

# Handbook of recycled concrete and demolition waste

Edited by F. Pacheco-Torgal, V. W. Y. Tam, J. A. Labrincha, Y. Ding and J. de Brito



Jorge de Brito, Francisco Agrela

Handbook of Recycled Concrete and Demolition Waste F. Pacheco-Torgal, Yining Ding, 2013-09-30 The civil engineering sector accounts for a significant percentage of global material and energy consumption and is a major contributor of waste material The ability to recycle and reuse concrete and demolition waste is critical to reducing environmental impacts in meeting national regional and global environmental targets Handbook of recycled concrete and demolition waste summarises key recent research in achieving these goals Part one considers techniques for managing construction and demolition waste including waste management plans ways of estimating levels of waste the types and optimal location of waste recycling plants and the economics of managing construction and demolition waste Part two reviews key steps in handling construction and demolition waste It begins with a comparison between conventional demolition and construction techniques before going on to discuss the preparation refinement and quality control of concrete aggregates produced from waste It concludes by assessing the mechanical properties strength and durability of concrete made using recycled aggregates Part three includes examples of the use of recycled aggregates in applications such as roads pavements high performance concrete and alkali activated or geopolymer cements Finally the book discusses environmental and safety issues such as the removal of gypsum asbestos and alkali silica reaction ASR concrete as well as life cycle analysis of concrete with recycled aggregates Handbook of recycled concrete and demolition waste is a standard reference for all those involved in the civil engineering sector as well as academic researchers in the field Summarises key recent research in recycling and reusing concrete and demolition waste to reduce environmental impacts and meet national regional and global environmental targets Considers techniques for managing construction and demolition waste including waste management plans ways of estimating levels of waste the types and optimal location of waste recycling plants Reviews key steps in handling construction and demolition waste Concrete Recycling Francois de Larrard, Horacio Colina, 2019-03-04 Francois de Larrard is Scientific Director of the R D centre of the LafargeHolcim group and Scientific Director of the French national project Recyb ton He formerly spent almost thirty years at IFSTTAR formerly LCPC He has been granted both the Robert 1 Hermite medal and the G H Tattersall award by RILEM and is author of two books including Concrete Mixture Proportioning which is also published by Taylor Francis Green and Advanced Building Materials and Structural Engineering Nuno Dinis Costa Areias Cortiços, Zongjin Li, Paulo Mendonca, Soon Hyung Hong, Hideaki Tsukamoto, Yuyuan Zhao, 2023-12-15 Special topic volume with invited peer reviewed papers only Biochar Mattia Bartoli, Mauro Giorcelli, Alberto Tagliaferro, 2023-01-25 Biochar is the carbonaceous residue produced from the pyrolytic conversion of biomass It is generally used for agricultural applications as a soil amendment but has far wider potential This book presents the use of biochar as a platform for the development of new intriguing solutions in several cutting edge fields. The book is a useful reference volume

for any reader with a strong scientific and technological background ranging from scientific advisors in private companies to academic researchers promoting the spread of knowledge about biochar to anyone not already working with it Marine Concrete Structures Mark Alexander, 2016-09-13 Marine Concrete Structures Design Durability and Performance comprehensively examines structures located in under or in close proximity to the sea A major emphasis of the book is on the long term performance of marine concrete structures that not only represent major infrastructure investment and provision but are also required to operate with minimal maintenance Chapters review the design specification construction and operation of marine concrete structures and examine their performance and durability in the marine environment A number of case studies of significant marine concrete structures from around the world are included which help to reinforce the principles outlined in earlier chapters and provide useful background to these types of structures The result is a thorough and up to date reference source that engineers researchers and postgraduate students in this field will find invaluable Covers in detail the design specification construction and operation of marine concrete structures Examines the properties and performance of concrete in the marine environment Provides case studies on significant marine concrete structures and durability based design from around the world New Trends in Recycled Aggregate Concrete Jorge de Brito, Chi Sun Poon, Baojian Zhan, 2019-07-15 This book is the result of a Special Issue published in Applied Sciences entitled New Trends in Recycled Aggregate Concrete It identifies emerging research areas within the field of recycled aggregate concrete and contributes to the increased use of this eco efficient material Its contents are organised in the following sections Upscaling the use of recycled aggregate concrete in structural design Large scale applications of recycled aggregate concrete Long term behaviour of recycled aggregate concrete Performance of recycled aggregate concrete in very aggressive environments Reliability of recycled aggregate concrete structures Life cycle assessment of recycled aggregate concrete New applications of recycled aggregate concrete Sustainable Construction Resources in Geotechnical Engineering Hemanta Hazarika, Stuart Kenneth Haigh, Babloo Chaudhary, Masanori Murai, Suman Manandhar, 2024-04-08 This book presents select proceedings of the 2nd International Conference on Construction Resources for Environmentally Sustainable Technologies CREST 2023 and focuses on sustainability promotion of new ideas and innovations in design construction and maintenance of geotechnical structures with the aim of contributing towards climate change adaptation and disaster resiliency to meet the UN Sustainable Development Goals SDGs It presents latest research information technological advancement practical challenges encountered and solutions adopted in the field of geotechnical engineering for sustainable infrastructure towards climate change adaptation This volume will be of interest to those in academia and industry alike Advances in Sustainable Construction Materials Sabyasachi Biswas, Subhadeep Metya, Sanjay Kumar, Pijush Samui, 2021-04-10 This book presents select proceedings of National Conference on Advances in Sustainable Construction Materials ASCM 2020 and examines a range of durable energy efficient and next generation construction materials produced from industrial wastes and

by products The topics covered include sustainable materials and construction innovations in recycling concrete green buildings and innovative structures utilization of waste materials in construction geopolymer concrete self compacting concrete by using industrial waste materials nanotechnology and sustainability of concrete environmental sustainability and development recycling solid wastes as road construction materials emerging sustainable practices in highway pavements construction plastic roads pavement analysis and design application of geosynthetics for ground improvement sustainability in offshore geotechnics green tunnel construction technology and application ground improvement techniques and municipal solid waste landfill Given the scope of contents the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings Fire Safety Engineering - Measures, Policies, and Applications Chiara Bedon, Andrea Lucherini, Flavio Stochino, 2025-06-04 Talking about fire safety engineering is relatively common for many different reasons Motivation can be easily found in the various tasks that fall under such a general expression Fire safety engineering denotes in fact the well known practice of designing and installing systems building components and or structures that are able to prevent and reduce the risk of fire minimizing the hazard for people and property This primary goal necessarily requires a multidisciplinary strategy and competence to find optimal solutions in the case of a fire Some experts could be in fact involved in fire safety policy measures others could be asked to provide robust communication technology in case of a fire emergency while some could give major feedback and innovative technical skills at the level of building materials and systems All in all multiple ways and approaches based on scientific and engineering principles are implicitly involved in a fire safety engineering task Five different research contributions are presented in this book project focusing on communication technologies in the case of a fire emergency fire safety policy strategies and design strategies for mitigating the effects of fire in buildings Their research methodology and results clearly show the relevance and variety of fire safety engineering issues and contribute to a continuously innovating field

Advances in Construction and Demolition Waste Recycling F. Pacheco-Torgal, Francesco Colangelo, Rabin Tuladhar, Yining Ding, Zhao Xin-Yu, Alexander Koutamanis, 2025-05-02 Advances in Construction and Demolition Waste Recycling Digital Technologies Management Processing and Environmental Assessment presents recent research in recycling and reuse of concrete and demolition waste in construction applications. The book starts with a detailed introductory section on digital technologies that are used to enhance circularity Part Two focuses on the management of construction and demolition waste including estimation of quantities and the use of BIM and GIS tools Part Three reviews the processing of recycled aggregates along with the performance of concrete mixtures using different types of recycled aggregates Part Four looks at the environmental assessment of non hazardous waste This book will be a standard reference for civil engineers structural engineers architects and academic researchers working in the field of construction and demolition waste Presents cutting edge research in recycling and reuse of concrete and demolition waste Discusses techniques for managing construction and

demolition waste including waste management plans ways of estimating levels of waste and types and location of waste recycling plants Reviews key steps in handling construction and demolition waste Contains an entire new section on the use of digital technologies to enhance the circularity of construction and demolition waste Additional chapters are included on selective disassembly planning robots for automatic waste sorting laser based sorting usage of air jigging for multi component separation of construction and demolition waste and recycled asphalt RA for self healing pavements

Advanced Composites in Bridge Construction and Repair Yail Jimmy Kim, 2014-05-16 Advanced composite materials for bridge structures are recognized as a promising alternative to conventional construction materials such as steel After an introductory overview and an assessment of the characteristics of bonds between composites and quasi brittle structures Advanced Composites in Bridge Construction and Repair reviews the use of advanced composites in the design and construction of bridges including damage identification and the use of large rupture strain fiber reinforced polymer FRP composites The second part of the book presents key applications of FRP composites in bridge construction and repair including the use of all composite superstructures for accelerated bridge construction engineered cementitious composites for bridge decks carbon fiber reinforced polymer composites for cable stayed bridges and for repair of deteriorated bridge substructures and finally the use of FRP composites in the sustainable replacement of ageing bridge superstructures Advanced Composites in Bridge Construction and Repair is a technical guide for engineering professionals requiring an understanding of the use of composite materials in bridge construction Reviews key applications of fiber reinforced polymer FRP composites in bridge construction and repair Summarizes key recent research in the suitability of advanced composite materials for bridge structures as an alternative to conventional construction materials **New Trends in Eco-efficient** and Recycled Concrete Jorge de Brito, Francisco Agrela, 2018-11-16 New Trends in Eco efficient and Recycled Concrete describes different recycled materials that have been used in eco efficient concrete reviewing previous publications to identify the most effective recycled materials to be applied in concrete manufacture New trends on eco efficient concrete are presented filling a gap in the market Sections cover various recycled materials applied in concrete production present the latest on the lifecycle analysis of recycled aggregate concrete detail new trends in recycled aggregate concrete research and finally present updates on upscaling the use of recycled aggregate concrete and structural reliability Focuses on new trends in recycled aggregate concrete and its applications rather than the more subjective sustainability aspects Contains very important contributions from researchers in eco efficient concrete including Chi Sun Poon Jorge de Brito Valeria Corinaldesi Francisco Agrela etc Presents a one stop reference for a graduate course on sustainable construction Handbook of Alkali-Activated Cements, Mortars and Concretes F. Pacheco-Torgal, Joao Labrincha, C Leonelli, A Palomo, P Chindaprasit, 2014-11-20 This book provides an updated state of the art review on new developments in alkali activation The main binder of concrete Portland cement represents almost 80% of the total CO2 emissions of concrete which are about 6 to

7% of the Planet's total CO2 emissions. This is particularly serious in the current context of climate change and it could get even worse because the demand for Portland cement is expected to increase by almost 200% by 2050 from 2010 levels reaching 6000 million tons year Alkali activated binders represent an alternative to Portland cement having higher durability and a lower CO2 footprint Reviews the chemistry mix design manufacture and properties of alkali activated cement based concrete binders Considers performance in adverse environmental conditions Offers equal emphasis on the science behind the technology and its use in civil engineering Corrosion of Steel in Concrete Structures Amir Poursaee, 2016-02-17 Corrosion of reinforcing steel is now recognized as the major cause of degradation of concrete structures in many parts of the world Despite this infrastructure expenditure is being unreasonably decreased by sequestration and the incredible shrinking discretionary budget All components of our infrastructure including highways airports water supply waste treatment energy supply and power generation require significant investment and are subjected to degradation by corrosion which significantly reduces the service life reliability functionality of structures and equipment and safety Corrosion of Steel in Concrete Structures provides a comprehensive review of the subject in addition to recent advances in research and technological developments from reinforcing materials to measurement techniques and modelling This book contains not only all the important aspects in the field of corrosion of steel reinforced concrete but also discusses new topics and future trends Part One of the book tackles theoretical concepts of corrosion of steel in concrete structures The second part moves on to analyse the variety of reinforcing materials and concrete including stainless steel and galvanized steel Part Three covers measurements and evaluations such as electrochemical techniques and acoustic emission Part Four reviews protection and maintenance methods whilst the final section analyses modelling latest developments and future trends in the field The book is essential reading for researchers practitioners and engineers who are involved in materials characterisation and corrosion of steel in concrete structures Provides comprehensive coverage on a broad range of topics related to the corrosion of steel bars in concrete Discusses the latest measuring methods and advanced modeling techniques Reviews the range of reinforcing materials and types of concrete **Sustainability of Construction Materials** Jamal Khatib, 2016-08-12 Sustainability of Construction Materials Second Edition explores an increasingly important aspect of construction In recent years serious consideration has been given to environmental and societal issues in the manufacturing use disposal and recycling of construction materials This book provides comprehensive and detailed analysis of the sustainability issues associated with these materials mainly in relation to the constituent materials processing recycling and lifecycle environmental impacts The contents of each chapter reflect the individual aspects of the material that affect sustainability such as the preservation and repair of timber the use of cement replacements in concrete the prevention and control of metal corrosion and the crucial role of adhesives in wood products Provides helpful guidance on lifecycle assessment durability recycling and the engineering properties of construction materials Fully updated to take on new

developments with an additional nineteen chapters added to include natural stone polymers and plastics and plaster products Provides essential reading for individuals at all levels who are involved in the construction and selection assessment and use and maintenance of materials Nonconventional and Vernacular Construction Materials Kent A. Harries, Bhavna Sharma, 2016-01-28 Nonconventional and Vernacular Construction Materials Characterisation Properties and Applications provides a comprehensive repository of information on materials science and the modern structural engineering application of ancient vernacular and nonconventional building materials with leading experts contributing chapters that focus on current applications and the engineering of these construction materials Opening with a historic retrospective of nonconventional materials Part One includes a review of vernacular construction and a discussion of the future directions for nonconventional and vernacular materials research and applications Chapters in Part Two focus on natural fibers including their application in cementitious composites non cementitious composites and strawbale construction In Part Three chapters cover the use of industrial by products and natural ashes in cement mortar and concrete and construction using soil cement blocks clay based materials adobe and earthen materials and ancient stone masonry Timber bamboo and paper construction materials are investigated in the final section of the book Provides a state of the art review of the modern use and engineering of nonconventional building materials Contains chapters that focus on individual construction materials and address both material characterization and structural applications Covers sustainable engineering and the trend towards engineering for humanity 8th International Conference on Civil Engineering and Materials Science & 9th International Conference on Architecture, Materials and Construction Nuno Dinis Costa Areias Cortiços, Zongjin Li, 2024-02-09 Selected peer reviewed extended articles based on abstracts presented at the 8th International Conference on Civil Engineering and Materials Science ICCEMS 2023 and 9th International Conference on Architecture Materials and Construction ICAMC 2023 Aggregated Book Thermal Cracking of Massive Concrete Structures Eduardo M.R. Fairbairn, Miguel Azenha, 2018-05-23 This book provides a State of the Art Report STAR produced by RILEM Technical Committee 254 CMS Thermal Cracking of Mas sive Concrete Structures Several recent developments related to the old problem of understanding predicting stresses originated from the evolution of the hydration of concrete are at the origin of the creation this technical committee Having identified a lack in the organization of up to date scientific and technological knowledge about cracking induced by hydration heat effects this STAR aims to provide both practitioners and scientists with a deep integrated overview of consolidated knowledge together with recent developments on this subject Textile Fibre Composites in Civil Engineering Thanasis Triantafillou, 2016-02-08 Textile Fibre Composites in Civil Engineering provides a state of the art review from leading experts on recent developments the use of textile fiber composites in civil engineering and a focus on both new and existing structures Textile based composites are new materials for civil engineers Recent developments have demonstrated their potential in the prefabrication of concrete structures and as a tool for both strengthening and seismic

retrofitting of existing concrete and masonry structures including those of a historical value The book reviews materials production technologies fundamental properties testing design aspects applications and directions for future research and developments Following the opening introductory chapter Part One covers materials production technologies and the manufacturing of textile fiber composites for structural and civil engineering Part Two moves on to review testing mechanical behavior and durability aspects of textile fiber composites used in structural and civil engineering Chapters here cover topics such as the durability of structural elements and bond aspects in textile fiber composites Part Three analyzes the structural behavior and design of textile reinforced concrete This section includes a number of case studies providing thorough coverage of the topic The final section of the volume details the strengthening and seismic retrofitting of existing structures Chapters investigate concrete and masonry structures in addition to providing information and insights on future directions in the field The book is a key volume for researchers academics practitioners and students working in civil and structural engineering and those working with advanced construction materials Details the range of materials and production technologies used in textile fiber composites Analyzes the durability of textile fiber composites including case studies into the structural behavior of textile reinforced concrete Reviews the processes involved in strengthening existing concrete Eco-efficient Masonry Bricks and Blocks Fernando Pacheco-Torgal, Paulo B. Lourenco, Joao structures Labrincha, Prinya Chindaprasirt, S. Kumar, 2014-11-27 Masonry walls constitute the interface between the building s interior and the outdoor environment Masonry walls are traditionally composed of fired clay bricks solid or perforated or blocks concrete or earth based but in the past and even in the present they were often associated as needing an extra special thermal and acoustical insulation layer However over more recent years investigations on thermal and acoustical features has led to the development of new improved bricks and blocks that no longer need these insulation layers Traditional masonry units fired clay bricks concrete or earth based blocks that don't offer improved performance in terms of thermal and acoustical insulation are a symbol of a low technology past that are far removed from the demands of sustainable construction This book provides an up to date state of the art review on the eco efficiency of masonry units particular emphasis is placed on the design properties performance durability and LCA of these materials Since masonry units are also an excellent way to reuse bulk industrial waste the book will be important in the context of the Revised Waste Framework Directive 2008 98 EC which states that the minimum reuse and recycling targets for construction and demolition waste CDW should be at least 70% by 2020 On the 9th of March 2011 the European Union approved the Regulation EU 305 2011 known as the Construction Products Regulation CPR and it will be enforced after the 1st of July 2013 The future commercialization of construction materials in Europe makes their environmental assessment mandatory meaning that more information related to the environmental performance of building materials is much needed Provides an authoritative guide to the eco efficiency of masonry units Examines the reuse of waste materials Covers a range of materials including clay cement earth and pumice

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