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MECHANICAL PROPERTIES AND FLEXURAL BEHAVIOUR OF REINFORCED CONCRETE BEAMS CONTAINING RECYCLED CONCRETE AGGREGATE

Key words: normal aggregate (NA), recycled concrete aggregate (RCA), reinforced concrete (RC), interfacial transition zone (ITZ)

Introduction

Construction and demolition (C&D) waste is one of the most solid types of waste to accumulate annually in large quantities, because it has high durability, does not break down or decompose naturally, and thus becomes an internationally growing pollution problem with every passing year. Sweden, for example, annually produces about 1.5 M t of construction waste (Karlsson, 1998) while Poland produces 3.5 M t. One of the methods currently used to recycle this waste is to use it to replace natural aggregates, to produce new concrete by breaking clean blocks that do not contain

wood, rebar, or gypsum product residues, into sizes similar to gravel granules, and then washing and staging them, i.e. separating them using sieves into different sizes. It is called recycled concrete aggregate (RCA) and has the properties of the concrete from which it was produced and contains the same components (Bołtryk, Małasz-kiewicz & Pawluczyk, 2007). Choosing a well-recycled aggregate source can improve the properties of fresh concrete. Unlike natural aggregate (NA), recycled aggregate contains a large number of micro-cracks as a result of the crushing process. In addition, it may have old mortar attached to its surface. This means that an interfacial transition zone (ITZ) may form between the old mortar and the original aggregate, as shown in Figure 1, which is a weak region in RCA. That is why the quality of recycled aggregate is low.

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Composite Materials in Concrete Construction Ravindra K Dhir, Kevin A. Paine, Moray D. Newlands, 2002-08-28

Concrete is a global material that underwrites commercial wellbeing and social development. The pressure for change and improvement of performance is relentless and necessary. Concrete must keep evolving to satisfy the increasing demands of all its users. Proceedings of EcoComfort 2024 Zinoviy Blikharsky, Vasyl Zhelykh, 2024-08-08

This book gathers the latest innovations and applications in the field of resource saving technologies and advanced materials in civil and environmental engineering as presented by leading international researchers and engineers at the 4th International Scientific Conference EcoComfort and Current Issues of Civil Engineering held in Lviv, Ukraine, on September 11-13, 2024. It covers a diverse range of topics including ecological and energy saving technologies, renewable energy sources, heat, gas, and water supply, microclimate provision systems, innovative building materials and products, smart technologies in water purification and treatment, protection of water ecosystems, and architectural shaping and structural solutions. The book, which was selected using a rigorous international peer review process, highlights exciting ideas that will spur novel research directions and foster multidisciplinary collaborations. **FRPRCS-5** C. J. Burgoyne, 2001. Fibre reinforced plastics are increasingly being used as replacements for steel reinforcement in concrete structures. The reinforcement can be untensioned or it can be in the form of prestressing tendons. It is also suitable for gluing onto the outside of a structure to improve flexural or shear performance. This book provides up-to-date research results to give engineers confidence in their design methods.

Proceedings of AWAM International Conference on Civil Engineering 2022 - Volume 3 Nuridah

Sabtu, 2024-01-03. This book gathers the latest research innovations and applications in the field of civil engineering as presented by leading national and international academics, researchers, engineers, and postgraduate students at the AWAM International Conference on Civil Engineering 2022 AICCE 22 held in Penang, Malaysia, on February 15-17, 2022. The book covers highly diverse topics in the main fields of civil engineering, including structural and earthquake engineering, environmental engineering, geotechnical engineering, highway and transportation engineering, water resources engineering, and geomatics and construction management. In line with the conference theme, Sustainability and Resiliency Re-Engineering the Future, which relates to the United Nations 17 Global Goals for Sustainable Development, it highlights important elements in the planning and development stages to establish design standards beneficial to the environment and its surroundings. The contributions introduce numerous exciting ideas that spur novel research directions and foster multidisciplinary collaborations between various specialists in the field of civil engineering. This book is part of a 3-volume series of these conference proceedings; it represents Volume 3 in the series. *Innovations for Sustainable and Resilient Infrastructure* Suman Saha, Sabyasachi Biswas, 2025-05-30. This book aims to provide innovative solutions to the various problems faced during the infrastructural development across the globe. The book is highly focused on the following topics but not limited to:

innovative technologies in infrastructure sustainable materials smart cities climate resilient infrastructures and applications of AI and ML in infrastructure development The contributions presented in this volume reflect the extensive research and innovative thinking of researchers and practitioners dedicated to shaping the future of sustainable infrastructure It is anticipated that the knowledge shared through this conference proceedings book will inspire further advancements and collaborative efforts toward building sustainable and resilient infrastructure globally

Advanced Concretes and Their Structural Applications-Volume II Zhigang Zhang, Cong Zhang, Dong Zhang, Jialuo He, 2023-07-10

FRP Composites in Civil Engineering - CICE 2004 R. Seracino, 2004-12-15 The range of fibre reinforced polymer FRP applications in new construction and in the retrofitting of existing civil engineering infrastructure is continuing to grow worldwide Furthermore this progress is being matched by advancing research into all aspects of analysis and design The Second International Conference on FRP Composites in

Proceedings of the 6th International Conference on Rehabilitation and Maintenance in Civil Engineering—Volume 1 Keh-Chyuan Tsai, Mohamed Shahin, Stefanus A Kristiawan, Abdul Rahman Mohd Sam, Pham Dinh Hai, 2025-04-11 Book presents selected papers from the 6th International Conference on Rehabilitation and Maintenance in Civil Engineering 6th ICRC This MCE on July 4 5 2024 at Mataram Indonesia The papers covers topics related to developing and maintaining a sustainable built environment to mitigate the environmental impacts of human activities and create a healthier and more resilient future This is achieved through infrastructure development and maintenance issues from various perspectives and is brought together under the theme of policy design construction rehabilitation and maintenance for a sustainable built environment Readers will gain a deeper understanding of how to identify and solve issues related to infrastructure design construction use and maintenance toward realizing a sustainable built environment by tapping into various fields expertise within civil engineering such as material structural geotechnical transportation water resources and construction management

PRO 6: 3rd International RILEM Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC 3) Hans Wolfgang Reinhardt, Antoine E. Naaman, 1999

Mechcomp2 Antonio J.M. Ferreira, Ana M.A. Neves, Erasmo Viola, Francesco Tornabene, Nicholas Fantuzzi, 2016-05-20 Composites materials have aroused a great interest over the last few decades Several applications of fibrous composites functionally graded materials laminated composites nano structured reinforcements morphing structures can be found in many engineering fields such as aerospace mechanical naval and civil engineering The necessity of lightweight structures smart and adaptive systems high level strength have led both the academic research and the manufacturing development to a recurring employment of these materials Many journal papers and technical notes have been published extensively over the last seventy years in international scientific journals of different engineering fields For this reason the establishment of this second edition of Mechanics of Composites International Conference has appeared appropriate to continue what has been begun during the first edition occurred in 2014 at Stony Brook University USA MECHCOMP wants to be an occasion for

many researchers from each part of the globe to meet and discuss about the recent advancements regarding the use of composite structures As a proof of this event which has taken place in Porto Portugal selected plenary and key note lectures have been collected in the present book *Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment* Rajesh Vanchipura,K.S. Jiji,2018-08-06 The International Conference on Emerging Trends in Engineering Science and Technology ICETEST was held at the Government Engineering College Thrissur Kerala India from 18th to 20th January 2018 with the theme Society Energy and Environment covering related topics in the areas of Civil Engineering Mechanical Engineering Electrical Engineering Chemical Engineering Electronics Communication Engineering Computer Science and Architecture Conflict between energy and environment has been of global significance in recent years Academic research needs to support the industry and society through socially and environmentally sustainable outcomes ICETEST 2018 was organized with this specific objective The conference provided a platform for researchers from different domains to discuss and disseminate their findings Outstanding speakers faculties and scholars from different parts of the world presented their research outcomes in modern technologies using sustainable technologies **Bridge Safety, Maintenance, Management, Life-Cycle, Resilience and Sustainability** Joan Ramon Casas,Dan M. Frangopol,Jose Turmo,2022-06-27 Bridge Safety Maintenance Management Life Cycle Resilience and Sustainability contains lectures and papers presented at the Eleventh International Conference on Bridge Maintenance Safety and Management IABMAS 2022 Barcelona Spain 11 15 July 2022 This e book contains the full papers of 322 contributions presented at IABMAS 2022 including the T Y Lin Lecture 4 Keynote Lectures and 317 technical papers from 36 countries all around the world The contributions deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of safety maintenance management life cycle resilience sustainability and technological innovations of bridges Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle resilience sustainability standardization analytical models bridge management systems service life prediction structural health monitoring non destructive testing and field testing robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads needs of bridge owners whole life costing and investment for the future financial planning and application of information and computer technology big data analysis and artificial intelligence for bridges among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on bridge safety maintenance management life cycle resilience and sustainability of bridges for the purpose of enhancing the welfare of society The volume serves as a valuable reference to all concerned with and or involved in bridge structure and infrastructure systems including students researchers and practitioners from all areas of bridge engineering Geopolymer Concrete Structures with Steel and FRP Reinforcements Mohamed Elchalakani,Bo Yang,Kuanhong Mao,Thong Pham,2023-02-15 Geopolymer Concrete

Structures with Steel and FRP Reinforcements Analysis and Design focuses on structural behavior including the aspects of compression bending strength and combined action of GPC members with the book's content based on published studies over the last two decades Geopolymer concrete GPC structural members reinforced with FRP reinforcement have some advantages in resisting forces compared to conventional concrete or steel tubular members Among the most important are the high strength and bending stiffness fire and impact performance and favorable construction ability and durability To this end there are no significant applications of these new structural elements worldwide partly due to the lack of the understanding of their behavior and insufficient design provisions in different design manuals This book therefore seeks to highlight their characteristics and future potential Provides comprehensive up to date advances on Geopolymer Concrete GPC reinforced with steel and FRP bars and stirrups construction with a summary of over 100 papers published in the last decade Compares the behavior and failure modes between Geopolymer Concrete GPC structures and Ordinary Portland Concrete OPC structures Explains important concepts such as bond confinement fracture of stirrups and buckling of FRP bars Includes an in depth analysis of ultimate strength of GPC and OPC considering governing failure modes Presents design examples following international standards including North America ACI 440 1R 15 Canadian CAN CSA S806 and Australian such as AS 3600

Recent Advances in Structural Engineering K. S. Sreekeshava, Sreevalsa Kolathayar, N. Vinod Chandra Menon, 2024-03-27 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India The topics covered in this book include innovative design approaches advanced materials and cutting edge technologies aimed at enhancing the resilience of structures against various hazards such as seismic events hurricanes floods and extreme weather conditions It also covers topics such as structural integrity and longevity of buildings and infrastructure advanced monitoring systems data analytics and intelligent structural health monitoring This book is useful for researchers and professionals in the field of structural engineering

Frattura ed Integrità Strutturale - Annals 2013 AA.VV., 2013-12-31 Frattura ed Integrità Strutturale Fracture and Structural Integrity is the official Journal of the Italian Group of Fracture ISSN 1971 8993 It is an open access Journal published on line every three months July October January April Frattura ed Integrità Strutturale encompasses the broad topic of structural integrity which is based on the mechanics of fatigue and fracture and is concerned with the reliability and effectiveness of structural components The aim of the Journal is to promote works and researches on fracture phenomena as well as the development of new materials and new standards for structural integrity assessment The Journal is interdisciplinary and accepts contributions from engineers metallurgists materials scientists physicists chemists and mathematicians

Innovation, Communication and Engineering Teen-Hang Meen, Stephen Prior, Artde Donald Kin-Tak Lam, 2013-10-08 This volume represents the proceedings of the 2013 International Conference on Innovation Communication

and Engineering ICICE 2013 This conference was organized by the China University of Petroleum Huadong East China and the Taiwanese Institute of Knowledge Innovation and was held in Qingdao Shandong P R China October 26 November 1 2013 The conference received 653 submitted papers from 10 countries of which 214 papers were selected by the committees to be presented at ICICE 2013 The conference provided a unified communication platform for researchers in a wide range of fields from information technology communication science and applied mathematics to computer science advanced material science design and engineering This volume enables interdisciplinary collaboration between science and engineering technologists in academia and industry as well as networking internationally Consists of a book of abstracts 260 pp and a USB flash card with full papers 912 pp *FRP Composites in Civil Engineering* Jin-Guang Teng, 2001-11-15 This Proceedings contains the papers presented at the International Conference on FRP Composites in Civil Engineering held in Hong Kong China on 12 15 December 2001 The papers contributed from 24 countries cover a wide spectrum of topics and demonstrate the recent advances in the application of FRP Fibre reinforced polymer composites in civil engineering while pointing to future directions of research in this exciting area ITJEMAST V13(4)2022 Research Articles , Published articles from the International Transaction Journal of Engineering Management Applied Sciences Technologies ITJEMAST V13 4 2022

Beton Kalender 2017 Konrad Bergmeister, Frank Fingerloos, Johann-Dietrich Wörner, 2016-12-08 Beton unterliegt einem Wandel der Anforderungen und entwickelt selbst Innovationskraft mit Auswirkungen auf Gestaltung bis hin zur Baustellenlogistik Die Entwicklung von hochfesten ultrahochfesten und selbstverdichtenden Betonen die gestiegenen Qualitätsanforderungen und die zu erwartende Knappheit natürlicher Gesteinsressourcen setzen neue Anforderungsmaßstäbe an Entwurfskonzepte Die Anforderungen an die Dauerhaftigkeit von Beton zielen insbesondere auf eine gute Homogenität und auf eine relativ hohe Dichte Dieses Ziel kann nur im Zusammenwirken von Konstruktion Statik Herstellung Transport Führung Verarbeitung und Nachbehandlung erreicht werden Die Anforderungen an die Wirtschaftlichkeit von Betontragwerken können durch Optimierung von Prozessen und Automatisierung in der Baustellenlogistik erfüllt werden der Bauablauf im Jahr 2017 unterscheidet sich erheblich von Baustellen vor 50 oder gar 100 Jahren Immer höher erzielbare Festigkeiten ermöglichen schlankere Bauteile Auch die Gestaltbarkeit von Tragwerken wird vielseitiger diese erfordert aber gleichzeitig eine leichte Verarbeitbarkeit Vor diesem Hintergrund enthält der Beton Kalender 2017 eine Reihe von Beiträgen über Betonherstellung aktuelle Produkterweiterungen sowie verschiedene Anwendungen von Spezialbetonen und deren Qualitätssicherung sowie erstmalig über die bautechnische Anwendung von tragenden Kunststoffbauteilen Außerdem wurde der aktuelle Wissensstand über Spannbeton aufgearbeitet In bewährter Weise werden aktuelle europäische und nationale Normen in konsolidierten Kurzfassungen fortgeführt Der Beton Kalender 2017 ist eine besondere Fundgrube für Ingenieure in Planungsbüros und in der Bauindustrie Data-Centric Structural Health Monitoring Mohammad Noori, Fuh-Gwo Yuan, Ehsan Noroozinejad Farsangi, 2023-09-05 This book introduces the latest developments in data centric engineering

including different artificial intelligence and machine learning approaches as well as their wide range of applications for long term monitoring and health assessment of mechanical aerospace and complex infrastructure systems Leading scholars in the field demonstrate these emerging techniques assure the longevity of engineered systems and predict their life cycles

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