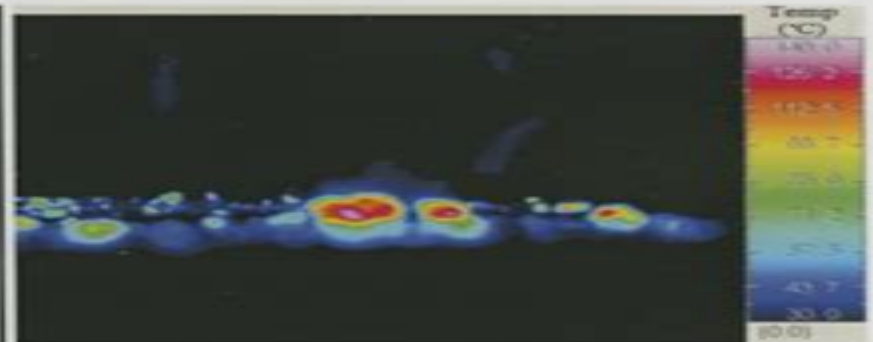


Microwave-Assisted Concrete Technology

Production, Demolition and Recycling



K. C. Gary Ong and Ali Akbarnezhad

Microwave Assisted Concrete Technology Production Demolition And Recycling

**Vivian W. Y. Tam, Mahfooz Soomro, Ana
Evangelista**



Microwave Assisted Concrete Technology Production Demolition And Recycling:

Microwave-Assisted Concrete Technology K.C. Gary Ong, Ali Akbarnezhad, 2018-10-09 Microwave Technology A Powerful Technique The first book to combine microwave assisted heating technology and concrete technology covering production demolition and recycling Microwave Assisted Concrete Technology Production Demolition and Recycling explains the underlying concepts and fundamentals involved in the microwave assisted heating of concrete While most books on microwave heating focus on the behavior of microwaves this text centers on the response of materials subjected to microwaves and specifically concentrates on materials used in the concrete industry A ready reference for the design of microwave based equipment the book describes how microwave assisted heating technology may be harnessed in the production demolition and recycling of concrete It covers microwave assisted applications the design concepts of microwave heating systems generators and applicators used in microwave assisted concrete processing methods and process control techniques used to monitor the condition of concrete during the heating process Learn How to use the Microwave Assisted Heating Process for Industry The book is written from the perspective of modern practitioners in the construction industry and addresses the technological scientific and environmental issues involved in replacing conventional approaches with microwave heating The authors categorize the applications of microwave heating in concrete technology into three areas microwave assisted accelerated curing of concrete microwave assisted selective demolition and drilling of concrete and the microwave assisted recycling of concrete They discuss sustainability and the environmental impact of incorporating sustainable concrete production demolition and recycling using microwave assisted heating technologies and environmentally friendly microwave heating applications This text covers The basics of concrete microwave field interactions Microwave assisted concrete technologies for use in the production demolition and recycling of concrete as well as the control mechanisms required to ensure the efficiency of these methods The design of microwave heating applicators Microwave Assisted Concrete Technology Production Demolition and Recycling does not require a familiarity with electromagnetism science and can be easily understood by civil engineers as well as by readers with little or no engineering background

Recycling of Building Materials Anette Müller, Isabel Martins, 2022-03-23 The need to establish material cycles in the building industry is undisputed Knowledge on this topic is available in many places In this book it is summarised and systematized After a general overview of the quantities generated recovery rates and areas of application of recycled building materials the current processing steps on which recycling is based and the possibilities for influencing the product properties are discussed Furthermore recycling building materials are characterized and their fields of application are presented The starting point is always the original building material which is later found in the construction waste The focus is on the structural properties The environmental aspects which have determined the discussion for years are shown to the necessary extent The book concludes with a chapter that presents new developments in processing technologies and analyses

the potential of construction waste as a source of raw materials

Advanced Concrete Technology Zongjin Li,Xiangming Zhou,Hongyan Ma,Dongshuai Hou,2022-09-14 Advanced Concrete Technology A thorough grounding in the science of concrete combined with the latest developments in the rapidly evolving field of concrete technology In the newly revised second edition of Advanced Concrete Technology a distinguished team of academics and engineers delivers a state of the art exploration of modern and advanced concrete technologies developed during the last decade The book combines the essential concepts and theory of concrete with practical examples of material design composition processing characterization properties and performance The authors explain in detail the hardware and software of concrete and offer readers discussions of the most recent advances in concrete technology including but not limited to concrete recycling nanotechnology microstructural simulation additive manufacturing and non destructive testing methods This newest edition of Advanced Concrete Technology provides a sustained emphasis on sustainable and novel technologies like new binders 3D printing and other advanced materials and techniques Readers will also find A thorough introduction to concrete including its definition and its historical evolution as a material used in engineering and construction In depth explorations of the materials for making concrete and the properties of fresh concrete Comprehensive discussions of the material structure of concrete hardened concrete and advanced cementitious composites Fulsome treatments of concrete fracture mechanics non destructive testing in concrete engineering and future trends in concrete Perfect for undergraduate and graduate students studying civil or materials engineering especially those taking classes in the properties of concrete or concrete technologies as well as engineers in the concrete industry Advanced Concrete Technology 2nd Edition will also earn a place in the libraries of civil and materials engineers working in the industry

Proceedings of the 3rd Pan American Materials Congress Marc André Meyers,Hector Alfredo Calderon Benavides,Sonia P Brühl,Henry A Colorado,Elvi Dalgaard,Carlos Nelson Elias,Roberto B Figueiredo,Omar Garcia-Rincon,Megumi Kawasaki,Terence G. Langdon,R.V. Mangalaraja,Mery Cecilia Gomez Marroquin,Adriana da Cunha Rocha,Julie M Schoenung,Andre Costa e Silva,Mary Wells,Wen Yang,2017-02-07 This collection covers a variety of materials science topics and has contributions from leading scientists and engineers representing 8 countries and 9 international materials metals and minerals societies Papers are organized into the following sections Advanced BiomaterialsAdvanced ManufacturingMaterials for Green Energy Materials for Infrastructure Materials for the Oil and Gas Industry Materials for Transportation and LightweightingMinerals Extraction and ProcessingNanocrystalline and Ultra fine Grain Materials and Bulk Metallic Glasses Steels

Sustainability Improvements in the Concrete Industry Carlo Pellegrino,Flora Faleschini,2016-10-01 This book examines state of the art techniques for using recycled materials for structural concrete production and explores the use of concrete with metallurgical slag rheology of fresh recycled concrete and life cycle analysis of building materials It reviews recent codes guidelines and practices for using recycled materials in structural concrete application and presents research recently

carried out by the authors Focusing on techniques that limit the environmental impacts of the concrete industry the text explores the use of recycled components in the place of virgin aggregates and ordinary binders Chapters focus on topics including processing procedures mixture proportioning mechanical properties durability and structural applications Providing a valuable resource to engineering postgraduates and researchers this book is also intended for civil engineers geologists and concrete engineers **REWAS 2013** Anne Kvithyld,Christina Meskers,Randolph Kirchain,Greg Krumdick,Brajendra Mishra,Markus Reuter,Cong Wang,Mark Schlesinger,Gabrielle Gaustad,Diana Lados,Jeffrey Spangenberg,2016-12-05 This volume compiles topics from the REWAS 2013 symposium at the TMS Annual Meeting focusing on different aspects of sustainability It discusses how to realize sustainability in such areas as transportation the built environment electrical and electronic equipment and infrastructure energy production and water systems Enabling sustainability topics include the use of metals and materials processing recycling and recovery as well as process design and modeling The book focuses on understanding sustainability through life cycle management and analysis systems modeling and design and education and consumer awareness **Environment-Friendly Construction Materials** Shaopeng Wu,Inge Hoff,Serji Amirkhanian,Yue Xiao,2019-06-20 Construction materials are the most widely used materials for civil infrastructure in our daily lives However from an environmental point of view they consume a huge amount of natural resources and generate the majority of greenhouse gasses Therefore many new and novel technologies for designing environmentally friendly construction materials have been developed recently This Special Issue Environment Friendly Construction Materials has been proposed and organized as a means to present recent developments in the field of construction materials It covers a wide range of selected topics on construction materials **Materials Innovations and Solutions in Science and Technology** Azman Ismail,Fatin Nur Zulkipli,Mohd Amran Mohd Daril,Andreas Öchsner,2023-03-18 This book offers innovative ideas and solutions from tropical fruits and crops for engineering problems It covers a wide range of topics related to science engineering and technologies The topics shared in this book enable practitioners and innovators to develop subsequent novel ideas and methods for solving engineering and technological problems for organizations to sustain its operation in global challenges *Application of Waste Materials in Lightweight Aggregates* Franus Małgorzata,2023-11-27 Application of Waste Materials in Lightweight Aggregates presents the current state of knowledge on aggregates production methods their characteristics current standards and legal regulations In addition the book briefly discusses the issue of the presence of different types of waste in the environment including municipal agricultural energy and mining industries their characteristics and uses for the production of lightweight aggregates This book serves as a source of academic information on the course and conditions of using various waste treatment processes for academics engineers professionals and students interested in environmental engineering as well as for companies dealing with recycling and disposal of waste *BioCycle* ,1992 Journal of composting recycling *Nuclear*

Science Information of Japan. Oral Presentation ,1993

Recycled Concrete Vivian W. Y. Tam, Mahfooz Soomro, Ana

Evangelista, 2022-11-11 *Recycled Concrete Technologies and Performance* presents the latest technologies that can be applied to produce high and consistent quality recycled aggregate for use in structural concrete and in alternative binders like Geopolymer and other types of concrete. The book discusses the lifecycle assessment of implementing sustainable construction technologies and evaluates the environmental impacts of recycled concrete in construction applications. It covers their use in the production of durable recycled concrete, their reduced environmental impact, quality improvement techniques, and more, making it valuable and relevant for civil and structural engineers, recycle industry managers, ready mix and precast concrete producers, and researchers. Discusses alternative binding materials for recycled aggregate. Covers how to use concrete with recycled aggregates along with the advantages and disadvantages. Provides guidance on using recycled concrete aggregates, designing mixtures, and how to best produce RCAs. **Concrete Recycling** Francois de

Larrard, Horacio Colina, 2019-03-04. The concrete industry consumes thirty billion tons of aggregate annually, almost all from non-renewable natural sources. Demolition produces a growing amount of materials which are legally usable and readily available. If not used locally, they must be transported and landfilled. Also, demolition generally takes place close to new construction sites; recycling promotes shorter transportation distances, a must for improving the overall environmental footprint of the construction world. This book encompasses all aspects of this current trend: How recycled aggregates are obtained and their properties; Improving their quality through phase selection or separation; Incorporating concrete from demolition into the cement production process and the properties of the product obtained; What are the properties of concrete incorporating recycled concrete aggregates at various replacement levels throughout the lifecycle of the material from the fresh state to the long term, including durability and fire; How recycled concrete can be optimised for various uses; How this new structural material can be managed in reinforced concrete construction. Solid experience from a series of experimental sites and drawing on the Recyb ton project which lasted more than 5 years and gathered about 50 partners from both academia and industry. Specific issues in recycled concrete quality control. National practices in the most advanced countries and the main national and European standards. Achieving a sustainable process. *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

Recycled Aggregate in Concrete Jorge de Brito, Nabajyoti Saikia, 2012-11-21 Concrete is the most used man made material in the world since its invention The widespread use of this material has led to continuous developments such as ultra high strength concrete and self compacting concrete Recycled Aggregate in Concrete Use of Industrial Construction and Demolition Waste focuses on the recent development which the use of various types of recycled waste materials as aggregate in the production of various types of concrete By drawing together information and data from various fields and sources Recycled Aggregate in Concrete Use of Industrial Construction and Demolition Waste provides full coverage of this subject Divided into two parts a compilation of varied literature data related to the use of various types of industrial waste as aggregates in concrete is followed by a discussion of the use of construction and demolition waste as aggregate in concrete The properties of the aggregates and their effect on various concrete properties are presented and the quantitative procedure to estimate the properties of concrete containing construction and demolition waste as aggregates is explained Current codes and practices developed in various countries to use construction and demolition waste as aggregates in concrete and issues related to the sustainability of cement and concrete production are also discussed The comprehensive information presented in Recycled Aggregate in Concrete Use of Industrial Construction and Demolition Waste will be helpful to graduate students researchers and concrete technologists The collected data will also be an essential reference for practicing engineers who face problems concerning the use of these materials in concrete production

Adhesion Problems in the Recycling of Concrete Pieter C. Kreijger, 2013-03-09 The building explosion during the years 1945 1960 will inevitably lead to increased demolition in the next decades since the lifetime distribution of structures no longer fulfills its functional social requirements in an acceptable way In the building period mentioned there was a great increase in reinforced and prestressed concrete construction Consequently there is now more and more concrete to be demolished Increasingly severe demands will be made upon

demolition technology including the demand for human and environment friendly techniques On the other hand the possibility of disposing of debris by dumping is steadily diminishing especially close to major cities and generally in countries with a high population density At the same time in such countries and in such urban areas a shortage of aggregates for making concrete will develop as a result of restrictions on aggregate working because of its effect on the environment and because of the unavailability of aggregate deposits due to urban development From the foregoing it follows that recycling and re use of environment and human friendly demolished and fragmented building rubble should be considered The translation of this general problem into terms of materials science is possible by forming clear ideas of adhesion and cohesion the whole process of demolition fragmentation and recycling or re use of concrete is to break the bonding forces between atoms and molecules and to form new bonds across the interfaces of various particles of either the same nature or a different nature

Recycling of Demolished Concrete and Masonry T.C. Hansen,1992-05-28 This new RILEM report contains state of the art reviews on three topics recycling of demolished concrete recycling of masonry rubble and localized cutting by blasting of concrete It has been compiled by an international RILEM Committee and draws on research and practical experience worldwide

Re-use of Construction and Demolition Waste in Housing Developments Vivian M. Tam,Vivian W. Y. Tam,Chi Ming Tam,2008 Most books available in the market related to this area consider the use of recycled aggregate only for low grades of concrete applications This book presents a thorough analysis of structural and high grade concrete applications The use of recycled aggregate concrete is the new trend in construction

Demolition and Reuse of Concrete and Masonry E.K. Lauritzen,1993-10-07 This book forms the Proceedings of the Third International RILEM Symposium in Odense Denmark in October 1993 It includes reviews and reports of recent developments in the fields of demolition techniques and reuse of waste building materials and focusses on the integration of demolition and recycling operations in the construction and housing industry

Recycling Concrete Construction and Demolition Wastes Omar Farahat Hassanein,American University in Cairo. Department of Construction and Architectural Engineering,2014 Abstract The construction industry is a very dynamic field Every day new technologies and methods are invented to speed up the process and increase its efficiency Efficiency briefly is the measure of the resources used with regards to the actual product being produced Hence if a project uses fewer resources it will become more efficient This thesis examines the recycling of concrete construction and demolition C stationary mobile and traditional plant settings All plant types are designed and compared for different types of recycling projects The machinery used in the plant is being analyzed technically and financially according to capacity production rate country of origin etc All the data is extracted from experts in the field and evaluated by university professors and engineers from relevant disciplines The data is gathered from national and international sources through numerous interviews meetings and site visits The following visits were conducted to extract information to be used in the model a site visit to a stationary plant in Madrid Spain recycling research center in Madrid Spain site visit to a mobile plant

in Paris France interview with director of recycled aggregates Paris France and traditional plant in 6th of October Giza Egypt These findings are gathered and grouped to obtain a comprehensive cost benefit financial model to demonstrate the feasibility of constructing a concrete recycling plant in Egypt The type currently being implemented is the traditional one however according to the calculations of the model presented in this thesis the mobile type has generated the most profits among the other types stationary and traditional Furthermore a sensitivity analysis is conducted to provide verification on the model The exercise of the sensitivity analysis is a change in parameters and then the results are logically tested to verify the correctness of the model Therefore the sensitivity analysis is conducted on the mobile type by selecting and maneuvering the expense with the highest impact by 20% 10% 10% and 20% The sensitivity analysis showed that administrative salaries and cost of goods sold expenses had the most impact on the model Nevertheless the case study is conducted to validate the model The case study at hand is the traditional plant of 50 TPH in 6th of October Giza Egypt The plant s actual revenues expense and profits are compared with the same result produced from the model The actual results available are for the first three years They are close to the forecasted results more discussion is available in text Moreover a developed user friendly model specialized to forecast revenues expenses and profits is available in soft copy to be used by any user to help him her in taking decisions related to his her investment In addition a recommendation is presented to guide investors and contractors when choosing the suitable and most profitable type of equipment based on the project type

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