



# Shear Behavior Of Circular Concrete Members Reinforced

**AW Chickering**



## **Shear Behavior Of Circular Concrete Members Reinforced:**

Shear Strength and Behavior of Circular Concrete Members Reinforced with FRP Bars and Spirals Ahmed Mohammed Hassan Ali, 2016      **Behavior of Circular Concrete Columns Reinforced with FRP Bars and Stirrups** Mohammad Afifi, 2013

The behavior of concrete members reinforced with fiber reinforced polymer FRP bars has been the focus of many studies in recent years. Nowadays several codes and design guidelines are available for the design of concrete structures reinforced with FRP bars under flexural and shear loads. Meanwhile limited research work has been conducted to examine the axial behavior of reinforced concrete RC columns with FRP bars. Due to a lack of research investigating the axial behavior of FRP reinforced concrete columns, North American codes and design guidelines do not recommend using FRP bars as longitudinal reinforcement in columns to resist compressive stresses. This dissertation aims at evaluating the axial performance of RC compression members reinforced with glass FRP (GFRP) and carbon FRP (CFRP) bars and stirrups through experimental and analytical investigations. A total of twenty seven full scale circular RC specimens were fabricated and tested experimentally under concentric axial load. The 300 mm diameter columns were designed according to CAN CSA S806 12 code requirements. The specimens were divided to three series: series I contains three reference columns: one plain concrete and 2 specimens reinforced with steel reinforcement. Series II contains 12 specimens internally reinforced with GFRP longitudinal bars and transverse GFRP stirrups while series III includes specimens totally reinforced with CFRP reinforcement. The experimental tests were performed at the structural laboratory, Faculty of Engineering, University of Sherbrooke. The main objective of testing these specimens is to investigate the behavior of circular concrete columns reinforced with GFRP or CFRP longitudinal bars and transverse hoops or spirals reinforcement. Several parameters have been studied: type of reinforcement, longitudinal reinforcement ratio, the volumetric ratios, diameters and spacing of spiral reinforcement, confinement configuration, spirals versus hoops, and lap length of hoops. The test results of the tested columns were presented and discussed in terms of axial load capacity, mode of failure, concrete longitudinal and transverse strains, ductility, load stress-strain response, and concrete confinement strength. Through four journal papers presented in this dissertation, based on the findings of experimental investigation, the GFRP and CFRP RC columns behaved similar to the columns reinforced with steel. It was found that FRP bars were effective in resisting compression until after crushing of concrete and contributed on average 8% and 13% of column capacity for GFRP and CFRP RC specimens respectively. Also, the use of GFRP and CFRP spirals or hoops according to the provisions of CSA S806 12 yielded sufficient restraint against the buckling of the longitudinal FRP bars and provided good confinement of the concrete core in the post-peak stages. The axial deformability, ductility, and confinement efficiency can be better improved by using small FRP spirals with closer spacing rather than larger diameters with greater spacing. It was found that ignoring the contribution of FRP longitudinal bars in the CAN CSA S806 12 design equation underestimated the maximum capacity of the tested specimens. Based on this finding, the

design equation is modified to accurately predict the ultimate load capacities of FRP RC columns. New factors  $\alpha_{inf}$  and  $\alpha_{c}$  were introduced in the modified equation to account for the GFRP and CFRP bars compressive strength properties as a function of their ultimate tensile strength. On the other hand, proposed equations and confinement model were presented to predict the axial stress-strain behavior of FRP RC columns confined by FRP spirals or hoops. The model takes into account the effect of many parameters such as type of reinforcement, longitudinal reinforcement ratio, transverse reinforcement configuration, and the volumetric ratio. The proposed model can be used to evaluate the confining pressure, confined concrete core stress, corresponding concrete strain, and stress-strain relationship. The results of analysis using the proposed confinement model were compared with experimental database of twenty-four full-scale circular FRP RC columns. A good agreement has been obtained between the analytical and experimental results. Proposed equations to predict both strength and stress-strain behavior of confined columns by FRP reinforcements demonstrate good correlation with test data obtained from full-scale specimens.

Proceedings of the Canadian Society for Civil Engineering Annual Conference 2023, Volume 12 Serge Desjardins, Gérard J. Poitras, Ashraf El Damatty, Ahmed Elshaer, 2024-12-12. This book comprises the proceedings of the Annual Conference of the Canadian Society for Civil Engineering 2023. The contents of this volume focus on the specialty track in structural engineering with topics on bridge design, FRP concrete structures, innovation in structural engineering, seismic analysis and design, wind load on structures, masonry structures, structural optimization, machine learning, and AI in structural engineering, and wood and timber structures, among others. This volume will prove a valuable resource for researchers and professionals.

**The Shear Response of Circular Concrete Columns Reinforced with High Strength Steel Spirals** Young Joon Kim, 2000. This report describes an experimental investigation in which the shear strength and shear behaviour of circular concrete members reinforced with seven-wire high strength transverse strand spirals compare to the strength and behaviour of members reinforced with regular deformed bar spirals. Six large-scale specimens were loaded monotonically in shear. Two of the specimens were subjected to shear reversals after passing their peak monotonic shear capacities. The prime variables were the amount and the yield strength of the transverse reinforcement, which was either 1728 MPa for the specimens reinforced with seven-wire strands or 445 MPa for the specimens reinforced with reinforcing bars. The experimental results from the six specimens indicated that three analytical models (AASHTO LFRD Response2000, TRIX97 based on the Modified Compression Field Theory, MCFT) predicted the behaviour of the specimens reasonably well, with both the predicted shear strengths and the predicted deformations agreeing well with the actual test results. TRIX97 had a coefficient of variation of 6.3%, Response 2000 has a coefficient of variation of 10.4%, while AASHTO has a coefficient of variation of 11.9%.

*Proceedings of the International Conferences on Digital Technology Driven Engineering 2024* Nikos D. Lagaros, Rajai Z. Alrousan, Khairidin M. Abdalla, Marios C. Phocas, Giuseppe Carlo Marano, 2025-07-22. This book gathers the latest advances, innovations, and applications in the field of engineering.

optimization presented at the 2nd Engineering and Applied Sciences Optimization OPT ii and held in Amman Jordan on October 14 2024 jointly with conferences OPTARCH2024 and ADDOPTML2024 It covers topics such as shape and topology optimization structural optimization optimization in micro and nano mechanics lifecycle design optimization and structural health monitoring multidisciplinary and multiphysics design optimization multiple criteria decision making and optimization Written by leading researchers and engineers and selected by means of a rigorous international peer review process the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations

**Design of Concrete Structures Using High-strength Steel Reinforcement** Bahram M.

Shahrooz,2011 TRB s National Cooperative Highway Research Program NCHRP Report 679 Design of Concrete Structures Using High Strength Steel Reinforcement evaluates the existing American Association of State Highway and Transportation Officials AASHTO Load and Resistance Factor Design LRFD Bridge Design Specifications relevant to the use of high strength reinforcing steel and other grades of reinforcing steel having no discernible yield plateau The report also includes recommended language to the AASHTO LRFD Bridge Design Specifications that will permit the use of high strength reinforcing steel with specified yield strengths not greater than 100 ksi The Appendixes to NCHRP Report 679 were published online

*ADVANCES IN MECHANICS AND MATERIALS* Sanjaya Kumar Patro,Amar Nath Nayak,Ramakanta Panigrahi,2016-12-09 Veer Surendra Sai University of Technology VSSUT Burla is one among the foremost universities of India in the field of higher education basic and applied research The foundation of this iconic college was laid in 1956 to cater the maintenance and upkeep of the mighty Hirakud Dam worlds longest earth dam at Burla The university now has sixteen academic departments ion various disciplines in engineering and sciences The International Conference on Advances in Mechanics and Materials ICRAMM 2016 was organized at the Veer Surendra Sai University of Technology Burla Odisha during 17 18 December 2016 Over the years tremendous progress has been made in the fields related to mechanics and materials due to rapid advancements in analytical experimental and computational facilities The outcome has immensely benefited the industries research and academic organizations in numerous ways The International Conference on Recent Advances in Mechanics and Materials ICRAMM 2016 will provide a common platform for academicians engineers scientists and technologists to come together and discuss the progress made on various aspects of mechanics and materials Realizing the importance of recent developments in the areas of recent advances in mechanics and materials the conference ICRAMM 2016 focuses on following major themes Computational mechanics Experimental mechanics Fluid mechanics Geomechanics Structural mechanics Continuum mechanics Coupled field problems Structural and Soil Dynamics Vibration Control Structural Health Monitoring Rehabilitation and Retrofitting of structures Composite Materials Cement Concrete Composites and Sustainable construction materials The papers included in this conference proceeding reflect in general the need for emerging technologies and growing interest in structural mechanics and materials to tailor it to meet the requirements for

the varying application *Modern Mechanics and Applications* Nguyen Tien Khiem, Tran Van Lien, Nguyen Xuan Hung, 2021-09-06 This proceedings book includes a selection of refereed papers presented at the International Conference on Modern Mechanics and Applications ICOMMA 2020 which took place in Ho Chi Minh City Vietnam on December 24 2020 The contributions highlight recent trends and applications in modern mechanics Subjects covered include biological systems damage fracture and failure flow problems multiscale multi physics problems composites and hybrid structures optimization and inverse problems lightweight structures mechatronics dynamics numerical methods and intelligent computing additive manufacturing natural hazards modeling The book is intended for academics including graduate students and experienced researchers interested in recent trends in modern mechanics and application ACI Structural Journal ,2009 3rd fib Congress Washington USA FIB - International Federation for Structural Concrete, 2010-06-01 Proceedings of the 6th International Conference on Civil Engineering, ICOCE 2022, Singapore Eric Strauss, 2022-08-08 The book presents a collection of articles from the 6th International Conference on Civil Engineering 2022 held in Singapore Important advances in the application of newly discovered technologies are highlighted in order to address many of society's contemporary problems in resilience energy production security and bioproducts Multiple fields of inquiry address the use of global engineering methods to promote governmental and industrial policies that reduce pollution protect existing structures from natural disasters as well as discuss successful engineering management practices in a variety of countries throughout the world This book consists of refereed submissions submitted by international scholars from multiple disciplines discussing emerging topics in civil and environmental engineering The emphasis is on ideas that can influence public policy to promote energy management air and water pollution control and green infrastructure The topics covered provide an excellent beginning for interested students researchers and industry professionals to understand emerging trends in technical research on a worldwide basis **Comprehensive Dissertation Index** ,1984 **Proceedings of the 3rd International Conference on Building Innovations** Volodymyr Onyshchenko, Gulchokra Mammadova, Svitlana Sivitska, Akif Gasimov, 2021-09-22 This book gathers the latest advances innovations and applications in the field of building design and construction by focusing on new design solutions for buildings and new technologies creation for construction as presented by researchers and engineers at the 3rd International Conference Building Innovations ICBI held in Poltava Baku Ukraine Azerbaijan on June 12 2020 It covers highly diverse topics including structures operation repairing and thermal modernization in existing buildings and urban planning features machines and mechanisms for construction as well as efficient economy and energy conservation issues in construction The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations ACI Manual of Concrete Practice ,2007 ACI Materials Journal ,2004 Journal of the American Concrete Institute American Concrete Institute, 1984 Each number includes Synopsis of recent articles

**HRIS Abstracts** National Research Council (U.S.). Highway Research Information Service,1989     *Japanese Technical Abstracts* ,1987     **Japanese Technical Periodical Index** ,1986     Transactions of the Japan Concrete Institute ,1988

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