

Reinforced Concrete Design 5th Edition Mosley

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Design of Reinforced Concrete 10th 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. 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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This established textbook sets out the principles of limit state design and of its application to reinforced and prestressed concrete members and structures. It will appeal both to students and design engineers. The fourth edition incorporates information on the recently introduced British Standard Code of practice for water retaining structures BS8007. The authors have also taken the opportunity of making minor revisions, generally based on the recommendations of BS8110.

Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318-11 code.

Now updated to reflect the latest ACI 318-05 Building Code, this cutting-edge book analyzes the design of reinforced concrete members through a unique and practical step-by-step trial and adjustment procedure. Supplements narrative with flow charts to guide readers logically through the learning process. Provides ample photographs of instructional testing of concrete members to decrease the need for actual laboratory testing. Uses Strain Limits Design Method in all design examples as mandated in the new code, using the new load factors and strength reduction factors. Updates chapter on seismic design of buildings to comply with the major changes to the ACI 318 Code and the new International Building Code provisions on seismic design. Adds chapter on the LRFD design of bridge deck structures in accordance with AASHTP 2002, including a summary of the various pertinent load and design provisions and equations. Offers an expanded section on the strut-and-tie modeling for the design of reinforced concrete deep beams. A useful construction reference for engineers.

The best-selling Reinforced Concrete Design provides 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. The seventh edition of the text has been fully revised and updated to reflect the interpretation and use of Eurocode 2 since its introduction. Students and practitioners, both in the UK and elsewhere in the world where Eurocode 2 has been adopted, will find it a concise guide both to the basic theory and to appropriate design procedures. Design charts, tables and formulae are included as design aids and, for ease of reference, an appendix contains a summary of important design information. Features of the seventh edition are: • Completely revised to reflect recent experience of the usage of Eurocode 2 since its introduction in 2004 and its adoption in the UK as a design standard in 2010 • Further examples of the theory put into practice • A new chapter on water retaining structures in accordance with Eurocode 2, Part 3 • New sections on, for example, design processes including conceptual design, deep beams and an expanded treatment of designing for fire resistance

The Reinforced Masonry Engineering Handbook provides the coefficients, tables, charts, and design data required for the design of reinforced masonry structures. This edition improves and expands upon previous editions, complying with the current Uniform Building Code and paralleling the growth of reinforced masonry engineering. Discussions include: materials strength of masonry assemblies loads lateral forces reinforcing steel movement joints waterproofing masonry structures and products formulas for reinforced masonry design retaining walls and more This comprehensive, useful book serves as an exceptional resource for designers, contractors, builders, and civil engineers involved in reinforced masonry - eliminating repetitious and routine calculations as well as reducing the time for masonry design.

The sixth edition of this comprehensive textbook provides the same philosophical approach that has gained wide acceptance since the first edition was published in 1965. The strength and behavior of concrete elements are treated with the primary objective of explaining and justifying the rules and formulas of the ACI Building Code. The treatment is incorporated into the chapters in such a way that the reader may study the concepts in a logical sequence in detail or merely accept a qualitative explanation and proceed directly to the design process using the ACI Code.

This established and popular textbook has now been extensively rewritten and expanded in line with the current Eurocodes. It presents the principles of the design of concrete elements and also the design of complete structures, and provides practical illustrations of the theory. It explains the background to the Eurocode rules and goes beyond the c

the undergraduate course in structural steel design using the Load and Resistance Factor Design Method (LRFD). The text also enables practicing engineers who have been trained to use the Allowable Stress Design procedure (ASD) to change easily to this more economical and realistic method for proportioning steel structures. The book comes with problem-solving software tied to chapter exercises which allows student to specify parameters for particular problems and have the computer assist them. On-screen information about how to use the software and the significance of various problem parameters is featured. The second edition reflects the revised steel specifications (LRFD) of the American Institute of Steel Construction.