

INTERNATIONAL EDITION

DESIGN of CONCRETE STRUCTURES

THIRTEENTH EDITION

ARTHUR H. NILSON · DAVID DARWIN · CHARLES W. DOGAN

STRUCTURAL CONCRETE

Theory and Design

THIRD EDITION

M. Nadim Hassoun | Akthem Al-Manaseer

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Lei Huang



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Design of Slabs-on-ground ACI Committee 360, American Concrete Institute, 2006 *ACI Manual of Concrete Practice* American Concrete Institute, 2002 **Scientific and Technical Books and Serials in Print**, 1984 **Design of Reinforced Concrete** Jack C. McCormac, Russell H. Brown, 2015-09-15 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 **The Cumulative Book Index**, 1979 A world list of books in the English language **ACI Structural Journal**, 1988 *Concrete International*, 1984 *Books in Print Supplement*, 1978 **Books in Print**, 1991 **Journal of the American Concrete Institute** American Concrete Institute, 1984 Each number includes Synopsis of recent articles *The Publishers' Trade List Annual*, 1977 **The Shock and Vibration Digest**, 2002 *Design of Concrete Structures* Arthur H. Nilson, David Darwin, Charles William Dolan, 2003 1 Introduction 2 Materials 3 Flexural Analysis and Design of Beams 4 Shear and Diagonal Tension in Beams 5 Bond Anchorage and Developmental Length 6 Serviceability 7 Analysis and Design for Torsion 8 Short Columns 9 Slender Columns 10 Strut and Tie Models 11 Design of Reinforcement at Joints 12 Analysis of Indeterminate Beams and Frames 13 Analysis and Design of Slabs 14 Yield Line Analysis for Slabs 15 Strip Method for Slabs 16 Footings and Foundations 17 Retaining Walls 18 Concrete Building Systems 19 Prestressed Concrete 20 Seismic Design Appendix A Design Aids Appendix B SI Conversion Factors Inch Pound Units to SI Unites *The Software Encyclopedia*, 1988 *Reinforced Concrete Fundamentals* Phil M. Ferguson, John E. Breen, James O. Jirsa, 1991-01-16 This Fifth Edition maintains the basic Ferguson approach in which design procedures stem from and provide the basis for a clear understanding of the behavior of reinforced concrete Behavior of reinforced concrete members and assemblages at every load stage is illustrated with illustrations and photos and calculation models that relate to the physical behaviors are provided to help students and practitioners recognize and assess various design situations To avoid confusion many of the examples now use customary or English units rather than SI units as in the Fourth Edition This edition conforms to the technical changes in the 83 and 86 revisions to the ACI Building Code In this edition service load analysis of stresses computations of deflection and distribution of reinforcement to control crack widths have been incorporated with the sections that treat analysis and design of flexural members Material relating to seismic design has been revised and expanded and more emphasis has been placed on developing conceptual models for design **Government Reports Annual Index**, 1978 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z *Reinforced Concrete Design* William Henry Mosley, J. H. Bungey, R. Hulse, 1999 This work provides a straightforward

introduction to the principles and methods of design for concrete structures It is directed primarily at students and young designers who require understanding of the basic theory and a concise guide to design procedures The theory and practice described in the book are of a fundamental nature and will be of use internationally Limit state concepts are used and the calculations are in SI units throughout The principal aim of the fifth edition has been to update the text to incorporate changes and amendments introduced in the 1997 version of BS8110 and to include new material such as pile cap design A complete new chapter on composite construction has been introduced Important equations that have been derived within the text are highlighted by an asterix adjacent to the equation number

Reinforced Concrete Design Svetlana Brzev, John Pao, 2006 This book covers the design of main reinforced concrete structural members in accordance with the limit states design method and is based on the new CSA Standard A23.3-04 Design of Concrete Structures The load provisions are consistent with the new National Building Code of Canada 2005 The material in this book is presented in the logical order in which a structural design would be performed in practice The topics are covered at different levels of complexity The book takes a non calculus based practical approach to the analysis and design of reinforced concrete members rather than a rigorous theoretical approach Modern analysis and design procedures consistent with design practice have been used The book contains many numerical examples solved in a step by step format Metric SI units have been mostly used throughout the book This book also contains a bonus CD ROM which includes computer spreadsheets for column and foundation design as well as four Power Point presentations featuring outstanding reinforced concrete structures around the world under construction and in completed form

Reinforced Concrete Structures: Analysis and Design, Second Edition David Fanella, 2015-09-16 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A fully revised guide to the design and analysis of reinforced concrete structures according to the 2014 edition of ACI 318 This practical resource offers concise explanations of reinforced concrete design principles and teaches safe and cost effective engineering and construction techniques Reinforced Concrete Structures Analysis and Design Second Edition has been thoroughly updated to reflect the latest requirements in both the 2014 ACI 318 structural concrete code and the 2015 International Building Code Examples procedures and flowcharts illustrate compliance with each provision This comprehensive guide features new in depth coverage of ACI earthquake design requirements SI units are now included throughout all of the chapters Reinforced Concrete Structures Analysis and Design Second Edition covers Material properties of concrete and reinforcing steel

Simplified Design of Concrete Structures James E. Ambrose, Patrick Tripeny, 2007-01-22 Updated to reflect changes in standards and technology this book covers the basics of concrete design structures before moving on to practical design examples Organised for self study the book includes exercise problems and answers

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