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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

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of this stresses professional applications,  
as the Lecturer

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As the construction of reinforced concrete  
(RC) structures consumed tremendous  
amounts of steel reinforcement and

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

*Reinforced concrete structural design  
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A straightforward and practical introduction to the principles and methods used in the 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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Edition 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.

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Students build on their understanding of basic mechanics to learn new concepts such as compressive stress and strain in concrete while applying current ACI Code.

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Design of Reinforced Concrete Structures  
Third Year Course (Junior Course)

Syllabus Instructor: Dr. Salah R. Al-  
Zaidee Page 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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This structural design 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



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Reinforced Concrete Council (RCC) as part of its project 'Spreadsheets for concrete design to BS 8110 and EC2'.

*STRUCTURAL DESIGN OF a Reinforced concrete Residential ...*

Zhenhai Guo, in Principles of Reinforced Concrete, 2014. The reinforced concrete

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structure used most widely in engineering practice is mainly composed of one-dimensional members, of which the internal 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

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and equivalent to a one-dimensional  
member.

*Reinforced Concrete Structure - an  
overview ...*

This Manual provides guidance on the  
design of reinforced and prestressed  
concrete building structures. Structures

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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

*Manual for the design of reinforced concrete building ...*

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## REINFORCED AND CONSTRUCTION OF REINFORCED CONCRETE

STAIRCASES | Ayodele Akin-Adamu -

Academia.edu This technical material 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

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handrail from the pitch line of the stair.

## Buildings

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...

A revised concrete code titled “Code of  
Practice for Structural Use of Concrete ...

Figure 2.2 – Simplified stress block for

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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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Reinforced Concrete to ...*

Reinforced cement concrete Design

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

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*Concrete Design Guide - The Institution of  
Structural ...*

Manual for Design and Detailing of  
Reinforced Concrete to the September  
2013 Code of Practice for Structural Use  
of Concrete 2013 2.0 Some Highlighted

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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.

*Manual for Design and Detailing of*

*Page 27/35*

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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 blocks of the whole structure.

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GSE STRUCTURAL CONCRETE  
DESIGN. Part of the G SE (General  
Structural Engineering) software, GSE  
CONCRETE DESIGN allows the design  
of concrete members subjected to a linear,

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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 Concrete Integrated

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seamlessly with Structural 3D, the RC Design module supports concrete beam and column design for a variety of building codes. Run and optimize the concrete section designs calculations on your entire 3D structure in just a few clicks. Take advantage of detailed hand 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 combination of them are



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Reinforced 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.

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Reinforced Concrete Tall Buildings  
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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