

## Design of Concrete Structures



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### ***Reviews***

*I actually started out reading this book. It can be packed with wisdom and knowledge I discovered this ebook from my dad and i suggested this book to understand.*  
**(Prof. Barney Harris)**

## DESIGN OF CONCRETE STRUCTURES



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PHI Learning, 2008. Softcover. Book Condition: New. First edition. This text primarily analyses different 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 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 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 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 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 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 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 professional engineers. CONTENTS: Preface Acknowledgements 1. Objectives and Methods of Analysis and Design 2. Properties of Concrete and Steel 3. Philosophies of Design by Limit State Method 4. Limit State of Collapse: Flexure (Theory and Problems) 5. Doubly Reinforced Beams: Theory and Problems 6. Flanged Beams: Theory and Numerical Problems 7. Limit State of Collapse in Shear: Theory and Numerical Problems 8. Bond, Anchorage, Development Length and Torsion 9. Limit State of Serviceability 10. Reinforced Concrete Slabs 11. Staircases 12. Compression Members 13. Foundations: Theory and Design 14. Yield Line Analysis...



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