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Design of Concrete Structures covers the behavior and design aspects of concrete and provides updated examples and homework problems. New material on slender columns, seismic design, anchorage using headed deformed bars, and reinforcing slabs for shear using headed studs has been added.

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Using the 2002 ACI Code, this text covers the behavior and design aspects of concrete and provides examples and homework problems. It covers strut-and-tie models, and presents the basic mechanics of structural concrete and methods for the design of individual members for bending, shear, torsion, and axial force.

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Design of Concrete Structures has been completely revised using the newly released 2014 American Concrete Institute (ACI) Building Code. This new edition has the same dual objectives as the previous editions: first to establish a firm understanding of the behavior of structural concrete, then to develop proficiency in the methods used in current design practice.

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Design of Concrete Structures, 15th Edition by David Darwin and Charles Dolan and Arthur Nilson (9780073397948) Preview the textbook, purchase or get a FREE instructor-only desk copy.

Design of Concrete Structures - McGraw Hill

Design of Concrete Structures by Arthur H. Nilson At the end there are appendix containing Design Aids, formulas some charts for calculation help. The "Design of Concrete Structures by Nilson" follows the updated provisions of 2002 American Concrete Institute (ACI) Building Code.

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Design of concrete structures / David Darwin, Deane E. Ackers Distinguished Professor and chair of Civil, Environmental & Architectural Engineering, University of Kansas, Charles W. Dolan, H.T. Person Professor of Engineering, emeritus, University of Wyoming, Arthur H. Nilson, late professor of structural engineering, Cornell University.—Fifteenth edition. pages cm Primary author of previous edition: Arthur H. Nilson.

Design of Concrete Structures | David Darwin, Charles W ...

Editions for Design of Concrete Structures: 0072483059 (Hardcover published in 2003), 0070598541 (), 0073293490 (Hardcover published in 2009), 0072921994...

Editions of Design of Concrete Structures by Arthur H. Nilson

A 16 × 20 in. column is made of the same concrete and reinforced with the same six No. 9 (No. 29) bars as the column in Examples 1.1 and 1.2, except that a steel with yield strength $f_y = 40$ ksi is used. The stress-strain diagram of this reinforcing steel is shown in Figure for $f_y = 40$ ksi. For this column determine (a) the axial load that will stress the concrete to 1200 psi; (b) the load ...

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Preface: The fourteenth edition of Design of Concrete Structures has the same dual objectives as the previous work: first to establish a firm understanding of the behavior of structural concrete, then to develop proficiency in the methods used in current design practice. It has been updated in accordance with the provisions of the 2008 American Concrete Institute (ACI) Building Code.

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@inproceedings{Nilson1978DesignOC, title={Design of concrete structures}, author={A. H. Nilson and David Darwin and C. W. Dolan}, year={1978} } 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 ...

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Design of Concrete Structures : Arthur H. Nilson ...

"Design of Concrete Structures" covers the behavior and design aspects of concrete, and provides thoroughly updated examples and homework problems throughout. The 13th edition also features a new chapter, Chapter 10, covering strut-and-tie models.

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