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Engineering Rcc

**Civil Engine**

**ering Rcc**

**Design**

**Manual**

**This book is a complete tutorial for analysis, designing and detailing of RCC buildings by both**

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**manual and  
computer  
software  
(STAAD.Pro and S  
TAAD.foundation)  
means. It  
explains the  
processes of  
analysis and  
design of a  
multistorey  
building step by  
step by limit state**

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**method  
employing self-  
load, service load  
and earthquake  
loads. It uses a  
single example of  
a real-world  
reinforced  
concrete building  
problem to  
explain all the  
processes  
analysis and**

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**design from  
beginning to end.**

**This makes the  
book most useful  
for students and  
practicing  
professional  
alike. This is a  
must book for  
civil and  
structural  
engineering  
students,**

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**teachers and  
construction  
professionals.  
Emphasizing a  
conceptual  
understanding of  
concrete design  
and analysis, this  
revised and  
updated edition  
builds the  
student's  
understanding by**

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Engineering Rcc  
Design Manual  
**presenting design**

**methods in an**

**easy to**

**understand**

**manner**

**supported with**

**the use of**

**numerous**

**examples and**

**problems.**

**Written in**

**intuitive, easy-to-**

**understand**

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

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**been completely  
updated to reflect**

**the latest ACI**

**318-11 code.**

**This book**

**provides an**

**extensive**

**coverage of the**

**design of**

**reinforced**

**concrete**

**structures in**

**accordance with**



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**the current Indian code of practice (IS 456: 2000). As some of the Indian code provisions are outdated, the American code provisions are provided, wherever necessary. In addition, an**

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**attempt is made to integrate the provisions of IS 456 with earthquake code (IS 13920), as more than 60% of India falls under moderate or severe earthquake zones. The text is based on the limit**

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**state approach to  
design and covers**

**areas such as the**

**properties of**

**concrete, design**

**of various**

**structural**

**elements such as**

**compression and**

**tension members,**

**beams & slabs,**

**and design for**

**flexure, shear**

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Design Manual  
**torsion, uni-axial  
and biaxial**

**bending and  
interaction of  
these forces.**

**Each chapter  
features solved  
examples, review  
questions, and  
practice problems  
as well as ample  
illustrations that  
supplement the**

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**text. An exhaustive list of references as well as appendices on strut-and-tie-method, properties of soils, and practical tips add value to the rich contents of book. Detailing is an essential part of**

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**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 standards such as**

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**Eurocode 8  
(EC8), where  
appropriate. With  
its large format,  
double-page  
spread layout,  
this book  
systematically  
details 213  
structural  
Static and  
Dynamic Methods  
Concrete**

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**Construction  
Engineering  
Handbook  
DESIGN OF  
REINFORCED  
CONCRETE  
STRUCTURES  
LIMIT STATE  
DESIGN OF  
REINFORCED  
CONCRETE**

Encouraging

*Page 16/149*



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creative uses of reinforced concrete, Principles of Reinforced Concrete Design draws a clear distinction between fundamentals and professional consensus. This text presents a mixture of fundamentals along with practical methods. It provides

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the fundamental concepts required for designing reinforced concrete (RC) structures, emphasizing principles based on mechanics, experience, and experimentation, while encouraging practitioners to consult their local

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building codes. The book presents design choices that fall in line with the boundaries defined by professional consensus (building codes), and provides reference material outlining the design criteria contained in building codes. It includes applications

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for both building and  
bridge structural

design, and it is  
applicable

worldwide, as it is

not dependent upon

any particular codes.

Contains concise

coverage that can be

taught in one

semester

Underscores the

fundamental

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Design Manual  
principles of  
behavior Provides

students with an  
understanding of the  
principles upon  
which codes are  
based Assists in  
navigating the  
labyrinth of ever-  
changing codes  
Fosters an inherent  
understanding of  
design The text also

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provides a brief history of reinforced concrete. While the initial attraction for using reinforced concrete in building construction has been attributed to its fire resistance, its increase in popularity was also due to the creativity of engineers who

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kept extending its limits of application.

Along with height achievement, reinforced concrete gained momentum by providing convenience, plasticity, and low-cost economic appeal. Principles of Reinforced Concrete Design provides

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undergraduate students with the fundamentals of mechanics and direct observation, as well as the concepts required to design reinforced concrete (RC) structures, and applies to both building and bridge structural design.



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This highly successful book describes the background to the design principles, methods and procedures required in the design process for reinforced concrete structures. The easy to follow style makes it an ideal reference

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for students and professionals alike.

The first edition of this comprehensive work quickly filled the need for an in-depth handbook on concrete

construction

engineering and

technology. Living up

to the standard set

by its bestselling

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predecessor, this  
second edition of the

Design Manual

Concrete

Construction

Engineering

Handbook covers

the entire range of

issues pertaining to

the construction

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,  
design, and detailing  
requirements in the  
2008 American  
Concrete Institute

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(ACI) Building Code  
Requirements for  
Structural Concrete  
and Commentary  
and the 2009

International Code  
Council (ICC)

International Building  
Code (IBC). This

authoritative

resource discusses  
reinforced concrete  
members and

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

Design procedures and flowcharts guide you through code requirements, and worked-out examples

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demonstrate the proper application of the design provisions.

COVERAGE

INCLUDES:

Mechanics of reinforced concrete

Material properties of concrete and reinforcing steel

Considerations for analysis and design

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of reinforced  
concrete structures

Requirements for  
strength and  
serviceability

Principles of the  
strength design  
method Design and  
detailing

requirements for  
beams, one-way  
slabs, two-way  
slabs, columns,



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walls, and  
foundations

British Standards

Edition

DESIGN OF

CONCRETE

STRUCTURES

Structural Concrete

Design theory and

examples

Design of

Prestressed

Concrete

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This 'Concise Handbook' has been prepared, keeping in view mainly the requirements of practising Civil Engineers, with all the essential of a useful 'Concise Handbook'. such as the latest

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design formulae,  
graphs, diagrams  
and tables  
etc., to solve  
day-to-day work  
problems. These  
details have  
been adopted  
mostly from the  
national  
building  
code. The book  
will be equally  
helpful to civil

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Engineering  
students and  
teachers.

Design of Wind  
and Earthquake

Resistant

Reinforced

Concrete

Buildings

explains wind

and seismic

design issues of

RCC buildings in

brief and

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provides design  
examples based

on

recommendations

of latest IS

codes essential

for industrial

design.

Intricate issues

of RCC design

are discussed

which are

supplemented by

real-life

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examples.

Guidelines are presented for evaluating the acceptability of wind-induced motions of tall buildings.

Design methodologies for structures to deform well beyond their elastic limits,

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which is essential under seismic excitation, have been discussed in detail.

Comparative discussion including typical design examples using recent British, Euro and American codes

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is also  
included.

Features:

Explains wind  
and earthquake  
resistant design  
issues,  
balancing  
theoretical  
aspects and  
design  
implications, in  
detail Discusses  
issues for



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designing the  
wind and

earthquake  
resistant RCC  
structures

Provides  
comprehensive  
understanding,  
analysis, design  
and detailing of  
the structures

Includes a  
detailed  
discussion on IS

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code related to  
wind and  
earthquake  
resistant design  
and its  
comparison with  
Euro, British  
and American  
codes Contains  
architectural  
drawings and  
structural  
drawings The  
book is aimed at

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researchers,  
professionals,  
graduate  
students in wind  
and earthquake  
engineering,  
design of RCC  
structures,  
modelling and  
analysis of  
structures, civil  
I/infrastructure  
engineering.

This textbook

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describes 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

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eccentric axial force, bending moment, shear, torsion and prestressing. It presents a complete set of limit-state design criteria of the modern theory of RC incorporating principles and rules of the

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final version of  
the official  
Eurocode 2. This  
textbook  
examines  
methodological  
more than  
notional aspects  
of the presented  
topics, focusing  
on the  
verifications of  
assumptions, the  
rigorousness of

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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

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numerical  
applications.

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



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structural  
design and  
analysis courses  
in civil  
engineering,  
building  
construction and  
architecture, as  
well as a  
valuable  
reference for  
concrete  
structural  
design

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professionals in  
practice.

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

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comprehensive  
and

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  
concrete design.

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The text meets  
the twin

objective of  
catering to the  
needs of the  
postgraduate  
students of  
Civil

Engineering and  
the needs of the  
practising civil  
engineers as it  
focuses also on  
the practices

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followed by the industry. This text, along with Limit State Design, covers the entire design practice of revised Code IS456 (2000). In addition, it analyzes the procedures specified in many other BIS

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codes such as those on winds, earthquakes, and ductile detailing.

What's New to This Edition  
Chapter 18 on Earthquake Forces and Structural Response of framed buildings has been

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completely  
revised and  
updated so as to  
conform to the  
latest I.S.

Codes 1893  
(2002) entitled  
Criteria for  
Earthquake  
Resistant Design  
of Structures  
(Part I - Fifth  
Revision).

Chapters 19 and

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21 which too deal with earthquake design have been revised. A Summary of elementary design of reinforced concrete members is added as Appendix. Valuable tables and charts are



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presented to help students and practising designers to arrive at a speedy estimate of the steel requirements in slabs, beams, columns and footings of ordinary buildings.

Handbook of

*Page 57/149*

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Concrete  
Engineering  
Concise Handbook  
of Civil  
Engineering  
Design of  
Reinforced  
Concrete  
Structures  
Reinforced  
Concrete Design  
Design of R.C.C.  
Buildings using  
Staad Pro V8i

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with Indian  
Examples Design Manual

Publisher Description

Bureau of Indian  
Standards, Delhi

made large number of  
changes and  
alterations in IS:

456-2000, Code of  
Practice for Plain and  
Reinforced concrete.

Realizing the  
necessity and  
importance, authors

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have updated the complete text and presented this subject "Limit State Design of Concrete Structures". Ultimate Limit State (ULS- conditions to be avoided) and serviceability Limit State (SLS- limits undesirable cracks and deflections) are two main essential elements of this

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subject. ULS includes

Limit State of

Collapse in

compression, in

flexure, in shear and

in torsion as sub

elements. Whereas,

SLS includes Limit

State of Serviceability

for deflections,

cracking, fatigue,

durability and

vibrations as sub-

elements. Features:

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(i) Text for life of concrete structures, fire resistance and corrosion. (ii) For all those, who carry-out their design using computer-programme, authors have given procedures (developed by them) for determining the stress in Hysd-steel bars corresponding to strain developed in

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concrete.

Design Manual

Manual for the Design  
of Concrete Building  
Structures to

Eurocode

2ADVANCED

REINFORCED

CONCRETE

DESIGN PHI Learning

Pvt. Ltd.

This book will provide  
comprehensive,  
practical knowledge  
for the design of

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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 offices with an emphasis on compliance with the relevant codes. It will give an overview of the integrated design



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of buildings and explain the design of various elements such as slabs, 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 critically

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to enhance their  
intuitive design  
capabilities.

FUNDAMENTALS OF  
REINFORCED

CONCRETE DESIGN

Manual for the Design  
of Concrete Building

Structures to

Eurocode 2

Design of Reinforced

Concrete

Comprehensive

Rcc.Designs

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Principles of  
Reinforced Concrete  
Design

***The new edition  
of Reinforced  
Concrete Design  
includes the  
latest technical  
advances,  
including the  
1995 American  
Concrete  
Institute  
Building Code.***

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***Review questions and problem sets at the end of every chapter are identical to those your civil engineering undergraduates will encounter in practice. This text primarily analyses different***

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***methods of  
design of  
concrete  
structures as per  
IS 456: 2000  
(Plain and  
Reinforced  
Concrete—Indian  
Standard Code of  
Practice, 4th  
revision, Bureau  
of Indian  
Standards). It  
gives greater***

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***emphasis on the limit state method so as to illustrate the acceptable limits for the safety and serviceability requirements of structures. Besides dealing with yield line analysis for slabs, the book explains the***

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***working stress  
method and its  
use for designing  
reinforced  
concrete tension  
members, theory  
of redistribution  
of moments, and  
earthquake  
resistant design  
of structures.  
This well-  
structured book  
develops an***

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***effective understanding of the theory through numerous solved problems, presenting step-by-step calculations. The use of SP-16 (Design Aids for Reinforced Concrete to IS: 456-1978) has***



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***also been explained in solving the problems. KEY FEATURES :***

***Instructional Objectives at the beginning of the chapter highlight important concepts.***

***Summary at the end of the chapter to help***

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***student revise  
key points. Sixty-  
nine solved  
illustrative  
examples  
presenting step-  
by-step  
calculations.  
Chapter-end  
exercises to test  
student's  
understanding of  
the concepts.  
Forty Tests to***

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***enable students  
to gauge their  
preparedness for  
actual exams.***

***This  
comprehensive  
text is suitable  
for  
undergraduate  
students of civil  
engineering and  
architecture. It  
can also be  
useful to***

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**professional  
engineers.**

***Now in its second  
edition, the  
Structural  
Engineer's  
Pocket Book is a  
comprehensive  
pocket reference  
guide for  
professional and  
student  
structural  
engineers,***

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***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 structural engineers in the office, in transit***

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**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.**  
Design Manual

**Other subject areas include timber, masonry, steel, concrete, aluminium and glass.**

**Based on the 1995 edition of the American Concrete Institute Building Code, this text explains**

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Engineering Rec

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***the theory and practice of reinforced concrete design in a systematic and clear fashion, with an abundance of step-by-step worked examples, illustrations, and photographs. The focus is on***



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***preparing  
students to make  
the many  
judgment  
decisions  
required in  
reinforced  
concrete design,  
and reflects the  
author's  
experience as  
both a teacher of  
reinforced  
concrete design***

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***and as a member of various code committees. This edition provides new, revised and expanded coverage of the following topics: core testing and durability; shrinkage and creep; bases the maximum steel ratio and the***

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***value of the  
factor on  
Appendix B of  
ACI318-95;  
composite  
concrete beams;  
strut-and-tie  
models; dapped  
ends and T-beam  
flanges. It also  
expands the  
discussion of  
STMs and adds  
new examples in***

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***SI units.***

***Theory and***

***Design***

***Manual for***

***Detailing***

***Reinforced***

***Concrete***

***Structures to***

***EC2***

***Reinforced***

***Concrete***

***Designer's***

***Handbook***

***ADVANCED***

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**REINFORCED  
CONCRETE  
DESIGN**

***Structural  
Engineer's  
Pocket Book, 2nd  
Edition***

CONTENTS: Part  
1: Working Stress  
Method

1. Introduction
2. Theory of reinforced beams

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- and Slabs
3. Shear and bond
4. Torsion
5. Doubly reinforced beams
6. T and L-Beams
7. Design of beams and Slabs
8. Design of stair cases
9. Reinforced brick and hollow tile roofs
10. Two-way slabs
11. Circular slabs
12. Flat slabs
13. Axially loaded

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columns

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14. Combined direct  
and bending  
stresses

15. Continuous and  
isolated footings

16. Combined  
footings 17. Pile  
foundations

18. Retaining Walls

Part 11: Water

Tanks 19. Domes

20. Beams curved in

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plan 21. Water  
tanks-1 Simple

cases 22. Water

tanks-11 Circular &  
INTZE Tanks

23. Water tanks-111:  
Rectangular tanks

24. Water tanks-IV:  
Underground tanks

Part

111: Miscellaneous  
Structures

25. Reinforced



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concrete pipes

26.Bunkers and

silos 27.Chimneys

28.Portal frames

29.Building frames

Part IV:Concrete

Bridges 30.

Aqueducts and box

culverts

31.Concrete Bridges

Part V: Limit State

Design 32.Design

concepts 33.Singly

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reinforced section

34.Doubly

reinforced sections

35.T and L-Beams

36.Shear bond and

torsion 37.Design of

beams and slabs

38.Axially loaded

columns

39.Columns with

Uniaxial and Biaxial

bending 40.Design

of stair cases

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41. Two way slabs

42. Circular slabs

43. Yield Line theory  
and design of slabs

44. Foundations Part

IV: Prestressed

concrete and

Miscellaneous

Topics

45. Prestressed

concrete

46. Shrinkage and

creep 47. Form-

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Work 48. Tests for  
cement and  
concrete

For courses in  
reinforced concrete.

A practitioner's  
guide to reinforced  
concrete design

Reinforced

Concrete Design

integrates current  
building and

material codes with

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realistic examples to give readers a practical 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

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design, strength, and behavior of reinforced concrete members and simple reinforced concrete structural systems. Content throughout the 9th edition conforms to the latest version of ACI-318 Code. It expands discussion of several common

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design elements and practice issues, and includes more end-of-chapter problems reflecting real-world design projects.

This fourth edition of a bestselling textbook has been extensively rewritten and expanded in line with the current

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Eurocodes. It presents the principles of the design of concrete elements and of complete structures, with practical illustrations of the theory. It explains the background to the Eurocode rules and goes beyond the core topics to



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cover the design of foundations, retaining walls, and water retaining structures. The text includes more than sixty worked out design examples and more than six hundred diagrams, plans, and charts. It suitable for civil engineering courses

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Design Manual

and is a useful  
reference for  
practicing  
engineers.

The purpose of this  
manual is to provide  
information and  
guidance on the use  
of roller-compacted  
concrete (RCC) in  
dams and other civil  
works structures.

Elements discussed

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include investigation  
and selection of  
materials, mixture  
proportioning,  
material properties,  
design and  
construction  
considerations,  
construction  
methods and  
equipment,  
Government Quality  
Assurance/Contract

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Engineering Rcc  
Design Manual  
or Quality Control,  
and performance.

This manual is  
intended to serve as  
a companion to  
Engineer Manual  
(EM) 1110-2-2000,  
"Standard Practice  
for Concrete for Civil  
Works Structures."

The user of this  
manual should have  
a copy of EM

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1110-2-2000 and  
the references listed  
therein. This manual  
does not cover RCC  
for pavements.

Step by Step Rcc  
Design of  
Multistorey  
Buildings  
Reinforced  
Concrete Design to  
Eurocodes  
Engineering and

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Design Manual

Design. Roller-  
Compacted

Concrete

A Fundamental

Approach

Reinforced

Concrete

***This new***

***edition of a***

***highly***

***practical text***

***gives a***

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Design Manual

***detailed  
presentation  
of the design  
of common  
reinforced  
concrete  
structures to  
limit state  
theory in  
accordance  
with BS 8110.  
Designed***

Page 103/149

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Engineering Rcc  
Design Manual

***primarily as a  
text for the  
undergraduate  
students of  
civil  
engineering,  
this compact  
and well-  
organized text  
presents all  
the basic  
topics of***



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***reinforced  
concrete  
design in a  
comprehensive  
manner. The  
text conforms  
to the limit  
states design  
method as  
given in the  
latest revision  
of Indian Code***

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Engineering Rcc  
Design Manual

***of Practice for  
Plain and  
Reinforced  
Concrete, IS:  
456 (2000).***

***This book  
covers the  
applications of  
design  
concepts and  
provides a  
wealth of stat***

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Design Manual

***e-of-the-art  
information on  
design aspects  
of wide variety  
of reinforced  
concrete  
structures.***

***However, the  
emphasis is on  
modern design  
approach. The  
text attempts***

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**to: • Present  
simple,  
efficient and  
systematic  
procedures for  
evolving  
design of  
concrete  
structures. •  
Make available  
a large  
amount of**

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Design Manual

***field tested  
practical data  
in the  
appendices. •  
Provide time  
saving  
analysis and  
design aids in  
the form of  
tables and  
charts. •  
Cover a large***

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***number of  
worked-out  
practical  
design  
examples and  
problems in  
each chapter.  
• Emphasize  
on  
development  
of structural  
sense needed***

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***for proper  
detailing of  
steel for  
integrated  
action in  
various parts  
of the  
structure.  
Besides  
students,  
practicing  
engineers and***

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**architects  
would find this  
text extremely  
useful.**

**Now reflecting  
the new 2008  
ACI 318-08  
Code and the  
new  
International  
Building Code  
(IBC-2006),**



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***this cutting-edge text has been extensively revised to present state-of-the-art developments in reinforced concrete. The text analyzes the design of***

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***reinforced  
concrete  
members  
through a  
unique and  
practical step-  
by-step trial  
and  
adjustment  
procedure. It  
is  
supplemented***

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***with  
flowcharts  
that guide  
readers  
logically  
through key  
features and  
underlying  
theory.  
Hundreds of  
photos of  
tests to failure***

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***of concrete  
elements help  
readers  
visualize this  
behavior. Ideal  
for practicing  
engineers who  
need to  
contend with  
the new  
revisions of  
the ACI, IBC,***

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Engineering Bcc

Design Manual

**and AASHTO  
Codes.**

***This new  
handbook fills  
the need for in-  
depth  
coverage of  
concrete  
construction  
engineering  
and  
technology. It***

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***features  
discussions on  
what design  
engineers and  
contractors  
need to know  
about  
concrete  
materials and  
systems - one  
of the most  
versatile***

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**materials  
available. The  
Concrete  
Construction  
Engineering  
Handbook  
focuses on  
these  
important  
topics:  
Conforms to  
1995 ACI**

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**Codes  
Design of  
Wind and  
Earthquake  
Resistant  
Reinforced  
Concrete  
Buildings  
Seismic  
Design of  
Reinforced  
Concrete**



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***Buildings  
Strengthening  
Design of  
Reinforced  
Concrete with  
FRP  
Limit State  
Design of  
Concrete  
Structures***

Complete coverage of  
earthquake-resistant

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concrete building design Written by a renowned seismic engineering expert, this authoritative resource discusses the theory and practice for the design and evaluation of earthquakeresisting reinforced concrete buildings. The book addresses the behavior of reinforced

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concrete materials, components, and systems subjected to routine and extreme loads, with an emphasis on response to earthquake loading. Design methods, both at a basic level as required by current building codes and at an advanced level needed for special

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problems such as seismic performance assessment, are described. Data and models useful for analyzing reinforced concrete structures as well as numerous illustrations, tables, and equations are included in this detailed reference. Seismic Design of Reinforced Concrete

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Buildings covers:

Seismic design and  
performance

verification Steel  
reinforcement

Concrete Confined  
concrete Axially  
loaded members

Moment and axial  
force Shear in beams,  
columns, and walls

Development and  
anchorage Beam-  
column connections

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Slab-column and slab-wall connections

Seismic design

overview Special

moment frames

Special structural

walls Gravity framing

Diaphragms and

collectors

Foundations

This book is intended

to give a basic

knowledge of design

of R.C.C buildings

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using Staad Pro V8i,  
to those who already  
have some  
knowledge in working  
in this software. This  
is highly useful for  
Civil Engineering  
Students who want to  
develop design skills  
in R.C.C. by using  
Staad Pro. Indian  
Code references were  
given where ever  
necessary and many

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snapshots of working example are inserted in almost every page of the book so that the reader can

understand easily.

This book is highly suitable for Indian Civil Engineers, as all the examples are in Indian Code methods.

This will greatly benefit practicing engineers and



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students in India as this is the first detailed book on R.C.C building design using Staad Pro, with Indian Examples. Static method and Dynamic method of analysis has been explained by taking the same example problem, so that the reader can understand the differences in those

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methods.

Designed primarily as

a text for

undergraduate

students of Civil

Engineering for their

first course on Limit

State Design of

Reinforced Concrete,

this compact and well-

organized text covers

all the fundamental

concepts in a highly

readable style. The

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text conforms to the provision of the latest revision of Indian Code of Practice for Plain and Reinforced Concrete, IS : 456 (2000). First six chapters deal with fundamentals of limit states design of reinforced concrete. The objective of last two chapters (including design aids

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in appendix) is to initiate the readers in practical design of concrete structures.

The text gives detailed discussion of basic concepts, behaviour of the various structural components under loads, and development of fundamental expressions for

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analysis and design. It also presents efficient and systematic procedures for solving design problems. In addition to the discussion of basis for design calculations, a large number of worked-out practical design examples based on the current design practices have been included to

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illustrate the basic principles of reinforced concrete design. Besides students, practising engineers would find this text extremely useful.

Strengthening Design of Reinforced Concrete with FRP establishes the art and science of strengthening design

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of reinforced concrete  
with fiber-reinforced  
polymer (FRP)

beyond the abstract  
nature of the design  
guidelines from

Canada (ISIS Canada  
2001), Europe (FIB  
Task Group 9.3

2001), and the United  
States (ACI

440.2R-08). Evolved  
from thorough class  
notes used to teach a

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graduate course at  
Kansas State

University, this  
comprehensive  
textbook: Addresses  
material  
characterization,  
flexural strengthening  
of beams and slabs,  
shear strengthening  
of beams, and  
confinement  
strengthening of  
columns Discusses



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the installation and inspection of FRP as externally bonded (EB) or near-surface-mounted (NSM) composite systems for concrete members. Contains shear design examples and design examples for each flexural failure mode independently, with comparisons to actual experimental

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capacity Presents  
innovative design aids  
based on ACI 440  
code provisions and  
hand calculations for  
confinement design  
interaction diagrams  
of columns Includes  
extensive end-of-  
chapter questions,  
references for further  
study, and a solutions  
manual with qualifying  
course adoption

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Delivering a detailed introduction to FRP strengthening design, Strengthening Design of Reinforced Concrete with FRP offers a depth of coverage ideal for senior-level undergraduate, master's-level, and doctoral-level graduate civil engineering courses.

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R.C.C. Designs  
(Reinforced Concrete  
Structures)

Reinforced Concrete  
Structures: Analysis  
and Design

Reinforced Concrete  
Design to Eurocode 2

Reinforced Concrete  
Design to BS 8110

Simply Explained  
Solutions Manual

This

substantially

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Design Manual  
revised second  
edition takes

into account

the provisions

of the revised

Indian Code of

practice for

Plain and

Reinforced

Concrete IS 456

: 2000. It also

provides

additional data

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on detailing of steel to make the book more useful to practicing engineers. The chapter on Limit State of Durability for Environment has been completely revised and the new provisions

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of the code  
such as those  
for design for  
shear in  
reinforced  
concrete, rules  
for shearing  
main steel in  
slabs, lateral  
steel in  
columns, and  
stirrups in  
beams have been

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explained in  
detail in the  
new edition.

This

comprehensive  
and

systematically  
organized book  
is intended for  
undergraduate  
students of  
Civil

Engineering,



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covering the first course on Reinforced Concrete Design and as a reference for the practicing engineers.

Besides covering IS 456 : 2000, the book also deals with the

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British and US  
Codes. Advanced  
topics of IS  
456 : 2000 have  
been discussed  
in the  
companion  
volume Advanced  
Reinforced  
Concrete Design  
(also published  
by Prentice-  
Hall of India).

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The two books together cover all the topics in IS 456 : 2000 and many other topics which are so important in modern methods of design of reinforced concrete.

Practical

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Design of  
Reinforced

Concrete

Buildings

Is Sp 34 :

Handbook On

Concrete

Reinforcement

And Detailing

Design for RCC

Slabs - A Ready

Reckoner

Design Theory

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Design Manual  
Fourth Edition  
Mechanics and  
Design