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ACI 318-19 Building Code Requirements for Structural Concrete (ACI 318-19) and Commentary (ACI 318R-19) ACI Committee 318,2019-05

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Artificial Neural Network-based Optimized Design of Reinforced Concrete Structures Won-Kee Hong, 2023-01-11 Artificial Neural Network-based Optimized Design of Reinforced Concrete Structures introduces AI-based Lagrange optimization techniques that can enable more rational engineering decisions for concrete structures while conforming to codes of practice. It shows how objective functions including cost, CO2 emissions, and structural weight of concrete structures are optimized either separately or simultaneously while satisfying constraining design conditions using an ANN-based Lagrange algorithm. Any design target can be adopted as an objective function. Many optimized design examples are verified by both conventional structural calculations and big datasets. Uniquely applies the new powerful tools of AI to concrete structural design and optimization Multi-objective functions of concrete structures optimized either separately or simultaneously Design requirements imposed by codes are automatically satisfied by constraining conditions Heavily illustrated in color with practical design examples The book suits undergraduate and graduate students who have an understanding of collegelevel calculus and will be especially beneficial to engineers and contractors who seek to optimize concrete structures.

Handbook of Precast Segmental Tunnel Lining Systems Verya Nasri, David Klug, Brian Fulcher, James A. Morrison, 2024-07-31 This comprehensive handbook covers all aspects of design, production, and construction of precast concrete tunnel segmental lining, with the best practices in the field included in one book for the first time. New and current

design methods and quantitative analyses are considered in line with ACI and ASTM codes, as well as a full selection of global standards for the reliable design of the product and all components. Also incorporated are new applications of science and technology, such as new admixtures, and the latest manufacturing processes and precisions, such as tight dimensional controls and high repeatability cycles. With detailed guidance from world-leading practitioners, this is the definitive international technical and practical manual on these linings, forming a one-stop reference for tunnel engineers and an invaluable resource for advanced students in civil, mechanical, and mining engineering.

Evaluating and Improving the ACI 318-19 Shear Strength Relationships for Seismic Design of Reinforced Concrete Columns Alex-Amirnezam Fakhroo, 2022 The ACI 318-19 provisions for computing the one-way shear capacity of non-prestressed reinforced concrete (RC) columns are primarily based on the results obtained from the RC beams. These equations were introduced in ACI 318-19 to account for the effects of the longitudinal reinforcement ratio, the depth of the column, and the applied axial load on the overall shear capacity. In this study, a column database was developed and used to evaluate the accuracy of the one-way shear provisions. Then, the ACI 318-19 shear capacity equations were evaluated by using the test results for non-prestressed RC columns. The results showed that these relationships significantly underpredict the actual shear capacity of the columns obtained from the test results. To improve the accuracy of the shear capacity equations, a new relationship is proposed and discussed in detail.

Post-Tensioning in Building Construction Bijan O. Aalami,2023-05-09 Worldwide growth and application of post-tensioning in recent years is one of the major developments in building construction. The growth is propelled by a burgeoning demand for construction of serviceable and safe buildings. Unlike traditional construction, post-tensioning is based on new design methodology often not covered in traditional engineering courses. With more than 40 years of experience of study, teaching and work on post-tensioning applications around the world, the author has written this book for students as well as practicing engineers, contractors and academics. While the book covers the basics and concepts of post-tensioning in simple and clear language, it also focuses on the application and detailed design through real world examples. Topics of the book include the European and the American building Codes for post-tensioning design. The codes are detailed in the book's examples such as column-supported floors and beam frames. The book explains and highlights the importance of shortening specific to post-tensioned members and construction detailing for serviceable and safe performance.

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Table of Contents Aci 318 19

- 1. Understanding the eBook Aci 318 19
 - The Rise of Digital Reading Aci 318 19
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Aci 318 19
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aci 318 19
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Aci 318 19
 - Personalized Recommendations
 - Aci 318 19 User Reviews and Ratings
 - Aci 318 19 and Bestseller Lists
- 5. Accessing Aci 318 19 Free and Paid eBooks
 - Aci 318 19 Public Domain eBooks
 - ∘ Aci 318 19 eBook Subscription Services
 - Aci 318 19 Budget-Friendly Options
- 6. Navigating Aci 318 19 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Aci 318 19 Compatibility with Devices
 - ∘ Aci 318 19 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aci 318 19
 - Highlighting and Note-Taking Aci 318 19
 - ∘ Interactive Elements Aci 318 19
- 8. Staying Engaged with Aci 318 19

- Joining Online Reading Communities
- o Participating in Virtual Book Clubs
- Following Authors and Publishers Aci 318 19
- 9. Balancing eBooks and Physical Books Aci 318 19
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aci 318 19
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aci 318 19
 - Setting Reading Goals Aci 318 19
 - $\circ\,$ Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aci 318 19
 - Fact-Checking eBook Content of Aci 318 19
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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