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Solution  
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**Design of Concrete Structures**  
**McGraw-Hill**  
**College**

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Since 1984 the EURO-C conference series (Split 1984, Zell am See 1990, Innsbruck 1994, Badgastein 1998, St Johann im Pongau 2003, Mayrhofen 2006, Schladming 2010) has provided a forum for academic discussion of the latest theoretical, algorithmic and modelling developments

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**associated with  
computational  
simulations of  
concrete and concrete  
structure**

**This volume provides a  
selected overview of  
approaches, methods,  
techniques, tools,  
systems and  
technology used to  
develop knowledge of  
the service life  
durability of**

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**construction and  
building materials.**

**Marine Design XIII**

**collects the**

**contributions to the**

**13th International**

**Marine Design**

**Conference (IMDC**

**2018, Espoo, Finland,**

**10-14 June 2018). The**

**aim of this IMDC**

**series of conferences is**

**to promote all aspects**

**of marine design as an**

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engineering discipline.

The focus is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on: ● Challenges in merging ship design and marine applications of experience-based industrial design ● Digitalisation as

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**technological enabler  
for stronger link**

**between efficient**

**design, operations and  
maintenance in future**

- **Emerging technologies and their impact on future designs**
- **Cruise ship and icebreaker designs including fleet compositions to meet new market demands**

**To reflect on the**

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conference focus,  
**Marine Design XIII**  
covers the following  
research topic series:

- **State of art ship design principles - education, design methodology, structural design, hydrodynamic design;**
- **Cutting edge ship designs and operations - ship concept design, risk and safety, arctic**

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**design, autonomous ships; •Energy efficiency and propulsions - energy efficiency, hull form design, propulsion equipment design; •Wider marine designs and practices - navy ships, offshore and wind farms and production. Marine Design XIII contains 2 state-of-the-art reports**



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on design

methodologies and  
cruise ships design,  
and 4 keynote papers  
on new directions for  
vessel design practices  
and tools, digital  
maritime traffic, naval  
ship designs, and new  
tanker design for  
arctic. Marine Design  
XIII will be of interest  
to academics and  
professionals in

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maritime technologies  
and marine design.

Fundamentals of

Engineering

Theory and Design

Proceedings of the

Sixth International

Symposium on Life-

Cycle Civil

Engineering (IALCCE

2018), 28-31 October

2018, Ghent, Belgium

Tubular Structures

XIII

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**International  
Conference on  
Emerging Trends in  
Engineering (ICETE)  
Concrete Structures,  
3rd Edition**

In most parts of the developed world, the building stock and the civil infrastructure are ageing and in constant need

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of maintenance,  
repair and  
upgrading.

Moreover, in the  
light of our  
current  
knowledge and of  
modern codes,  
the majority of  
buildings stock  
and other types  
of structures in  
many parts of  
the world are

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substandard and deficient. This is especially so in earthquake-prone regions, as, even there, seismic design of structures is relatively recent. In those regions the major part of the seismic threat to human

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life and  
property comes  
from old  
buildings. Due

to the  
infrastructure's  
increasing  
decay,  
frequently  
combined with  
the need for  
structural  
upgrading to  
meet more

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stringent design  
requirements

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(especially  
against seismic  
loads),

structural  
retrofitting is  
becoming more  
and more

important and  
receives today  
considerable  
emphasis

throughout the

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world. In response to this need, a major part of the fib Model Code 2005, currently under development, is being devoted to structural conservation and maintenance.

More importantly, in recognition of



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the importance  
of the seismic  
threat arising  
from existing  
substandard  
buildings, the  
first standards  
for structural  
upgrading to be  
promoted by the  
international  
engineering  
community and by  
regulatory

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authorities  
alike are for  
seismic  
rehabilitation  
of buildings.  
This is the  
case, for  
example, of Part  
3: Strengthening  
and Repair of  
Buildings of  
Eurocode 8 (i.  
e. of the draft  
European

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Standard for ear  
thquake-  
resistant

Solution  
Manual), and  
which is the  
only one among  
the current  
(2003) set of 58  
Eurocodes  
attempting to  
address the  
problem of  
structural  
upgrading. It is

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also the case of  
the recent

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draft standard  
on Seismic  
evaluation of  
existing  
buildings and of  
the 1996 Law for  
promotion of  
seismic  
strengthening of  
existing  
reinforced

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structures in  
Japan. As noted  
in Chapter 1 of  
this Bulletin,  
fib - as CEB and  
FIP did before -  
has placed  
considerable  
emphasis on  
assessment and  
rehabilitation  
of existing  
structures. The

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present Bulletin  
is a culmination  
of this effort  
in the special  
but very  
important field  
of seismic  
assessment and  
rehabilitation.  
It has been  
elaborated over  
a period of 4  
years by Task  
Group 7.1

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Assessment and retrofit of existing structures of fib Commission 7 Seismic design, a truly international team of experts, representing the expertise and experience of all the important

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seismic regions  
Structures 13th  
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of the world. In  
the course of

its work the  
team had six  
plenary two-day  
meetings: in  
January 1999 in  
Pavia, Italy; in  
August 1999 in  
Raleigh, North  
Carolina; in  
February 2000 in  
Queenstown, New



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Zealand; in July  
2000 in Patras,  
Greece; in March  
2001 in  
Lausanne,  
Switzerland; and  
in August 2001  
in Seattle,  
Washington. In  
October 2002 the  
final draft of  
the Bulletin was  
presented to  
public during

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the 1st fib  
Congress in  
Osaka. It was  
also there that  
it was approved  
by fib  
Commission 7  
Seismic Design.  
The contents is  
structured into  
main chapters as  
follows: 1  
Introduction - 2  
Performance

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objectives and  
system  
considerations -  
3 Review of  
seismic  
assessment  
procedures - 4  
Strength and  
deformation  
capacity of non-  
seismically  
detailed  
components - 5  
Seismic

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retrofitting  
Structures 13th  
techniques - 6  
Edition Solution  
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Probabilistic  
concepts and

methods - 7 Case  
studies

The 13th edition  
of the classic  
text, " Design of  
Concrete  
Structures," is  
completely  
revised using  
the newly

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released 2002  
ACI Code. The  
text covers the  
behavior and  
design aspects  
of concrete and  
provides  
thoroughly  
updated examples  
and homework  
problems  
throughout.. The  
13th edition  
features a new

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chapter, Chapter  
Structures 13th  
Edition Solution  
Manual, although  
10, covering  
strut-and-tie  
models, although  
the two-pronged  
objectives of  
(1) establishing  
a firm  
understanding of  
the behavior of  
reinforced  
concrete, and  
(2) developing  
proficiency in

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the methods used  
in current  
design practice  
are retained..

The text  
presents the  
basic mechanics  
of structural  
concrete and  
methods for the  
design of  
individual  
members for  
bending, shear,

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torsion, and  
axial force, and  
also provides

detail in the  
various types of  
structural  
systems

applications..

Structural  
concrete members  
often show great  
deviation in  
structural  
performance from



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that predicted  
by the current  
code of  
practice. In

certain cases  
the predications  
considerably  
underestimate  
the capabilities  
of a structure  
or member, while  
in others the  
predictions are  
unsafe as they

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overestimate the member's ability to perform in a prescribed manner. Clearly,

a rational and unified design methodology is still lacking for structural concrete. This book presents a simplified methodology

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based on  
calculations  
which are quick,  
easily

programmable and  
no more complex  
than those  
required by the  
current codes.

It involves  
identifying the  
regions of a  
structural  
member or

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structure  
Structures 13th  
through which  
Edition Solution  
the external  
Manual  
load is

transmitted from  
its point of  
application to  
the supports and  
then  
strengthening  
these regions as  
required. As  
most of these  
regions enclose

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the trajectories  
of internal  
compression  
actions the  
technique has  
been called the  
'compressive  
force path'  
method. Ultimate  
limit-state  
design for  
concrete  
structures will  
provide

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designers with a practical and easily applied method for the design of a concrete structure, which is fully compatible with the behaviour of concrete (as described by valid experimental

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evidence) at  
both the  
material and  
structural  
level.

A Practical  
Course in  
Advanced  
Structural  
Design is  
written from the  
perspective of a  
practicing  
engineer, one

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with over 35  
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years of  
experience, now  
working in the  
academic world,  
who wishes to  
pass on lessons  
learned over the  
course of a  
structural  
engineering  
career. The book  
covers essential  
topics that will



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enable beginning structural engineers to gain an advanced understanding prior to entering the workforce, as well as topics which may receive little or no attention in a typical undergraduate

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curriculum. For example, many new structural engineers are faced with issues regarding estimating collapse loadings during earthquakes and establishing fatigue requirements for cyclic loading -

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but are typically not taught the underlying methodologies for a full understanding.

Features:

Advanced practice  
e-oriented  
guidance on  
structural  
building and  
bridge design in

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a single volume.

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Detailed treatment of earthquake ground motion from multiple specifications (ASCE 7-16, ASCE 4-16, ASCE 43-05, AASHTO).

Details of calculations for the advanced student as well

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as the  
practicing  
structural  
engineer.  
Practical  
example problems  
and numerous  
photographs from  
the author's  
projects  
throughout. A  
Practical Course  
in Advanced  
Structural

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Design will  
serve as a  
useful text for  
graduate and  
upper-level  
undergraduate  
civil  
engineering  
students as well  
as practicing  
structural  
engineers.

Life-Cycle Cost  
and Performance

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of Civil  
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Infrastructure  
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Systems  
Manual  
Case Studies in  
Reinforced and  
Prestressed  
Concrete  
Proceedings of  
the 13th  
International  
Marine Design  
Conference (IMDC  
2018), June  
10-14, 2018,  
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Finland  
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Edition Solution  
Manual Ultimate Limit-  
state Design of  
Concrete  
Structures  
Proceedings of  
the Third  
International  
Conference on  
Bridge  
Maintenance,  
Safety and  
Management,  
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16-19 July 2006,  
Structures 13th  
Porto, Portugal

— IABMAS '06

Composites for  
Manual Construction

This study examines  
two highway bridges  
constructed using novel  
fiber-reinforced polymer  
(FRP) composite stay-in-  
place formwork and an  
FRP grillage  
reinforcement system.

Both bridge

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superstructures rely on the FRP components as bridge deck reinforcement. These bridges were monitored in-situ for a period of five years. The monitoring included a series of in-situ load test as well as non-destructive evaluation (NDE). Laboratory investigations accompanied and

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guided the load testing  
and NDE implemented.

Finite element  
simulations were  
employed to evaluate  
the likely causes of  
premature deck cracking  
seen in the traditionally-  
constructed bridge and  
the FRP-component  
superstructures. The  
study identifies sources  
of potential  
deterioration, identifies

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aspects of the bridge superstructures likely to enhance durability, and quantifies the effectiveness and potential for deterioration of the load transfer mechanisms present in the FRP-component superstructures.

By designing in corrosion prevention and through preventive

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maintenance, the overall service cost of a concrete structure can be substantially reduced.

This book takes a probabilistic approach to the engineering design issues for controlling durability and service life of concrete structures in severe environments.

Many durability problems are caused by

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poor quality control as well as special problems during concrete construction. The issue of construction quality and variability need to be grasped before durability can be successfully controlled. This book helps by giving: reviews of field performance, deteriorating processes and current codes and

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practice methods for  
calculation of corrosion  
probability;

performance-based  
concrete quality control;  
corrosion prevention  
and preventive  
maintenance calculation  
of life cycle costs and  
life cycle assessment  
recommended job  
specifications.

Internationally relevant  
with a practical focus,

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this is the essential  
guide for consulting and  
construction engineers  
involved in the design  
and execution of new  
concrete structures.

This volume contains  
the papers presented at  
IALCCE2018, the Sixth  
International  
Symposium on Life-  
Cycle Civil Engineering  
(IALCCE2018), held in  
Ghent, Belgium,



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October 28-31, 2018. It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R. Khan lecture, 8 keynote lectures, and 390 technical papers from all over the world. Contributions relate to design, inspection, assessment, maintenance or optimization in the

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framework of life-cycle analysis of civil engineering structures and infrastructure systems. Life-cycle aspects that are developed and discussed range from structural safety and durability to sustainability, serviceability, robustness and resilience. Applications relate to buildings,

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bridges and viaducts,  
highways and runways,  
tunnels and

underground structures,  
off-shore and marine  
structures, dams and  
hydraulic structures,  
prefabricated design,  
infrastructure systems,  
etc. During the

IALCCE2018

conference a particular  
focus is put on the cross-  
fertilization between

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different sub-areas of expertise and the development of an overall vision for life-cycle analysis in civil engineering. The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life-cycle analysis and assessment in civil engineering, including researchers, practising

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engineers, consultants,  
contractors, decision  
makers and

representatives from  
local authorities.

Advances in bridge  
maintenance, safety,  
management and life-  
cycle performance

contains the papers  
presented at

IABMAS'06, the Third  
International

Conference of the

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International  
Association for Bridge  
Maintenance and Safety  
(IABMAS), held in  
Porto, Portugal from 16  
to 19 July, 2006. All  
major aspects of bridge  
maintenance,  
management, safety,  
and co

A Practical Guide for  
Architects  
Earthquake Resistant  
Engineering Structures

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X

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STRUCTURES

Limit Analysis and  
Concrete Plasticity

**Based on the  
proceedings of  
the Seventh  
International  
Conference on**

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**Earthquake  
Resistant  
Engineering  
Structures**

**(ERES), this book  
presents basic  
and applied  
research in the  
main fields of  
engineering  
relevant to  
earthquake  
resistant  
analysis and**



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**Tubular  
Structures XIII  
contains the  
latest scientific  
and engineering  
developments in  
the field of  
tubular steel  
structures, as  
presented at the  
13th**

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**International  
Symposium on**

**Tubular Solution**

**Structures**

**(ISTS13), Hong**

**Kong, 15 - 17**

**December 2010.**

**The International**

**Symposium on**

**Tubular**

**Structures (ISTS)**

**has a**

**longstanding**

**reputation for**

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**being the  
principal  
showcase for  
manufactured  
tubing and the  
prime  
international  
forum for  
discussion of  
research,  
developments  
and applications  
in this field. The  
Symposium**

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**presentations  
herein include  
one invited ISTS  
Kurobane  
Lecture together  
with all the  
technical papers.  
Various key and  
emerging  
subjects in the  
field of hollow  
structural  
sections are  
covered, such as:**

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**special applications and**

**case studies,**

**static and**

**fatigue**

**behaviour of con**

**nections/joints,**

**concrete-fi lled**

**and composite**

**tubular members**

**and offshore**

**structures,**

**stainless steel**

**and aluminium**

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**structures,  
earthquake and**

**dynamic**

**resistance,**

**specifi cation**

**and standard**

**developments,**

**material**

**properties and**

**structural**

**reliability,**

**impact**

**resistance and**

**brittle fracture,**

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**fi re resistance,  
casting and  
fabrication  
innovations.**

**Research and  
development  
issues presented  
in this book are  
applicable to  
buildings,  
bridges, offshore  
structures,  
entertainment  
rides, cranes,**

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Tubular  
Structures XIII is  
thus a pertinent  
reference source  
for architects,  
civil and  
mechanical  
engineers,  
designers, steel



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**fabricators and  
contractors,  
manufacturers of  
hollow sections  
or related  
construction  
products, trade  
associations  
involved with  
tubing, owners  
or developers of  
tubular  
structures, steel  
specification**

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**committees,  
academics and  
research  
students all  
around the  
world.**

**A comprehensive  
reference of  
materials for  
interior  
designers and  
architects  
Choosing the  
right material for**

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**the right purpose  
is a critical—and  
often overlooked  
—aspect in the  
larger context of  
designing  
buildings and  
interior spaces.  
When specified  
and executed  
properly,  
materials  
support and  
enhance a**

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**project's overall  
theme, and**

**infuse interior  
space with a**

**solid foundation  
that balances**

**visual poetry and  
functionality.**

**Materiality and  
Interior**

**Construction**

**imparts essential  
knowledge on**

**how materials**

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**contribute to the  
construction and  
fabrication of  
floors, partitions,  
ceilings, and  
millwork, with  
thorough  
coverage of the  
important  
characteristics  
and properties of  
building  
materials and  
finishes.**

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**Individual coverage of the key characteristics of each material explores the advantages and disadvantages of using specific materials and construction assemblies, while helping readers discover**

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**how to make  
every building  
element count.**

**In addition,  
Materiality and  
Interior  
Construction: Is  
highly illustrated  
throughout to  
show material  
properties and  
building  
assemblies  
Supplies**

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**rankings and  
information on  
the "green"  
attributes of  
each material so  
that designers  
can make  
informed  
decisions for  
specifications Is  
organized by  
application for  
easy and quick  
access to**



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Manual,  
**information  
Includes a  
companion  
website,**

**featuring an  
extensive online  
image bank of  
materials and  
assemblies**

**Rather than a  
typical catalog of  
materials,  
Materiality and  
Interior**

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**Construction is efficiently organized so that the reader is guided directly to the options for the location or assembly they are considering. Reliable and easy to use, Materiality and Interior Construction is a**

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**one-stop,  
comprehensive  
reference for  
hundreds of  
commonly used  
materials and  
their integration  
as building  
components—and  
an invaluable  
resource that  
every interior  
designer or  
architect should**

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Structures 13th

**add to their set  
of tools.**

**Pack: Book and C**

**DInternationally,**

**full-scale**

**accelerated**

**pavement**

**testing, either on**

**test roads or**

**linear/circular**

**test tracks, has**

**proven to be a**

**valuable tool**

**that fills the gap**

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**between models  
and laboratory  
tests and long-  
term**

**experiments on  
in-service  
pavements.**

**Accelerated  
pavement  
testing is used to  
improve  
understanding of  
pavement  
behavior,**

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**Examples of the**

**Design of**

**Reinforced**

**Concrete**

**Buildings to**

**BS8110**

**Structural**

**Concrete**

**Solutions Manual**

**Earthquake**

**Resistant**

**Engineering**

**Structures VII**

**Building**

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**Construction**

**Illustrated**

**Structural Design**

**with FRP**

**Materials**

Relevant

advances have

been

accomplished by

the scientific

community and

engineering

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profession in  
the design,  
assessment,  
monitoring,  
maintenance,  
and  
management of  
sustainable and  
resilient bridge  
structures and  
infrastructures.  
These advances



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have been  
presented and  
discussed at The  
Sixth

International  
Conference on  
Bridge  
Maintenance,  
Safety And  
Management  
(IABMAS 2012),  
held in Stresa,

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Italy, from 8 to  
11 July 2012 (<http://www.iabmas2012.org>).

IABMAS 2012  
has been  
organised on  
behalf of the  
International  
Association for  
Bridge  
Maintenance

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And Safety  
(IABMAS) under  
the auspices of  
Politecnico di  
Milano. This  
book collects  
the extended  
versions of  
selected papers  
presented at  
IABMAS 2012  
and invited

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papers  
originally  
published in a  
Special Issue of  
Structure and  
Infrastructure  
Engineering.  
These papers  
provide  
significant  
contributions to  
the process of

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making more  
rational  
decisions in  
bridge design,  
assessment,  
monitoring and  
maintenance.

The editors  
would like to  
thank the  
authors for their  
contributions

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and hope that  
this collection of  
papers will  
represent a  
valuable  
reference for  
scientific  
research and  
engineering  
applications in  
the fields of  
design,

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assessment,  
monitoring, and  
maintenance of  
bridges and  
infrastructure  
networks.

Focussing on  
structural  
reliability  
methods,  
reliability-based  
optimization,

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structural  
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system  
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reliability and  
risk analysis,  
lifetime  
performance  
and various  
applications in  
civil  
engineering.  
Invaluable to all  
concerned with



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structural  
system  
reliability and  
optimization,  
especially  
students,  
engineers, and  
workers in  
research and  
development.  
This book is  
prepared

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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, the

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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

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structural  
design, namely  
load  
determination,  
design  
calculations and  
detailing are  
introduced to  
the beginner.  
This book is  
useful with the  
2nd part of the

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same book. The comments on the previous editions of the book sent by colleagues, fellow engineers and students are incorporated in this edition. All persons who

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contributed in  
this regard are  
greatly  
acknowledged.  
Suggestions for  
further  
improvement of  
the presentation  
will be  
appreciated and  
will be  
incorporated in

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the future  
editions.

Emphasizing a  
conceptual  
understanding  
of concrete  
design and  
analysis,  
Structural  
Concrete, Third  
Edition builds  
the students

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understanding  
by presenting  
design methods  
in an easy-to-  
understand  
manner  
supported with  
the use of  
numerous  
examples and  
problems.

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latest ACI  
318-05 code,  
this new Third  
Edition includes  
up-to-date  
coverage of  
seismic design,  
including IBC  
2003  
references, and  
new methods  
for predicting

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shear and creep  
in concrete  
based on the  
authors own  
research over  
the past ten  
years which will  
be reflected in  
the forthcoming  
ACI 209 code.  
Reinforced and  
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Interior  
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Performance,  
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***The costs of  
inadequate***

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*earthquake*

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*Manual*

*are huge,*

*especially for*

*reinforced*

*concrete*

*buildings. This*

*book presents*

*the principles*

*of earthquake-*

*resistant*

*structural*

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***engineering,  
and uses the  
latest tools  
and  
techniques to  
give practical  
design  
guidance to  
address single  
or multiple  
seismic  
performance***

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***levels. It presents an elegant, simple and theoretically coherent design framework. Required strength is determined on the basis of an***

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***estimated  
yield  
displacement  
and desired  
limits of  
system  
ductility and  
drift demands.  
A simple  
deterministic  
approach is  
presented***



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***along with its  
elaboration***

***into a***

***probabilistic  
treatment that***

***allows for***

***design to limit  
annual***

***probabilities***

***of failure. The***

***design method***

***allows the***

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***seismic force  
resisting  
system to be  
designed on  
the basis of  
elastic  
analysis  
results, while  
nonlinear  
analysis is  
used for  
performance***

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***verification.  
Detailing  
requirements  
of ACI 318 and  
Eurocode 8 are  
presented.***

***Students will  
benefit from  
the coverage  
of seismology,  
structural  
dynamics,***

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concrete, and  
capacity  
design  
approaches,  
which allows  
the book to be  
used as a  
foundation  
text in  
earthquake  
engineering.***

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***presentation***

***are the SI***

***units,***

***however, the***

***expressions***

***and examples***

***are also given***

***in US***

***Customary***

***units in the***

***starting***

***chapters to***

***Page 118/204***

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

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***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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second  
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comments  
send by  
colleagues,  
fellow  
engineers and  
students are  
acknowledged  
with thanks.  
Suggestions***

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***for further  
improvement  
of the  
presentation  
will be highly  
appreciated  
and will be  
incorporated  
in the future  
editions.***

***This book  
constitutes the***

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Engineering  
(ICETE), held  
at University  
College of  
Engineering  
and organised***

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**by the Alumni  
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**College of  
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India on 22-23  
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proceedings of**

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published in  
three volumes,  
covering seven  
areas:***

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Civil,  
Computer  
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reviewed  
papers from  
around the  
globe present  
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of-the-art  
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postgraduate  
students,  
researchers,  
academics and  
industry  
engineers  
working in the  
respective  
fields. This  
volume  
presents state-***

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***of-the-art,  
technical  
contributions  
in the areas of  
civil,  
mechanical  
and mining  
engineering,  
discussing  
sustainable  
developments  
in fields such***



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resource  
engineering,  
structural  
engineering,  
geotechnical  
and  
transportation  
engineering,  
mining  
engineering,  
production***

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***and***

***production***

***engineering.***

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***teaches***

***readers how to***

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***analyse and  
design with  
fiber  
reinforced  
polymers  
(FRP) for civil  
engineering  
applications. It  
demystifies  
FRP  
composites  
and***

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***demonstrates  
applications  
where their  
properties  
make them  
ideal materials  
to consider off-  
shore and  
waterfront  
structures,  
factories, and  
storage tanks.***

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Design with  
Emphasis on  
Application of  
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Supplied-  
reference  
Handbook***

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Trends in  
Smart  
Modelling  
Systems and  
Design  
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Design of  
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engineers a wealth  
of practical advice  
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structures. It  
covers the  
complete range of  
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and includes  
numerous data  
sheets, charts and  
examples to help  
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fully updated in  
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the theoretical and  
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of analysis and  
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emphasis on the  
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national code to  
embrace the use of  
high-strength

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concrete of up to  
100 MPa, the  
latest Standard  
also includes  
major  
technological  
upgrades, new  
analysis and  
design formulas,  
and new and more  
elaborate  
processes. This

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text addresses all such advances, and features chapters on bending, shear, torsion, bond, deflection and cracking, beams, slabs, columns, walls, footings, pile caps and retaining walls, as

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well as prestressed  
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beams and end  
blocks plus an  
exposition on strut-  
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of the classic text,  
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Structures, is  
completely revised  
using the newly  
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(ACI) Code. This  
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new edition has  
the same dual  
objectives as the  
previous editions:  
first to establish a  
firm  
understanding of  
the behavior of  
structural

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concrete, then to  
develop  
proficiency in the  
methods used in  
current design  
practice. Design of  
Concrete  
Structures covers  
the behavior and  
design aspects of  
concrete and  
provides



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thoroughly  
updated examples  
and homework  
problems

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13th edition also  
features a new  
chapter, Chapter  
10, covering strut-  
and-tie models.

The text also  
presents the basic

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mechanics of  
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structural concrete  
and methods for  
the design of  
individual  
members for  
bending, shear,  
torsion, and axial  
force, and  
provides detail in  
the various types  
of structural

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craftsmanship are  
a necessity for  
structures and  
infrastructures  
that must stand up  
to natural  
disasters on a  
regular basis.  
Continuous

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research  
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the engineering  
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imperative for  
sustaining  
buildings against  
the threat of  
earthquakes and  
other natural  
disasters.

Performance-

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Infrastructures is  
an informative  
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on all the latest  
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emerging data  
associated with  
structural design.  
Highlighting key

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topics such as  
seismic  
assessments, shear  
wall structures,  
and infrastructure  
resilience, this is  
an ideal resource  
for all  
academicians,  
students,  
professionals, and  
researchers that

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are seeking new  
knowledge on the  
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providing a  
thorough  
understanding of  
the subject, rather  
than simply  
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design formulas.  
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revised th  
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papers covering a  
wide range of  
studies on life-

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cost of civil

infrastructure

systems. Topics

include reliability

and optimization as

design basis tools,

monitoring

systems, life-cycle

cost analysis and

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bridge  
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systems, and  
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acceptance  
criteria. The book  
also discusses  
seismic reliability  
analysis of  
deteriorating  
structures, bridge  
inspection  
strategies, life-

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of structures on a  
network level,  
optimal risk-based  
design of  
infrastructures,  
updating bridge  
reliability using  
load monitoring  
data and statistics  
of extremes,  
rehabilitation of  
bridges, and  
lifetime analysis*

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and structural  
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repair of civil  
infrastructure  
systems.

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*Written for the practicing architect,*

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*Structural  
Design addresses  
the process on  
both a conceptual  
and a  
mathematical level.  
Most importantly, it  
helps architects  
work with structural  
consultants and  
understand all the  
necessary  
considerations  
when designing*



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with hundreds of  
drawings,  
photographs, and o  
ther illustrations--m  
aking this book  
truly architect-  
friendly.

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and Testing of IBRC  
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Life Cycle Analysis  
and Assessment in  
Civil Engineering:  
Towards an  
Integrated Vision  
Durability of  
Building Materials  
and Components 8*

**This book is**

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**intended for  
classroom teaching  
in architectural and  
civil engineering at  
the graduate and  
undergraduate  
levels. Although it  
has been developed  
from lecture notes  
given in structural  
steel design, it can  
be useful to  
practicing  
engineers. Many of**

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**8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a**





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**the complete  
structural design of  
a multi-story  
building using  
standard design  
procedures as  
specified by AISC  
Specifications.**

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AISC Steel  
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Manual is a must in  
teaching this  
course. In the**

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**second semester,  
Chapters 9 through  
13 should be**

**covered. At the  
undergraduate level,  
Chapters 11 through  
13 should be used  
on a limited basis,  
leaving the student  
more time to  
concentrate on  
composite  
construction and  
built-up girders.**

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