Shailendra Kumar Sudhirkumar V Barai

Concrete Fracture Models and Applications

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Zdenek P. Bazant

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Concrete Fracture Models and Applications Shailendra Kumar, Sudhirkumar V Barai, 2011-02-08 Cementitious materials rocks and fibre reinforced composites commonly termed as quasibrittle need a different fracture mechanics approach to model the crack propagation study because of the presence of significant size of fracture process zone ahead of the crack tip Recent studies show that concrete structures manifest three important stages in fracture process crack initiation stable crack propagation and unstable fracture or failure Fracture Mechanics concept can better explain the above various stages including the concepts of ductility size effect strain softening and post cracking behavior of concrete and concrete structures. The book presents a basic introduction on the various nonlinear concrete fracture models considering the respective fracture parameters To this end a thorough state of the art review on various aspects of the material behavior and development of different concrete fracture models is presented. The development of cohesive crack model for standard test geometries using commonly used softening functions is shown and extensive studies on the behavior of cohesive crack fracture parameters are also carried out The subsequent chapter contains the extensive study on the double K and double G fracture parameters in which some recent developments on the related fracture parameters are illustrated including introduction of weight function method to Double K Fracture Model and formulization of size effect behavior of the double K fracture parameters. The application of weight function approach for determining of the KR curve associated with cohesive stress distribution in the fracture process zone is also presented Available test data are used to validate the new approach Further effect of specimen geometry loading condition size effect and softening function on various fracture parameters is investigated Towards the end a comparative study between different fracture parameters obtained from various models is presented **Concrete Fracture Mechanics** Moosa Mazloom, 2025-09-26 Only relatively recently has the research community embraced fracture mechanics as the conceptual framework to capture the cracking of concrete As many factors affect crack development and propagation the complex subject matter is still being thoroughly studied from different angles to ensure effective applicability in practical scenarios With its gradually progressive pedagogical approach Concrete Fracture Mechanics Failure Analysis Modeling and Applied Examples of Reinforcement offers in depth insights into concrete failure analysis from a technical standpoint i e calculations structural prerequisites step by step guidance on key manufacturing processes revision of conventional concepts in the light of new findings and takes a step forward in modeling methods for predicting the performance and behavior of concrete structures by using cutting edge software tools for image processing and numerical simulation This results in holistic considerations about reinforcement techniques originating from the author's own experience both at building sites and from academic research contributions to maintain or optimize structural integrity This carefully thought out practical reference volume is intended to cater to students researchers as well as practicing professionals from a variety of closely interrelated civil engineering disciplines Includes case studies and worked out

examples Collects data through image processing software and solves finite element modeling of reinforced and unreinforced concrete beams with Abagus software Each chapter concludes with summaries and exercises that are useful aids to test knowledge and or revise Is accompanied by an ancillary site with supplementary notes exercises and solutions to complement the book s contents and enhance insight Concrete Fracture Jan G.M. van Mier, 2012-10-25 The study of fracture mechanics of concrete has developed in recent years to the point where it can be used for assessing the durability of concrete structures and for the development of new concrete materials The last decade has seen a gradual shift of interest toward fracture studies at increasingly smaller sizes and scales Concrete Fracture A Multiscale Approach explores fracture properties of cement and concrete based on their actual material structure Concrete is a complex hierarchical material containing material structural elements spanning scales from the nano to micro and meso level Therefore multi scale approaches are essential for a better understanding of mechanical properties and fracture in particular This volume includes various examples of fracture analyses at the micro and meso level The book presents models accompanied by reliable experiments and explains how these experiments are performed It also provides numerous examples of test methods and requirements for evaluating quasi brittle materials More importantly it proposes a new modeling approach based on multiscale interaction potential and examines the related experimental challenges facing research engineers and building professionals The book s comprehensive coverage is poised to encourage new initiatives for overcoming the difficulties encountered when performing fracture experiments on cement at the micro size scale and smaller The author demonstrates how the obtained results can fit into the larger picture of the material science of concrete particularly the design of new high performance concrete materials which can be put to good use in the development of efficient and durable structures

Current Trends in Concrete Fracture Research Zdenek P. Bazant, 2012-12-06 From time to time the International Journal of Fracture has presented matters thought to be of special interest to its readers The last special topic review was presented by Drs W G Knauss and AJ Rosakis as Guest Editors in four issues January April 1990 under the general title of Non Linear Fracture It contained sections on damage mechanisms interfaces and creep time depen dence and continuum plasticity insofar as they affect the mechanisms of the fracture process Continuing this policy which is consistent with our stated objectives the two September issues deal with the behavior of concrete and cementious materials during fracture initiation and propagation We hope that the ensuing state of the art review will yield another instructive and timely product which readers will find useful To assist us in presenting this subject we have prevailed upon a well known international expert in concrete behavior Dr Z P Bazant Walter P Murphy Professor of Civil Engineering of Northwes tern University to act as Guest Editor On behalf of the editors and publishers I wish to thank Professor BaZant and his invited authors for undertaking this special effort M L WILLIAMS Pittsburgh Pennsylvania Editor in Chief September 1991 International Journal of Fracture 51 ix xv 1991 Z P Bafant ed Current Trends in Concrete Fracture Research

Smart Geotechnics for Smart Societies Askar

Zhussupbekov, Assel Sarsembayeva, Victor N. Kaliakin, 2023-08-04 Smart Geotechnics for Smart Societies contains the contributions presented at the 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering 17th ARC Astana Kazakhstan 14 18 August 2023 The topics covered include Geomaterials for soil improvement Tunneling and rock engineering Slope embankments and dams Shallow and deep foundations Soil dynamics and geotechnical earthquake engineering Geoenvironmental engineering and frost geotechnics Investigation of foundations of historical structures and monitoring Offshore harbor geotechnics and GeoEnergy Megaprojects and transportation geotechnics Smart Geotechnics for Smart Societies will be of interest to academics and engineers interested or involved in geotechnical engineering

Functionalized Engineering Materials and Their Applications Sabu Thomas, Nandakumar Kalarikkal, Pious C. V., Zakiah Ahmad, Józef Tadeusz Haponiuk, 2018-09-03 Scientists and researchers are looking for new smart materials to replace old or conventional materials for better performance and for new applications The use of polymeric materials and nanomaterials is increasing due to their wide spectrum tunability and many properties It is now easier to formulate materials for special purposes using these materials than using conventional materials and methods Many commercial products made from polymeric materials and nanomaterials are now in use and on the market This book presents a diverse selection of cutting edge research on the development of polymeric materials and nanomaterials for new and different applications These include electrical applications biomedical applications sensing applications coating applications and others A few chapters dedicated to materials for construction applications are also included Discussions include the properties behavior preparation processing and characterization of various polymeric materials nanomaterials and their composites Some of the chapter authors present theoretical studies of these systems which can help readers to develop a better understanding in this area

Finite Elements in Civil Engineering Applications Max.A.N. Hendriks, J.A. Rots, 2021-06-23 These proceedings present high level research in structural engineering concrete mechanics and quasi brittle materials including the prime concern of durability requirements and earthquake resistance of structures Low Binder Concrete and Mortars Jorge de Brito, Rawaz Kurda, 2020-12-06 This book is the result of a Special Issue published in Applied Sciences entitled Low Binder Concrete and Mortars The main aim of this work is to highlight practical approaches that facilitate the production of low binder content concrete and mortar with an acceptable level of technical performance e.g. mechanical and durability and environmental impacts e.g. ecotoxicological and global warming Its contents are organized in the following sections. Developing Zero Cement Binder Ecotoxicological and Chemical Characteristics of the Non conventional Materials Used to Replace Cement and Natural Aggregates Reduce the Environmental Impacts and Resources Use of Binders Modify the Characteristics of the Cement Based Materials Low Binder Concrete On Site Application Sustainable Cement Based Materials in Road Engineering Advanced Technologies, Systems, and Applications IX Naida Ademović, Zlatan Akšamija, Almir Karabegović, 2024-09-30 This book is a comprehensive compilation of articles that delve into the forefront of

interdisciplinary applications of innovative technologies It presents the scientific inquiries and outcomes showcased at the 15th Days of the Bosnian Herzegovinian American Academy of Arts and Sciences conference held in Sarajevo Bosnia and Herzegovina from June 20 to 23 2024 The collection highlights the latest advancements and will draw the interest of researchers in diverse domains of engineering including civil engineering data science and geographic information systems computer science and artificial intelligence advanced environmental engineering and project management information and communication technologies and advanced electrical power systems This book serves as a testament to the ongoing pursuit of knowledge and innovation in these fields offering insights into the current research landscape and future directions The contributions not only expand the theoretical foundations but also explore practical applications that address contemporary challenges in technology and engineering The editors gratefully acknowledge the dedicated efforts of all the symposia chairs of the 15th Days of BHAAAS whose meticulous planning and scholarly oversight have enriched this book and contributed to its scholarly significance **Experimental and Theoretical Investigations of Steel-Fibrous Concrete** [acek Tejchman, Jan Kozicki, 2010-10-01 Concrete is still the most widely used construction material since it has the lowest ratio between cost and strength as compared to other available materials However it has two undesirable properties namely low tensile strength and large brittleness that cause the collapse to occur shortly after the formation of the first crack To improve these two negative properties and to achieve a partial substitute of conventional reinforcement an addition of short discontinuous randomly oriented steel fibres can be practiced among others In spite of positive properties fibrous concrete did not find such acknowledgment and application as usual concrete There do not still exist consistent dimensioning rules due to the lack sufficient large scale static and dynamic experiments taking into account the effect of the fibre orientation The intention of the book is twofold first to summarize the most important mechanical and physical properties of steel fibre added concrete and reinforced concrete on the basis of numerous experiments described in the scientific literature and second to describe a quasi static fracture process at meso scale both in plain concrete and fibrous concrete using a novel discrete lattice model In 2D and 3D simulations of fibrous concrete specimens under uniaxial tension the effect of the fibre volume fibre distribution fibre orientation fibre length fibrous bond strength and specimen size on both the stress strain curve and fracture process was carefully analyzed

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