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This work is intended to all students of Mizan – Teppi University, Ethiopia, Engineering Campus, most especially to my students in Construction Technology and Management (COTM).

The contents of this

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stresses professional
applications, as the
Lecturer

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*Design Analysis of
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As the construction of
reinforced concrete
(RC) structures
consumed tremendous
amounts of steel
reinforcement and
concrete, RC structural

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design optimization for minimal environmental impact has attracted increasing attentions from academics and industry in recent years.

Reinforced concrete structural design optimization: A ...

A straightforward and practical introduction to the principles and methods used in the

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design of reinforced and prestressed concrete structures. The book contains many worked examples to illustrate the various aspects of design that are presented in the text.

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by Jack McCormac and

Russell Brown

introduces the
fundamentals of

reinforced concrete

design in a clear and

comprehensive manner

and grounded in the

basic principles of

mechanics of solids.

Students build on their

understanding of basic

mechanics to learn new

concepts such as

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compressive stress and strain in concrete while applying current ACI Code.

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Third Year Course
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Syllabus Instructor: Dr.
Salah R. Al-Zaidee Page

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i First Semester Part I:

Introduction to
Reinforced Concrete
Structures 1.

Introduction (1st-15th of
October) 1.1 Structural
Elements and Structural
Forms

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CONCRETE
STRUCTURES*

This structural design

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process has been carried out under use of BS8110 design code of practice. Especially, computations have been made by use of BS 8110 based spreadsheets; publication produced by the Reinforced Concrete Council (RCC) as part of its project 'Spreadsheets for concrete design to BS 8110 and EC2'.

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*STRUCTURAL DESIGN
OF a Reinforced
Concrete Tall* ...

Zhenhai Guo, in
Principles of Reinforced
Concrete, 2014. The
reinforced concrete
structure used most
widely in engineering
practice is mainly
composed of one-
dimensional members,
of which the internal

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forces on the section are singly axial force, bending moment, shear force, or torque and the composition of them.

Even the two- and three-dimensional structures are entirely or partly simplified and equivalent to a one-dimensional member.

*Reinforced Concrete
Structure - an overview*
Page 19/35

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This Manual provides guidance on the design of reinforced and

prestressed concrete building structures.

Structures designed in accordance with this Manual will normally comply with DD ENV 1992-1-1:

19921(hereinafter referred to as EC2). 1.2 Eurocode system

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building ...*

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AND
CONSTRUCTION OF
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STAIRCASES |

Ayodele Akin-Adamu -
Academia.edu This
technical material

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provides recommendations in the sizing of stair element, such as the rise, tread, maximum number of steps, minimum headroom and clearance, and the height of handrail from the pitch line of the stair.

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DESIGN, DETAILING*

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AND CONSTRUCTION

OF ...

A revised concrete code titled “Code of Practice

for Structural Use of

Concrete ... Figure 2.2 –

Simplified stress block

for ultimate reinforced

concrete design . 6

Version 2.3 May 2008

comparatively larger

than the “elastic” one

prior to failure. Such

ability is

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Detailings of Reinforced
Concrete to ...*

Reinforced cement
concrete Design
philosophy & concepts
of RCC Design Strength
design method. It is
based on the ultimate
strength of the structural
members assuming a
failure condition,...
Working stress design.

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This design concept is based on elastic theory, assuming a straight line stress ...

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...

Strut-and-tie modelling is a simple method of modelling complex stress patterns in reinforced concrete as

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triangulated models. It is based on the same truss analogy as the design for shear in Eurocode 2 and can be applied to many elements.

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- The Institution of
Structural ...*

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Detailing of Reinforced
Concrete to the

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September 2013 Code
of Practice for Structural
Use of Concrete 2013
2.0 Some Highlighted
Aspects in Basis of
Design 2.1 Ultimate and
Serviceability Limit
states The ultimate and
serviceability limit
states used in the Code
carry the normal
meaning as in other
codes such as BS8110.

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Design of reinforced concrete structures is an introductory design course in civil engineering. In this course, basic elements governed by bending, shear, axial forces or combination of them are identified and are considered as building

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blocks of the whole
structure.

*Design of Reinforced
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Course*

GSE STRUCTURAL
CONCRETE DESIGN.

Part of the G SE
(General Structural
Engineering) software,
GSE CONCRETE
DESIGN allows the
design of concrete

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members subjected to a linear, P-Delta, non-linear, seismic or dynamic analysis. •

Second order effects may be accounted for according to the simplified method of the design codes.

*CONCRETE SLAB
STRUCTURAL DESIGN
SOFTWARE - SAFI*

SkyCiv Reinforced

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Concrete Integrated

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column design for a

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codes. Run and optimize

the concrete section

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calculations for deeper investigation.

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The design of reinforced concrete structures is an introductory design course in civil engineering. In this course, basic elements governed by bending, shear, axial forces, or

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combination of them are identified and are considered as building blocks of the whole structure. Different methods of design will be briefly described before introducing the limit states of collapse and serviceability.

*Basic Design of
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Here in the design of concrete building, we choose concrete as the material for beams, columns and slabs. The walls can either be of masonry or concrete (shear wall) depending on the loads coming on the building. However other materials like steel and aluminum are also used in the construction.

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