This book has been written to assist students of civil and environmental engineering in the
design of reinforced concrete elements. The content covers the theory and good design
practice with worked examples and carefully selected exercises. The worked examples
include beam, solid slab, column, staircases, foundation and retaining walls. Students will
find the content of this book relevant, practical and current. Design examples in this book
are based on the limit state concept in accordance with BS8110 “The Structural Use of
Concrete”. The examples have been prepared in SI units. For the effective use of this book,
it is necessary to make cross-references with the code of practice. In some cases,
alternative methods are introduced so that the students are trained to understand the
first principle and are not too reliant upon the use of design tables and charts. The
detachable portion for assignments is to enable submission to be made in a professional
manner with minimum hassle. It is hoped that the students will enjoy the learning process
and strive to explore better ways to solve structural design problems.

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