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James K. Wight, James G. MacGregor Reinforced Concrete Mechanics and Design, 6th Edition Prentice Hall (2011)

James K. Wight, James G. MacGregor Reinforced Concrete ...

Description. Reinforced concrete design encompasses both the art and science of engineering. This book presents the theory of reinforced concrete as a direct application of the laws of statics and mechanics of materials. In addition, it emphasizes that a successful design not only satisfies design rules, but also is capable of being built in a timely fashion and for a reasonable cost.

Wight & MacGregor, Reinforced Concrete: Mechanics and ...

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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.

Design of Reinforced Concrete 10th Edition PDF Free ...

Fifth Edition. James K. Wight • James G. MacGregor. A multi-tiered approach makes Reinforced Concrete: Mechanics and Design an outstanding textbook for a variety of courses on reinforced concrete design. This new edition has been updated so all chapters are in compliance with the 2008 edition of the ACI Building Code.

This book explains the theory and practice of reinforced concrete design in a systematic and clear fashion with an abundance of step-by-step worked examples, illustrations, and photographs. The focus is on preparing readers to make the many judgment decisions required in reinforced concrete design, and reflects the author's extensive experience and expertise as both a teacher of reinforced concrete design and as a member of various code committees. For anyone interested in concrete structures and the design of reinforced concrete.

The theory of reinforced concrete design is presented as a direct application of the laws of statics and behavior of reinforced concrete. This book emphasizes that a successful design must not only satisfy the design equations, but practical construction aspects as well. Covering basic undergraduate level concepts and more advanced topics, this book includes detailed treatments of flexure, shear, development and columns at a level suitable for undergraduate use, as well as the more difficult areas of strain compatibility solutions of beams, P-(Delta) analyses of frames, strut-and-tie models, and design for earthquake resistance. The numerous examples are all worked out completely, step-by-step.

This definitive reference volume provides a comprehensive guide to the analysis and design of bridge structures worldwide. The in-depth consideration given to the major analytical, numerical and design issues associated with prototype structures will reduce the effort and expense involved in future construction. The book contains numerous analytical and design examples drawn from existing structures worldwide as well as an extensive bibliography and a large appendix which covers background analyses and computer subroutines.

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.

Reinforced Concrete Design: A Practical Approach, 2E is the only Canadian textbook which covers the design of reinforced concrete structural members in accordance with the CSA Standard A23.3-04 Design of Concrete Structures, including its 2005, 2007, and 2009 amendments, and the National Building Code of Canada 2010. Reinforced Concrete Design: A Practical Approach covers key topics for curriculum of undergraduate reinforced concrete design courses, and it is a useful learning resource for the students and a practical reference for design engineers. Since its original release in 2005 the book has been well received by readers from Canadian universities, colleges, and design offices. The authors have been commended for a simple and practical approach to the subject by students and course instructors. The book contains numerous design examples solved in a step-by-step format. The second edition is going to be available exclusively in hard cover version, and colours have been used to embellish the content and illustrations. This edition contains a new chapter on the design of two-way slabs and numerous revisions of the original manuscript. Design of two-way slabs is a challenging topic for engineering students and young engineers. The authors have made an effort to give a practical design perspective to this topic, and have focused on analysis and design approaches that are widely used in structural engineering practice. The topics include design of two-way slabs for flexure, shear, and deflection control. Comprehensive revisions were made to Chapter 4 to reflect the changes contained in the 2009 amendment to CSA A23.3-04. Chapters 6 and 7 have been revised to correct an oversight related to the transverse reinforcement spacing requirements in the previous edition of the book. Chapter 8 includes a new design example on slender columns and a few additional problems. Several errors and omissions (both text and illustrations) have also been corrected. More than 300 pages of the original book have been revised in this edition. Several supplements are included on the book web site. Readers will get time-limited access to the new column design software BPA COLUMN, which can generate column interaction diagrams for rectangular and circular columns of variable dimensions and reinforcement amount. Additional supplements include spreadsheets related to foundation design and column load take down, and a few Power Point presentations showcasing reinforced concrete structures under construction and in completed form. Instructors will have an access to additional web site, which contains electronic version of the Instructor's Solution Manual with complete solutions to the end-of-chapter problems, and Power Point presentations containing all illustrations from the book. The book is a collaborative effort between an academic and a practising engineer and reflects their unique perspectives on the subject. Svetlana Brzev, Ph.D., P.Eng. is a faculty at the Civil Engineering Department of the British Columbia Institute of Technology, Burnaby, BC. She has over 25 years of combined teaching, research, and consulting experience related to structural design and rehabilitation of concrete and masonry structures, including buildings, municipal, and industrial facilities. John Pao, MEng, PEng, Struct.Eng, is the President of Bogdonov Pao Associates Ltd. of Vancouver, BC, and BPA Group of Companies with offices in Seattle and Los Angeles. Mr. Pao has extensive consulting experience related to design of reinforced concrete buildings, including high-rise residential and office buildings, shopping centers, parking garages, and institutional buildings.

Concrete repair continues to be a subject of major interest to engineers and technologists worldwide. The concrete repair budget for the UK alone currently runs at some UKP 220 per annum. Some estimates have indicated that, worldwide, in 2010 the expenditure for maintenance and repair work will represent about 85% of the total expenditure in the co

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.

For courses in architecture and civil engineering. Reinforced Concrete: Mechanics and Design uses the theory of reinforced concrete design to teach students the basic scientific and artistic principles of civil engineering. The text takes a topic often introduced at the advanced level and makes it accessible to all audiences by building a foundation with core engineering concepts. The Seventh Edition is up-to-date with the latest Building Code for Structural Concrete, giving students access to accurate information that can be applied outside of the classroom. Students are able to apply complicated engineering concepts to real world scenarios with in-text examples and practice problems in each chapter. With explanatory features throughout, the Seventh Edition makes the reinforced concrete design a theory all engineers can learn from.

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