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 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
 DESIGN OF REINFORCED CONCRETE STRUCTURE
 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 Reinforced Concrete Council (RCC) as part of its project 'Spreadsheets for concrete design to BS 8110 and EC2'.
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 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 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.
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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: 1992 (hereinafter referred to as EC2).
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