

Concrete Technology For A Sustainable Development In The 21st Century

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How to make concrete greenConcrete Technology For A Sustainable Concrete technology for a sustainable development in the 21st century focuses on the problems and challenges for the concrete industry today and in the future with particular emphasis on environmental consciousness. Primary topics include: the improvement of concretes service life to ease technical and economical problems and the waste of natural resources; environmentally friendly concrete production including new production methods and recycling materials; and actually using concrete to ...

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The American Concrete Institute. Founded in 1904 and headquartered in Farmington Hills, Michigan, USA, the American Concrete Institute is a leading authority and resource worldwide for the development, dissemination, and adoption of its consensus-based standards, technical resources, educational programs, and proven expertise for individuals and organizations involved in concrete design ...

Concrete Technology for Sustainable Development

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Minimising the environmental impact and energy- and CO 2 -intensity of concrete used for construction is increasingly important as resources decline and the impact of greenhouse emissions becomes more evident. Thus, it is logical to use life cycle and sustainable engineering approaches to concrete mix design.

Properties of sustainable concrete containing fly ash ...

Revolutionise Hole Making in Concrete. SIG Performance Technology has signed an exclusive agreement to bring to market the revolutionary InnoGain – a new range of patented products which provides a cost effective, efficient and sustainable alternative to making through and anchor holes in concrete – and fundamentally removes the need for drilling on-site.

Innovation & New Technology

"Concrete Technology for a Sustainable Development in the 21st Century focuses on the problems and challenges for the concrete industry today and in the future with particular emphasis on environmental consciousness."

Concrete technology for a sustainable development in the 21st century focuses on the problems and challenges for the concrete industry today and in the future with particular emphasis on environmental consciousness. Primary topics include: the improvement of concretes service life to ease technical and economical problems and the waste of natural resources; environmentally friendly concrete production including new production methods and recycling materials; and actually using concrete to solve environmental problems, for example through the containment of hazardous waste. The book is the result of the international workshop held in Lofoton, Norway. With very select contributions from the most distinguished international professional experts, this book provides a basic framework and guidelines for national and international bodies.

Production of Portland cement is responsible for about seven percent of the world ' s greenhouse gas emissions. The pressure to make the production of concrete more sustainable, or "greener", is considerable and increasing. This requires a wholesale shift in processes, materials and methods in the concrete industry. Pure Portland cement will need to be replaced by more complex binary, tertiary or even quaternary binders, including other types of cementitious materials. We can expect an increasing use of high performance concrete, primarily because of its high sustainability and durability. Much more attention will have to be paid to the proper curing of the concrete if we want to improve its life expectancy. Presenting the latest advances in the science of concrete this book focusses particularly on sustainability, durability, and economy. It explores the potential for increased sustainability in concrete from the initial mixing right through to its behaviour in complex structures exposed to different types of loads and aggressive environments.

Cement-based concrete has excellent properties as a construction material, and the raw materials of cement rocks, and limestone and clay are bountiful. Yet its production generates high quantities of CO2, making it a potentially unsustainable material. However, there are no alternatives to concrete and steel as basic methods for development of soci

Linking theory to practice, this book provides a better fundamental understanding of Portland cement and hydraulic binders which is necessary to make better concrete. It has been clearly demonstrated that concrete durability is closely linked to its water/binder ratio and proper curing during the first week after casting. In this rigorously presented work, Pierre-Claude A t tcin explains the complexity of the hydration reaction and how to make, use and cure durable and sustainable concrete. This book also details the problems with Portland cement composition at present and outlines the concept of an ideal hydraulic binder which is technically and ecologically efficient, as well as being long-lasting and robust. Binders for Durable and Sustainable Concrete is a practical and innovative reference text which will be particularly relevant to engineers and chemists working in the Portland cement, concrete and admixture industries. This book will also be of interest to academics and graduate-level students in Civil Engineering departments who specialize in Portland cement and concrete technology.

Illustrates the Global Relevance of SustainabilityApplicable to roads, bridges, and other elements of the infrastructure, Green Building with Concrete: Sustainable Design and Construction, Second Edition provides an overview of all available information on the role of concrete in green building. A handbook offering viewpoints from worldwide experts

The two themes of integration of structural and durability design, and integration of concrete technologies in relation to global environmental issues are drawn together in this book. It presents the views of distinguished international researchers and engineers on these key topics as the 21st century approaches. Derived from a workshop on rational design of concrete structures held in Hakodate, Japan, in August 1995, the book provides a focus for debate about the ways in which concrete technologies around the world must respond to the necessity of ensuring that concrete construction achieves higher levels of durability, and about the growing imperative to meet higher environmental standards in concrete production and use.

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.

The Handbook of Sustainable Concrete and Industrial Waste Management summarizes key research trends in recycling and reusing concrete and industrial waste to reduce their environmental impact. This volume also includes important contributions in collaboration with the CRI-TEST Innovation Lab, Naples – Acerra. Part one discusses eco-friendly innovative cement and concrete and reviews key substitute materials. Part two analyzes the use of industrial waste as aggregates and the mechanical properties of concrete containing waste materials. Part three discusses differences between innovative binders, focusing on alkali-activated and geopolymer concrete. Part four provides a thorough overview of the life cycle assessment (LCA) of concrete containing industrial wastes and the impacts related to the logistics of wastes, the production of the concrete, and the management of industrial wastes. By providing research examples, case studies, and practical strategies, this book is a state-of-the-art reference for researchers working in construction materials, civil or structural engineering, and engineers working in the industry. Offers a systematic and comprehensive source of information on the latest developments in sustainable concrete; Analyzes different types of sustainable concrete and innovative binders from chemical, physical, and mechanical points of view; Includes real case studies showing application of the LCA methodology.