

Application of the Deformation Theory in Section Analysis of Reinforced Concrete Members with High-Strength Reinforcement

Andrii Pavlikov, Oľha Harkava*

Department of Building Structures, National University "Yuri Kondratyuk Poltava Polytechnic", Poltava, 02215, Ukraine

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Abstract The application of deformation theory in section analysis of reinforced concrete members is based on the use of ultimate values of concrete compressive strains at the time of failure. These strains may be determined analytically by examining the bearing capacity function at the extremum. In such a study, it is usually assumed that the tensile reinforcement reaches the yield point and the stress in it is constant. When using high-strength reinforcement with conditional yield strength, the stress in the reinforcement at the moment of failure is not a constant value. This is also characteristic of over-reinforced members, in which at the moment of destruction stress in tensile reinforcement is less than its yield stress. For such a case, an analytical criterion for determining the ultimate compressive strain of concrete of reinforced concrete members is proposed. This criterion, together with the extreme concrete strength criterion, which is used for common reinforced concrete members, may be used as the basis of the methodology for calculating the strength of reinforced concrete structures. The ultimate compressive strains of concrete are determined by using the derived criterion for a range of concrete classes that match coefficient k from 1 to 5. Simple analytical dependencies for section analysis of reinforced concrete members with high-strength reinforcement are obtained on the basis of ultimate compressive strains of concrete. The application of the developed method is considered using examples.

Keywords Reinforced Concrete Member, Ultimate Concrete Strain, Section Analysis

1. Introduction

At present, the analysis of the section of reinforced concrete members is based on the deformation model. Determination of the design (ultimate) values of concrete compressive strain in the composition of the reinforced concrete member is carried out by different approaches. One of them is characterized by the application of ultimate values of concrete strain in the most compressed fiber determined experimentally [1–6]. According to the other approach, the introduced concept of the extreme strength criterion of a reinforced concrete member $\partial M / \partial \varepsilon_{cm} = 0$ is used. The ultimate values of concrete strain in the composition of flexural reinforced concrete members are determined analytically by studying the function $M_{du} = f(\varepsilon_{cm})$ on the extremum, where ε_{cm} is the strain of concrete in the most compressed cross-sectional fiber of reinforced concrete member [7–10]. Analytical approaches to determining ultimate compressive strain based on the energy balance method [11–12] and others [13–14] are known.

The application of the extreme criterion is possible for normally reinforced concrete members, namely those in

Section Reinforcement Kinetic Theory

J.D. Achenbach

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A Theory of Elasticity with Microstructure for Directionally Reinforced Composites J.D. Achenbach, 2014-05-04

Dynamic Compression Tests on Thin-section Reinforced Concrete David S. Fuss, 1965 In support of the task objective of formulating design criteria for thin shell concrete structures to withstand dynamic loading experiments were performed to obtain information about the behavior of thin section reinforced concrete members subjected to dynamic compression Information was obtained on the dynamic material strength and on the characteristics of the failure process The test members were planar concrete panels reinforced with a single layer of square meshed welded wire fabric Several combinations of panel thickness reinforcing wire diameter and mesh size were investigated as well as two concrete strengths 4 000 and 7 000 psi and a single rate of compressive stress application 100 000 psi per second The results of the experiments show that the dynamic material strength of thin compressively loaded members can be estimated as the sum of the dynamic concrete failure load and the dynamic steel yield load as long as estimates of dynamic concrete failure load are based upon concrete cylinder strength and estimates of dynamic steel yield stress do not exceed the maximum stresses prescribed for static design by the ACI Code ACI 318 63 During the failure process high strength concrete was found to expel more particles traveling at higher velocities than normal strength concrete and some types of reinforcing mesh were found to initiate expulsion of large pieces of concrete These two failure characteristics among others are illustrated in the report by the use of extracts from high speed photography of the tests Author Dynamic Shear Strength of Reinforced Concrete Beams Richard H. Seabold, 1970 Flows in Polymers, Reinforced Polymers and Composites Christophe Binetruy, Francisco Chinesta, Roland Keunings, 2015-03-30 This book gives a detailed and practical introduction to complex flows of polymers and reinforced polymers as well as the flow of simple fluids in complex microstructures Over the last decades an increasing number of functional and structural parts made so far with metals has been progressively reengineered by replacing metallic materials by polymers reinforced polymers and composites The motivation for this substitution may be the weight reduction the simpler cheaper or faster forming process or the ability to exploit additional functionalities The present Brief surveys modern developments related to the multi scale modeling and simulation of polymers reinforced polymers that involve a flowing microstructure and continuous fiber reinforced composites wherein the fluid flows inside a nearly stationary multi scale microstructure These developments concern both multi scale modeling defining bridges between the micro and macro scales with special emphasis on the mesoscopic scale at which kinetic theory descriptions apply and advanced simulation techniques able to address efficiently the ever more complex and detailed models defined at different scales This book is addressed to students Master and doctoral levels researchers and professionals interested in computational rheology and material forming processes involving polymers reinforced polymers and composites It provides a unique coverage of the state of the art in these multi disciplinary fields **2024-25 SSC JE (Pre & Mains) Civil Engineering Solved Papers YCT**

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Earthquake Engineering Michael N. Fardis, Zoran T. Rakicevic, 2011-10-07 Nowadays research in earthquake engineering is mainly experimental and in large scale advanced computations are integrated with large scale experiments to complement them and extend their scope even by coupling two different but simultaneous tests Earthquake engineering cannot give answers by testing and qualifying few small typical components or single large prototypes Besides the large diversity of Civil Engineering structures does not allow drawing conclusions from only a few tests structures are large and their seismic response and performance cannot be meaningfully tested in an ordinary lab or in the field So seismic testing facilities should be much larger than in other scientific fields their staff has to be resourceful devising intelligent ways to carry out simultaneously different tests and advanced computations To better serve such a mission European testing facilities and researchers in earthquake engineering have shared their resources and activities in the framework of the European project SERIES combining their research and jointly developing advanced testing and instrumentation techniques that maximize testing capabilities and increase the value of the tests This volume presents the first outcomes of the SERIES and its contribution towards Performance based Earthquake Engineering i e to the most important development in Earthquake Engineering of the past three decades The concept and the methodologies for performance based earthquake engineering have now matured However they are based mainly on analytical numerical research large scale seismic testing has entered the stage recently The SERIES Workshop in Ohrid MK in Sept 2010 pooled together the largest European seismic testing facilities Europe s best experts in experimental earthquake engineering and select experts from the USA to present recent research achievements and to address future developments Audience This volume will be of interest to researchers and advanced practitioners in structural earthquake engineering geotechnical earthquake engineering engineering seismology and experimental dynamics including seismic qualification

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