-17(21), the

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***ACI Reinforced
Concrete Design***

Handbook-A

***Companion to ACI
318-19, Volumes 1
& 2 Combined***

Precast and

Prestressed Concrete

ACI Design

Handbook (Metric)

This book

discusses design

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aspects of steel
fiber-reinforced
concrete (SFRC)
members,
including the
behavior of the
SFRC and its
modeling. It also
examines the
effect of various
parameters
governing the

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response of SFRC
members in detail.
Unlike other
publications
available in the
form of guidelines,
which mainly
describe design
methods based on
experimental
results, it
describes the

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basic concepts
and principles of
designing
structural
members using
SFRC as a
structural material,
predominantly
subjected to
flexure and shear.
Although
applications to

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special structures,
such as bridges,
retaining walls,
tanks and silos are
not specifically
covered, the
fundamental
design concepts
remain the same
and can easily be
extended to these
elements. It

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introduces the principles and related theories for predicting the role of steel fibers in reinforcing concrete members concisely and logically, and presents various material models to predict the

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response of SFRC
members in detail.

These are then
gradually extended
to develop an
analytical flexural
model for the
analysis and
design of SFRC
members. The lack
of such a
discussion is a

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major hindrance to the adoption of SFRC as a structural material in routine design practice. This book helps users appraise the role of fiber as reinforcement in concrete members used alone and/or

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along with
conventional
rebars.

Applications to
singly and doubly
reinforced beams
and slabs are
illustrated with
examples, using
both SFRC and
conventional
reinforced

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concrete as a
structural material.

The influence of
the addition of
steel fibers on
various
mechanical
properties of the
SFRC members is
discussed in detail,
which is invaluable
in helping

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designers and engineers create optimum designs. Lastly, it describes the generally accepted methods for specifying the steel fibers at the site along with the SFRC mixing methods, storage and transport and

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explains in detail
methods to

validate the
adopted design.

This book is useful
to practicing
engineers,
researchers, and
students.

Detailing is an
essential part of
the design

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process. This thorough reference guide for the design of reinforced concrete structures is largely based on Eurocode 2 (EC2), plus other European design standards such as Eurocode 8 (EC8),

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where
appropriate. With
its large format,
double-page
spread layout, this
book
systematically
details 213
structural
Occupational
Outlook Handbook
Manual for

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Detailing
Manual Sp 17
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Concrete
Structures to EC2
Facilities
Engineering
Handbook
SP-17M(14), the
Reinforced
Concrete Design
Handbook
SP-66(04): ACI

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Detailing
Manual Sp.17
Manual-2004

Design of
Reinforced
Concrete
Structures

This book is prepared according to the 2014 ACI Code for buildings and

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AASHTO LRFD
Specifications
for bridges.

The units used
throughout the
presentation
are the SI
units, however,
the expressions
and examples
are also given
in US Customary
units in the

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starting chapters to keep continuity with the traditional system of units. It is tried that the three main phases of structural design, namely load

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determination,
design
calculations
and detailing
are introduced
to the
beginner. This
book is useful
with the 2nd
part of the
same book.
After the
printing of the

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first and
second

editions, the
comments send
by colleagues,
fellow
engineers and
students are
acknowledged
with thanks.

Suggestions for
further
improvement of

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the presentation will be highly appreciated and will be incorporated in the future editions.

This volume highlights the latest advances, innovations,

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and
Manual Sp 17

applications in
the field of
FRP composites
and structures,
as presented by
leading
international
researchers and
engineers at
the 10th
International
Conference on F

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Fibre-Reinforced
Polymer (FRP)
Composites in
Civil
Engineering
(CICE), held in
Istanbul,
Turkey on
December 8-10,
2021. It covers
a diverse range
of topics such
as All FRP

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structures;
Bond and
interfacial
stresses;
Concrete-filled
FRP tubular
members;
Concrete
structures
reinforced or
pre-stressed
with FRP;
Confinement;

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Design issues/g
Manual Sp 17
uidelines;
Durability and
long-term
performance;
Fire, impact
and blast
loading; FRP as
internal
reinforcement;
Hybrid
structures of
FRP and other

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materials;
Materials and
products;
Seismic
retrofit of
structures;
Strengthening
of concrete,
steel, masonry
and timber
structures; and
Testing. The
contributions,

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which were
selected by
means of a
rigorous
international
peer-review
process,
present a
wealth of
exciting ideas
that will open
novel research
directions and

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foster multidisciplinary

collaboration among different specialists.

International Scientific

Siberian

Transport Forum

TransSiberia -

2021

Nationally

Coordinated

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Program of
Manual Sp 17
Highway
Research,
Development,
and Technology.
Annual Progress
Report. Fiscal
Year 1994
Safety design
standards
Building Code
Requirements
for Reinforced

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Concrete Design
Concrete (ACI
Manual Sp 17
318-63)

Reinforced
Concrete Deep
Beams

Principles of
Structural
Design

The quality and
testing of
materials used in
construction are
covered by

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reference to the
appropriate

ASTM standard
specifications.

Welding of
reinforcement is
covered by
reference to the
appropriate AWS
standard. Uses of
the Code include
adoption by
reference in

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general building codes, and earlier editions have been widely used in this manner.

The Code is written in a format that allows such reference without change to its language.

Therefore,

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background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included. The Commentary is provided for this purpose. Some of the

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considerations of the committee in developing the Code portion are discussed within the Commentary, with emphasis given to the explanation of new or revised provisions. Much of the research data referenced

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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 requirements of the Code are also

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cited.

Here is a comprehensive guide and reference to assist civil engineers preparing for the Structural Engineer Examination. It offers 350 pages of text and 70

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design problems
with complete
step-by-step
solutions. Topics
covered:

Materials for
Reinforced
Concrete; Limit
State Principles;
Flexure of
Reinforced
Concrete Beams;
Shear and

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Torsion of
Concrete Beams;
Bond and
Anchorage;
Design of
Reinforced
Concrete
Columns; Design
of Reinforced
Concrete Slabs
and Footings;
Retaining Walls;
and Piled

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Foundations. An
index is provided.
General Design
Standards
Wood, Steel, and
Concrete, Second
Edition
Seismic Design
for Buildings
Is Sp 34 :
Handbook On
Concrete
Reinforcement

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And Detailing
Building Code
Requirements for
Structural
Concrete
4th Edition

Publisher

Description

**A structural design
book with a code-
connected focus,
Principles of
Structural Design:**

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Wood, Steel, and Concrete, Second Edition introduces the principles and practices of structural design. This book covers the section properties, design values, reference tables, and other design aids required to accomplish complete structural

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**designs in
accordance with the
codes. What's New
in This Edition:
Reflects all the
latest revised codes
and standards The
text material has
been thoroughly
reviewed and
expanded, including
a new chapter on
concrete design
Suitable for**

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**combined design
coursework in
wood, steel, and
concrete Includes all
essential
material—the section
properties, design
values, reference
tables, and other
design aids required
to accomplish
complete structural
designs according
to the codes This**

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book uses the LRFD basis of design for all structures This updated edition has been expanded into 17 chapters and is divided into four parts. The first section of the book explains load and resistance factor design, and explores a unified approach to design.

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The second section covers wood design and specifically examines wood structures. It highlights sawn lumber, glued laminated timber, and structural composite/veneer lumber. The third section examines steel structures. It addresses the AISC

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2010 revisions to the sectional properties of certain structural elements, as well as changes in the procedure to design the slip-critical connection. The final section includes a chapter on T beams and introduces doubly reinforced beams. Principles of

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**Structural Design:
Wood, Steel, and
Concrete, Second
Edition was**

**designed to be used
for joint coursework
in wood, steel, and
concrete design.**

**Technical Manual
Concrete Structures,
3rd Edition
PCI Design
Handbook
Behavior, Modelling**

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Concrete Design
and Design
Manual Sp 17
Volume 2

NHB.

*Until now there
has been no
comprehensive
pocket
reference guide
for
professional
and student
structural
engineers. The*

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Concrete Design
**Structural
Engineers**

***Pocket Book is
a unique
compilation of
all table,
data, facts,
formulae and
rules of thumb
needed for
scheme design
by structural
engineers in***

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*the office, in
transit or on
site. By
bringing
together data
from many
sources, this
pocket book is
a compact
source of job-
simplifying
information at
an affordable*

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price. It is a first point of reference as well as saving valuable time spent trying to track down information that is needed on a daily basis. This may be a small book in terms of its

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physical dimensions, but it contains a wealth of useful engineering knowledge. Concise and precise, the book is split into 13 sections, with quick and clear

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**access to
subject areas
including:
timber,
masonry,
concrete,
aluminium and
glass. British
Standards are
used and
referenced
throughout.
*the only book**

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***of its kind for
structural
engineers.
*brings
together
information
from many
different
sources for the
first time.
*comprehensive,
yet concise and
affordable.***

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Although the use of composites has increased in many industrial, commercial, medical, and defense applications, there is a lack of technical literature that

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***examines
composites in
conjunction
with concrete
construction.
Fulfilling the
need for a
comprehensive,
explicit guide,
Reinforced
Concrete Design
with FRP
Composites***

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presents
specific
informat
Bridge
Inspector's
Training Manual
Concrete
Structures
Structural
Concrete
Building Code
Requirements
for Structural

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**Concrete (ACI
318-08) and
Commentary
Part-I
Building Code
Requirements
for Structural
Concrete (ACI
318-05) and
Commentary (ACI
318R-05)**