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Concrete Design  
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Concrete  
Design By  
Mosley Fifth  
Edition*

*This book will  
provide  
comprehensive,  
practical  
knowledge for*

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Concrete Design  
By Masley Fifth  
Edition

*the design of  
reinforced  
concrete  
buildings. The  
approach will be  
unique as it  
will focus  
primarily on the  
design of  
various  
structures and  
structural  
elements as done  
in design*

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*offices with an emphasis on compliance with the relevant codes. It will give an overview of the integrated design of buildings and explain the design of various elements such as slabs,*

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Concrete Design  
By Mosley Fifth  
Edition

*beams, columns, walls, and footings. It will be written in easy-to-use format and refer to all the latest relevant American codes of practice (IBC and ASCE) at every stage. The book will compel users to think*

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Edition

*critically to  
enhance their  
intuitive design  
capabilities.*

*Completely  
revised and  
updated, this  
fourth edition  
of Structural  
Steelwork:*

*Design to Limit  
State Theory  
describes the  
design theory*

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*and code*  
By Mosley Fifth  
Edition  
*requirements for*  
common

*structures,  
connections,  
elements, and  
frames. It  
provides a  
comprehensive  
introduction to  
structural  
steelwork design  
with detailed  
explanations of*

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the principles  
underlying steel

design. See

what's in the

*Fourth Edition:*

*All chapters*

*updated and*

*rearranged to*

*comply with*

*Eurocode 3*

*Compliant with*

*the other*

*Eurocodes*

*Coverage of both*

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UK and Singapore  
By Mosley Fifth

Edition  
Illustrated with

*fully worked*

*examples and*

*practice*

*problems The*

*fourth edition*

*of an*

*established and*

*popular text,*

*the book*

*provides*

*guidance for*



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students of  
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structural and  
Edition  
civil

engineering and  
is also  
sufficiently  
informative for  
practising  
engineers and  
architects who  
need an  
introduction to  
the Eurocodes.

The purpose of

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*this text is to provide a straightforward introduction to the principles and methods of design for concrete structures. The theory and practice described are of fundamental nature and will*

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*be of use  
internationally.*

*Shows the  
unifying  
generality of  
the proposed  
approach and the  
reliability of  
the ensuing  
computer  
package, for  
which the sole  
input is the  
specified*

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*cylinder strength of concrete and the yield is the stress of steel. This book offers an understanding of structural concrete behaviour, and illustrates the revision required for improving*

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*methods.*

*Plastic Methods  
for Steel and*

*Concrete  
Structures*

*Design of  
Structural  
Elements*

*Design Theory  
and Examples,  
Fourth Edition*

*Design Theory  
and Examples,  
Third Edition*

*Page 13/132*

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*For courses in reinforced concrete. A practitioner's guide to reinforced concrete design Reinforced Concrete Design integrates current building and material codes with realistic examples to give readers a practical*

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*understanding of this field and the work of its engineers. Using a step-by-step solution format, the text takes a fundamental, active-learning approach to analyzing the design, strength, and behavior of reinforced concrete members and simple reinforced concrete structural systems.*

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*Content throughout the 9th edition conforms to the latest version of ACI-318 Code. It expands discussion of several common design elements and practice issues, and includes more end-of-chapter problems reflecting real-world design projects.*

*This textbook describes*



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*the basic mechanical  
features of concrete  
and explains the main*

*resistant mechanisms  
activated in the*

*reinforced concrete  
structures and*

*foundations when  
subjected to centred*

*and eccentric axial  
force, bending*

*moment, shear, torsion  
and prestressing. It*

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*presents a complete set  
of limit-state design*

*criteria of the modern  
theory of RC*

*incorporating principles  
and rules of the final  
version of the official  
Eurocode 2. This*

*textbook examines  
methodological more  
than notional aspects  
of the presented topics,  
focusing on the*

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*verifications of assumptions, the rigorousness of the analysis and the consequent degree of reliability of results. Each chapter develops an organic topic, which is eventually illustrated by examples in each final paragraph containing the relative numerical applications.*

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*These practical end-of-chapter appendices and intuitive flow-charts ensure a smooth learning experience.*

*The book stands as an ideal learning resource for students of structural design and analysis courses in civil engineering, building construction and architecture, as well as*

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*a valuable reference*

*for concrete structural*

*design professionals in*

*practice.*

*Annotation - Basis of*

*design - Materials -*

*Durability - Structural*

*analysis - Ultimate*

*limit states -*

*Serviceability limit*

*states - Detailing of*

*reinforcement and*

*prestressing tendons -*

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*Detailing for members  
and particular rules -*

*Additional rules for  
precast concrete*

*structures - Design for  
the execution stages.*

*This book provides, in  
SI units, an integrated*

*design approach to  
various reinforced*

*concrete and steel  
structures, with*

*particular emphasis on*

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*the logical presentation  
of steps conforming to*

*Indian Standard*

*Codes. Detailed*

*drawings along with*

*carefully chosen*

*examples, many of*

*them from examination*

*papers, greatly*

*facilitate the*

*understanding of the*

*subject.*

*Prestressed Concrete*

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*Design by Computer*

*Reinforced Concrete*

*Design to EuroCode 2*

*(EC2)*

*Structural Use of*

*Concrete*

*Worked Examples for*

*the Design of Concrete*

*Structures to Eurocode*

*2*

*To Eurocode 2*

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DesignPalgraveReinfo



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2 Red Globe Press

This practical design

guide illustrates

through worked

examples how

Eurocode 2 may be

used in practice.

Complete and detailed

designs of six

archetypal building

and public utility

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structures are provided. The book caters to students and engineers with little or no practical experience of design, as well as to more experienced engineers who may be unfamiliar with Eurocode 2. Chapter 1 provides an introduction to the

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Structural Eurocodes, with particular reference to actions on structures. Chapter 2 describes the principles, requirements and methods used for the design of members. This is followed by worked examples for the following structures: A multi-

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storey office building  
with three forms of  
floor construction A  
basement to the office  
building with three  
types of foundations A  
free-standing  
cantilever earth-  
retaining wall A large  
underground service  
reservoir An open-top  
rectangular tank on  
an elastic soil An open-

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top cylindrical tank on an elastic soil In addition to the design of all the elements, the analysis of each structure is fully explained. This applies particularly to the design of the basement, and the tanks bearing on elastic soils, for which specially derived

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tables are included in appendices to the book. The calculations are complemented by reinforcement drawings in accordance with the recommendations in the third edition (2006) of the Standard method of detailing structural concrete, with commentaries on

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the bar arrangements.

This book can be used

as a stand-alone

publication, or as a

more detailed

companion to

Reynolds's

Reinforced Concrete

Designer's

Handbook, now in its

11th edition. The

comprehensive

treatment of the

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designs, and the variety of structures considered, make this a unique and invaluable work.

Prestressed concrete is widely used in the construction industry in buildings, bridges, and other structures. The new edition of this book provides up-to-date guidance on the



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detailed design of prestressed concrete structures according to the provisions of the latest preliminary version of Eurocode 2: Design of Concrete Structures, DD ENV 1992-1-1: 1992. The emphasis throughout is on design - the problem of providing a structure to fulfil a

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given purpose - but fundamental concepts are also described in detail. All major topics are dealt with, including prestressed flat slabs, an important and growing application in the design of buildings. The text is illustrated throughout with worked examples

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and problems for further study.

Examples are given of computer spreadsheets for typical design calculations.

Prestressed Concrete Design will be a valuable guide to practising engineers, students and research workers.

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Plastic behaviour and the methods for calculating the collapse load of steel structures are discussed and examined. An explanation of the effects of deflections, instability and imperfections on the collapse of structures is followed by a

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description of the  
design methods for  
steel structures.

Steel Fiber Reinforced  
Concrete

Reinforced Concrete  
and Steel

Concrete, Steelwork,  
Masonry and Timber

Designs to British  
Standards and

Eurocodes, Third  
Edition

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CONCRETE DESIGN

Reinforced Concrete  
Designer's Handbook,  
Eleventh Edition

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

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*to steel in 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.***

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***Well-illustrated with case 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***



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*mounted*  
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*reinforcement applications. The text 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*

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*research worldwide.*

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*Includes an*

*explanation of the*

*key 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*

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***columns Offers a justification for the development of strength reduction 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***

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*practitioners and  
focuses on the*

*fundamentals of*

*performance and*

*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*

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***at the University of  
Miami and the  
University of Naples  
Federico II. Antonio  
De Luca and Hany  
Zadeh are  
consultant design  
engineers.***

***Now in its second  
edition, the  
Structural  
Engineer's Pocket  
Book is a  
comprehensive***

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By Mosley Fifth  
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***pocket reference  
guide for  
professional and  
student structural  
engineers,  
particularly those  
taking the iStructE  
Part 3 Exam. The  
combination of  
tables, data, facts,  
formulae and rules  
of thumb make it a  
valuable aid in  
scheme design for***

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***structural engineers  
in the office, in  
transit or on site.***

***Concise and  
precise, this second  
edition is updated to  
reflect changes to  
the British  
Standards, which  
are used and  
referenced  
throughout, as well  
as the addition of a  
new section on***

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**sustainability. Other  
subject areas**

***include timber,  
masonry, steel,  
concrete, aluminium  
and glass.***

***This classic and well-  
respected textbook  
provides the most  
comprehensive  
coverage of the  
process of design  
for structural  
elements and***



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***features a wealth of practical problems and real-world examples. It introduces readers to the design requirements of the Eurocodes for the four most commonly used materials in construction: concrete, steel, timber and masonry, and illustrates the***

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***concepts and calculations necessary for the design of the most frequently encountered basic structural elements. It includes a detailed section on structural analysis. The scope of this text is wide, and its numerous examples, problems and easy-to-follow***

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***diagrams make it an  
ideal course text.***

***This user-friendly  
text is an***

***indispensable***

***resource both for***

***undergraduates in***

***all years of civil***

***engineering and***

***structural***

***engineering, in***

***construction and***

***architecture, and for***

***practising engineers***

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***looking to refresh  
their knowledge.***

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

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***conjunction with  
concrete  
construction.***

***Fulfilling the need  
for a  
comprehensive,  
explicit guide,  
Reinforced Concrete  
Design with FRP  
Composites  
presents specific  
informat  
Reinforced Concrete  
Designer's***

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*Handbook*  
*Finite-element*  
*Analysis for Limit-*  
*state Design*  
*Structural Design*  
*and Drawing*  
*Designers' Guide to*  
*EN 1992-2*  
*Reinforced Concrete*  
*Design to Eurocode*  
**2**

This  
established and

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popular  
textbook has  
now been  
extensively  
rewritten and  
expanded in  
line with the  
current  
Eurocodes. It  
presents the  
principles of  
the design of  
concrete

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elements and also the design of complete structures, and provides practical illustrations of the theory. It explains the background to the Eurocode rules and goes beyond the c



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This classic and essential work has been thoroughly revised and updated in line with the requirements of new codes and standards which have been introduced in recent years,

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including the new Eurocode as well as up-to-date British Standards. It provides a general introduction along with details of analysis and design of a wide range of

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structures and  
examination of  
design  
according to  
British and  
then European  
Codes. Highly  
illustrated  
with numerous  
line diagrams,  
tables and  
worked  
examples,

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Reynolds's  
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Designer's  
Handbook is a  
unique resource  
providing  
comprehensive  
guidance that  
enables the  
engineer to  
analyze and  
design

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reinforced  
concrete  
buildings,  
bridges,  
retaining  
walls, and  
containment  
structures.  
Written for  
structural  
engineers,  
contractors,  
consulting

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engineers,  
local and  
health  
authorities,  
and utilities,  
this is also  
excellent for  
civil and  
architecture  
departments in  
universities  
and FE  
colleges.

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Intended as a companion volume to the author's Limit State Design of Reinforced Concrete (published by Prentice-Hall of India), the Second Edition of this comprehensive

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systematically  
organized text  
builds on the  
strength of the  
first edition,  
continuing to  
provide a clear  
and masterly  
exposition of  
the  
fundamentals of  
the theory of



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concrete design. The text meets the twin objective of catering to the needs of the postgraduate students of Civil Engineering and the needs of the practising

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civil engineers  
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as it focuses  
also on the  
practices  
followed by the  
industry. This  
text, along  
with Limit  
State Design,  
covers the  
entire design  
practice of  
revised Code

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In addition, it analyzes the procedures specified in many other BIS codes such as those on winds, earthquakes, and ductile detailing.

What's New to  
This Edition

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Chapter 18 on Earthquake Forces and Structural Response of framed buildings has been completely revised and updated so as to conform to the latest I.S. Codes 1893

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(2002) entitled  
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Criteria for  
Earthquake  
Resistant  
Design of  
Structures  
(Part I - Fifth  
Revision).  
Chapters 19 and  
21 which too  
deal with  
earthquake  
design have

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been revised. A Summary of elementary design of reinforced concrete members is added as Appendix.

Valuable tables and charts are presented to help students

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and practising  
designers to  
arrive at a

speedy estimate  
of the steel  
requirements in  
slabs, beams,  
columns and  
footings of  
ordinary  
buildings.

Detailing is an  
essential part

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



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standards such as Eurocode 8 (EC8), where appropriate. With its large format, double-page spread layout, this book systematically details 213 structural Behavior,

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by Computer  
Design to Limit  
State Theory,  
Fourth Edition  
Structural  
Steelwork

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This text is developed from the established and well-known textbook Reinforced Concrete Design. It adopts the same format of presentation to cover the design and detailing of reinforced and

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prestressed  
concrete members

and structures to

the new Eurocode

for the design of

concrete

structures

(Eurocode 2:

Design of

Concrete

Structures, Part 1).

The contents of

this book have

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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

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which are inadequately covered by the current codes and design manuals; and to give authoritative review. The nature of concrete is rapidly changing, and with it, there are rising concerns.

Thoroughly  
*Page 78/132*

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revised and updated, this fourth edition of Concrete Mix Design, Quality Control and Specification addresses current industry practices that provide inadequate durability and fail to eliminate

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problems with

underperforming

new concrete and

defective testi

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Description

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Seismic Design

Aids for Nonlinear

Analysis of



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Structures

Design theory and  
examples

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Concrete with FRP  
Bars

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well-known book  
makes available  
to structural

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design  
engineers a  
wealth of  
practical  
advice on  
effective  
design of  
concrete  
structures. It  
covers the  
complete range  
of concrete  
elements and

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includes numerous data sheets, charts and examples to help the designer. It is fully updated in line with the relevant British Standards and Codes of Practice.

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This work provides a straightforward introduction to the principles and methods of design for concrete structures. It is directed primarily at students and young designers

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who require understanding of the basic theory and a concise guide to design procedures. The theory and practice described in the book are of a fundamental nature and will

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be of use internationally.

Limit state concepts are used, and the calculations are in SI units throughout. The principal aim of the fifth edition has been to update the text to

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incorporate changes and amendments introduced in the 1997 version of BS8110 and to include new material such as pile cap design. A complete new chapter on

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composite  
construction  
has been  
introduced.

Important  
equations that  
have been  
derived within  
the text are  
highlighted by  
an asterix  
adjacent to the  
equation



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Tools to  
Safeguard New  
Buildings and  
Assess Existing  
Ones Nonlinear  
analysis  
methods such as  
static pushover  
are globally  
considered a  
reliable tool  
for seismic and

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assessment. But  
the accuracy of  
seismic  
capacity  
estimates—which  
can prevent  
catastrophic  
loss of life  
and  
astronomical  
damage repair  
costs—depends

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on the use of  
the correct  
basic input  
parameters.

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Aids for  
Nonlinear  
Analysis of  
Reinforced  
Concrete  
Structures  
simplifies the  
estimation of

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those vital parameters. Many design engineers make the relatively common mistake of using default properties of materials as input to nonlinear analyses

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without realizing that any minor variation in the nonlinear characteristics of constitutive materials, such as concrete and steel, could result in a solution error that leads to

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incorrect  
assessment or  
interpretation.

Streamlined  
Analysis Using  
a Mathematical  
Model To  
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**This book  
discusses  
design aspects  
of steel fiber-  
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concrete  
(SFRC)  
members,**

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**including the  
behavior of  
the SFRC and  
its modeling.  
It also  
examines the  
effect of  
various  
parameters  
governing the  
response of  
SFRC members**

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**describes the  
basic concepts  
and principles  
of designing  
structural  
members using  
SFRC as a  
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**shear.**  
**Although**  
**applications**  
**to special**  
**structures,**  
**such as**  
**bridges,**  
**retaining**  
**walls, tanks**  
**and silos are**  
**not**  
**specifically**



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**covered, the  
fundamental  
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introduces the  
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**related  
theories for  
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concrete  
members  
concisely and  
logically, and  
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**material models to predict the response of SFRC members in detail. These are then gradually extended to develop an analytical flexural model**

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**analysis and  
design of SFRC  
members. The  
lack of such a  
discussion is  
a major  
hindrance to  
the adoption  
of SFRC as a  
structural  
material in**

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practice. This  
book helps  
users appraise  
the role of  
fiber as  
reinforcement  
in concrete  
members used  
alone and/or  
along with  
conventional**

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**rebars.  
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to singly and  
doubly  
reinforced  
beams and  
slabs are  
illustrated  
with examples,  
using both  
SFRC and  
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**reinforced  
concrete as a  
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material. The  
influence of  
the addition  
of steel  
fibers on  
various  
mechanical  
properties of  
the SFRC**

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**members is discussed in detail, which is invaluable in helping designers and engineers create optimum designs. Lastly, it describes the generally**



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**accepted  
methods for  
specifying the  
steel fibers  
at the site  
along with the  
SFRC mixing  
methods,  
storage and  
transport and  
explains in  
detail methods**

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