

SECOND EDITION



# GREEN BUILDING WITH CONCRETE

Sustainable Design  
and Construction

EDITED BY

GAJANAN M. SABNIS



# Green Building With Concrete Sustainable Design And Construction Second Edition

**Hilal El-Hassan, Mohamed Hamouda**



## **Green Building With Concrete Sustainable Design And Construction Second Edition:**

**Green Building with Concrete** Gajanan M. Sabnis, 2011-10-19 With superior fire resistance strength and a long service life concrete is the most widely used construction material in the world A sustainable material concrete is also easily and affordably reused and rehabilitated The first book to provide an overview of sustainability and concrete Green Building with Concrete Sustainable Design and Construction surveys the material s history in the green building movement and presents state of the art methodologies and best practices From the manufacturing of cement to the rehabilitation of concrete this comprehensive book explains how concrete can be used for sustainable design and construction It offers insight into new technological and social developments guiding the introduction of green buildings and examines the attributes that concrete has to offer the green building movement The text also highlights research on economic analysis particularly life cycle costing to provide a full picture of the economic benefits of concrete Expert contributors from around the world offer diverse viewpoints on global sustainability Topics covered include Principles of sustainable design Benefits of concrete s thermal mass Mitigation of urban heat island effects Surface runoff and the application of pervious concrete for sidewalks and parking areas Reduction of construction waste Leadership in energy and environmental design LEED standards Emphasizing environmental impact and occupational and consumer health and safety this book explains how to make the most of concrete in sustainable design Written for university and concrete industry continuing education courses it also serves as a reference for building owners and industry professionals who recognize the value of green building **Green Building with**

**Concrete** Gajanan M. Sabnis, 2015-06-16 Illustrates the Global Relevance of Sustainability Applicable 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 Green Building with Concrete Gajanan M. Sabnis, 2015-06-16 Illustrates the Global Relevance of Sustainability Applicable 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 *Handbook of Green Building Design and Construction*

Sam Kubba, 2012-10-11 Packed with conceptual sketches and photos real world case studies and green construction details Handbook of Green Building Design and Construction provides a wealth of practical guidelines and essential insights that will facilitate the design of green buildings Written in an easy to understand style the Handbook draws on over 35 years of personal experience across the world offering vital information and penetrating insights into two major building rating systems such as LEED and BREEAM both used extensively in the United States Europe Asia and the Middle East Develop a project schedule that allows for systems testing and commissioning Create contract plans and specifications to ensure building performance A step by step approach for integrating technologies into the different stages of design and execution

**Green Concrete** Pavlo V. Kryvenko,Stanislav Kolisnychenko,2023-03-15 Aggregated Book *Concrete Pavement Design, Construction, and Performance, Second Edition* Norbert J. Delatte,2014-05-22 This second edition of Concrete Pavement Design Construction and Performance provides a solid foundation for pavement engineers seeking relevant and applicable design and construction instruction It relies on general principles instead of specific ones and incorporates illustrative case studies and prime design examples to highlight the material It presents a thorough understanding of materials selection mixture proportioning design and detailing drainage construction techniques and pavement performance It also offers insight into the theoretical framework underlying commonly used design procedures as well as the limits of the applicability of the procedures All chapters have been updated to reflect recent developments including some alternative and emerging design technologies that improve sustainability What s New in the Second Edition The second edition of this book contains a new chapter on sustainability and coverage of mechanistic empirical design and pervious concrete pavements RCC pavements are now given a new chapter The text also expands the industrial pavement design chapter Outlines alternatives for concrete pavement solutions Identifies desired performance and behavior parameters Establishes appropriate materials and desired concrete proportions Presents steps for translating the design into a durable facility The book highlights significant innovations such as one is two lift concrete pavements precast concrete pavement systems RCC pavement interlocking concrete pavers thin concrete pavement design and pervious concrete This text also addresses pavement management maintenance rehabilitation and overlays *Sustainability in the Hospitality Industry* Willy Legrand,Joseph S. Chen,Gabriel C. M. Laeis,2022-07-29 This foundational textbook investigates the economic environmental and social sustainability issues facing the hospitality industry today and explores ideas solutions and strategies of how to manage operations in a sustainable way This updated fourth edition features new content including Research on nature based solutions and zero carbon approaches in facilities technologies for energy water and waste management changes in consumer behaviour and environmental and social impacts of food production A new chapter on employees diversity inclusion and well being in the industry A new chapter on the challenges of operating in the Global South More than 100 international industry case studies and focused info boxes New practical exercises discussion questions and research project ideas based on real life sustainability scenarios Accessible and comprehensive this book is essential reading for all students as well as current and future managers in the hospitality industry *Handbook of Green Building Design and Construction* Sam Kubba,2016-10-15 Handbook of Green Building Design and Construction LEED BREEAM and Green Globes Second Edition directly addresses the needs of building professionals interested in the evolving principles strategies and concepts of green sustainable design Written in an easy to understand style the book is updated to reflect new standards to LEED In addition readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure data centers warehouses and existing buildings Provides vital information and penetrating insights into three of the top

Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies that draws on over 35 years of personal experience from across the world

*Building Construction Illustrated* Francis D. K. Ching, 2025-02-05 The leading introduction to the principles and processes of building construction returns Building construction covers the entire process of creating residential commercial and industrial structures from planning to execution It s an evolving field with new technologies continuously being brought to bear and new sustainable practices emerging every day For over four decades Building Construction Illustrated has served as the leading introduction to building construction for all professionals involved in the process from architects to interior designers Richly illustrated and incorporating the latest advancements and best practices it remains the essential volume for students and working professionals alike Readers of the seventh edition of Building Construction Illustrated will also find New or expanded coverage of resilient design building systems new finish materials and more The latest updates to codes and standards requirements including IBC LEED and CSI MasterFormat In depth yet accessible treatment appropriate for all levels of prior knowledge Building Construction Illustrated is ideal for students in architecture civil and structural engineering construction management and interior design as well as practicing professionals across the building trades

Sustainable Construction Materials and Technologies Yoon-Moon Chun, Peter Claisse, Tarun R. Naik, Eshmaiel Ganjian, 2020-11-26 The construction materials industry is a major user of the world s resources While enormous progress has been made towards sustainability the scope and opportunities for improvements are significant To further the effort for sustainable development a conference on Sustainable Construction Materials and Technologies was held at Coventry University Coventry U K from June 11th 13th 2007 to highlight case studies and research on new and innovative ways of achieving sustainability of construction materials and technologies This book presents selected important contributions made at the conference Over 190 papers from over 45 countries were accepted for presentation at the conference of which approximately 100 selected papers are published in this book The rest of the papers are published in two supplementary books Topics covered in this book include sustainable alternatives to natural sand stone and Portland cement in concrete sustainable use of recyclable resources such as fly ash ground municipal waste slag pozzolan rice husk ash silica fume gypsum plasterboard drywall and lime in construction sustainable mortar concrete bricks blocks and backfill the economics and environmental impact of sustainable materials and structures use of construction and demolition wastes and organic materials straw bale hemp etc in construction sustainable use of soil timber and wood products and related sustainable construction and rehabilitation technologies **Pervious Concrete Pavements** Hilal El-Hassan, Mohamed

Hamouda, 2025-01-22 Pervious Concrete Pavements Design Performance and Applications provides both a comprehensive theoretical background and practical experiences on the performance of pervious concrete The book explores the effects of various materials and process parameters on the mechanical durability and hydraulic properties of pervious concrete while

also examining their hydrological design and water quality The ability to upscale the use of pervious concrete in construction applications is investigated through field evaluation lifecycle assessment and performance prediction using artificial intelligence The volume presents the latest findings in pervious concrete research filling a gap in previous relevant publications Addresses both pervious concrete design and performance evaluation Follows a theory to practice approach Provides a one stop shop covering the mechanical durability and hydraulic aspects of pervious concrete made with a range of materials

**Sustainable Construction** Charles J. Kibert, 2008 Sustainable Construction uses the latest US Green Building Council's Leadership in Energy and Environmental Design standard to explain the best practices in building procurement and delivery systems

**Using the Engineering Literature, Second Edition** Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links on a topic engineers need the best information information that is evaluated up to date and complete Accurate vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award winning first edition of Using the Engineering Literature used a roadmap analogy we now need a three dimensional analysis reflecting the complex and dynamic nature of research in the information age Using the Engineering Literature Second Edition provides a guide to the wide range of resources available in all fields of engineering This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering The information age has greatly impacted the way engineers find information Engineers have an effect directly and indirectly on almost all aspects of our lives and it is vital that they find the right information at the right time to create better products and processes Comprehensive and up to date with expert chapter authors this book fills a gap in the literature providing critical information in a user friendly format

**LEED Practices, Certification, and Accreditation Handbook** Sam Kubba, 2009-09-23 Adopted in the United States and a number of other countries LEED certification is the recognized standard for measuring building sustainability Achieving LEED personal certification or project certification is the best way to demonstrate that the project is truly green Written by an architect with over 30 years of international experience this book provides architects designers building owners and construction engineers with an easy to understand guide to the nuts and bolts of LEED project and personal certification Written in plain and easy to understand language this hands on book is designed to assist readers with all aspects of LEED certification The handbook follows the rigorous third party commissioning process beginning with basic LEED concepts and then carefully explains LEED documentation and technical requirements along with its standards professional accreditation and codes The handbook provides readers with design strategies for sustainable site selection and design process for high performance building and commissioning Other important topics include green materials and products selection as well as strategies for

ensuring Indoor Environmental Quality IEQ water efficiency and sanitary waste disposal This handbook also offers readers a multitude of forms with expert guidance for their completion Clear and authoritative in scope LEED Practices Certification and Accreditation Handbook provides architects builders owners construction managers and engineers with a reference that will help them to offer their clients peers and the public at large compelling proof that they have achieved their projects environmental goals and that the building is performing as designed Instruction for completing LEED checklist and forms Detailed explanation of the third party commissioning process Explains LEED documentation technical requirements Topics include green materials and products selection *The Natural Building Companion* Jacob Deva Racusin,Ace McArleton,2012 Natural buildings not only bring satisfaction to their makers and joy to their occupants they also leave the gentlest footprint on the environment In this complete reference to natural building philosophy design and technique Jacob Deva Racusin and Ace McArleton walk builders through planning and constructio The Natural Building Companion provides the tools necessary to understand basic principles of building science including structural and thermal engineering and hydrodynamics This guide offers thorough up to date and advanced installation details and performance characteristics of straw bale straw clay woodchip clay and cellulose wall systems as well as earthen and stone wall systems and a variety of framing roofing flooring mechanical system and finishing options This fully illustrated volume informs professionals making the transition from conventional building homeowners embarking on their own construction or green builders who want comprehensive guidance on natural building options The book part of the The Yestermorrow Design Build Library is accompanied by an instructional DVD **Sustainability in Engineering Design and Construction** J. K. Yates,Daniel Castro-Lacouture,2018-09-03 Successfully Measure the Benefits of Green Design and Construction Sustainability in Engineering Design and Construction outlines the sustainable practices used in engineering design and construction operations for all types of engineering and construction projects Aimed at ushering the engineering and construction industry into embracing sustainable practices and green construction techniques this book addresses sustainability in engineering design and construction operations from a historical and global perspective and delves into specific sustainability concepts and processes The book explains the concepts of sustainable development corporate social responsibility CSR the Dow Jones Global Sustainability Index DJGSI key performance indicators KPIs corporate sustainability and the triple bottom line economic environmental and social values in design and construction Relevant to sustainability in every facet of engineering and construction it also covers life cycle environmental cost analysis discusses sustainable engineering and site selection the economic considerations evaluated when making sustainability decisions and explains how to measure and quantify sustainable performance and apply these practices in the real world It also covers project and corporate level sustainability practices sustainable construction materials and processes sustainable heavy construction equipment traditional and alternative energy sources provides implementation resources for starting and evaluating

sustainability programs and includes a checklist for measuring the sustainability of construction operations The text contains detailed information on sustainable construction materials and processes heavy construction equipment and traditional and alternative energy sources It presents information on sustainable designs selecting sustainable sites designing for passive survivability designing for disassembly and the ISO 14 000 standards It provides implementation resources for starting and evaluating sustainability programs and a checklist for measuring the sustainability of construction operations In addition it provides definitions of sustainability terms and expressions as well as case studies examples discussion questions and a list of supplemental references at the end of each chapter This book provides information on Definitions for sustainability terms Sources for locating global sustainability requirements Current sustainability issues Environmental laws related to sustainability and their implications Sustainable design Life cycle cost assessment models Sustainable practices currently being used in the engineering and construction E C industry Corporate level sustainability practices Project level sustainability practices Global sustainability trends and implications Sustainable materials Sustainable heavy construction equipment Traditional and alternative energy sources LEED Green Building Rating System Sustainability organizations and certification programs Sustainability implementation resources A summary of sustainable engineering design and construction

*Life-Cycle Greenhouse Gas Emissions of Commercial Buildings* Cuong N. N. Tran, Vivian W. Y. Tam, Khoa N. Le, 2021-07-12 This book develops a model to evaluate and assess life cycle greenhouse gas emissions based on typical Australian commercial building design options It also draws comparisons between some of the many green building rating tools that have been developed worldwide to support sustainable development These include Leadership in Energy and Environmental Design LEED by the United States Green Building Council USGBC Building Research Establishment Environmental Assessment Method BREEAM by the Building Research Establishment Comprehensive Assessment System for Building Environmental Efficiency CASBEE by the Japanese Sustainable Building Consortium and Green Star Environmental Rating System by the Green Building Council of Australia Life cycle assessment LCA life cycle energy consumption and life cycle greenhouse gas emissions form the three pillars of life cycle studies which have been used to evaluate environmental impacts of building construction Assessment of the life cycle greenhouse gas emissions of buildings is one of the significant obstacles in evaluating green building performance This book explains the methodology for achieving points for the categories associated with reduction of greenhouse gas emissions in the Australian Green Star rating system The model for the assessment uses GaBi 8 7 platform along with Visual Basic in Microsoft Excel and shows the relationship between the building s energy consumption and greenhouse gas emissions released during the lifetime of the building The data gathered in the book also illustrates that the green building design and specifications are becoming more popular and are being increasingly utilized in Australia This book is important reading for anyone interested in sustainable construction green design and buildings and LCA tools

**Sustainable Airport Construction Practices**, 2011 At head of title Airport



Cooperative Research Program      *BioEnergy and BioChemicals Production from Biomass and Residual Resources* Dimitar Karakashev, Yifeng Zhang, 2019-02-18 This book is a printed edition of the Special Issue BioEnergy and BioChemicals Production from Biomass and Residual Resources that was published in *Energies*      Sustainable Education and Development—Green Buildings Clinton Aigbavboa, Wellington Thwala, Joseph N. Mojekwu, Lawrence Atepor, Emmanuel Adinyira, Gabriel Nani, Emmanuel Bamfo-Agyei, 2024-11-22 This book is Volume 2 of the proceedings of 2023 Sustainable Education and Development Research Conference This volume concentrates on papers in the area of green buildings Despite considerable progress more than 700 million people worldwide still lack access to electricity and around 2.4 billion people continue to use harmful and polluting fuels for cooking While efforts have been made to promote renewable energy and energy efficiency they have not been fast enough to achieve Sustainable Development Goal 7 Adding to the challenge the ongoing war in Ukraine has contributed to rising global energy prices and heightened energy insecurity in Europe In response to the energy crisis some European countries are planning to accelerate the transition to renewables and increase investments in clean energy and energy efficiency However others are considering a resurgence of coal which poses a risk to the overall green transition Between 2010 and 2020 the percentage of the global population with access to electricity increased from 83% to 91% with 1.3 billion people gaining access Nevertheless this leaves approximately 733 million people still without electricity and most of them reside in sub-Saharan Africa Achieving universal access by 2030 the annual growth rate in access needs to accelerate from 0.5 percentage points to 0.9 percentage points necessitating significant efforts in low income fragile and conflict affected countries In 2020 69% of the global population had access to clean cooking fuels and technologies While more than half of those without access to clean cooking fuels live in Asia the 20 countries with the lowest percentage of people having access to clean cooking were predominantly least developed countries in Africa The share of renewable sources in total final energy consumption reached 17.7% globally in 2019 just slightly higher than the figure for 2015 The electricity sector leads in the adoption of renewables accounting for 26.2% of total final energy consumption in 2019 while the heat and transport sectors have made limited progress Global primary energy intensity defined as global total energy supply per unit of GDP improved from 5.6 megajoules per dollar 2017 purchasing power parity in 2010 to 4.7 megajoules in 2019 However the rate of improvement 1.6% per year on average since 2015 falls short of the 3.2% annual rate needed to reach Sustainable Development Goal 7.3 International financial flows to support clean and renewable energy in developing countries reached 10.9 billion in 2019 a 23.6% decrease from 2018 This decline occurred even before the onset of the COVID 19 pandemic Over a longer five year moving average average annual commitments decreased for the first time since 2008 from 17.5 billion in 2014 to 16.6 billion in 2019 Although developing countries achieved a record of 245.7 watts per capita in installed renewable energy generating capacity in 2020 small island developing States least developed countries and landlocked developing countries have lagged behind It would take least developed countries and landlocked

developing countries nearly 40 years and small island developing States almost 15 years to reach the same level of progress as the average developing country in 2020 The 2023 SEDRC conference titled Sustainable Development and Education aims to redefine the understanding of research in the continent s development and the role of researchers The conference focusses on applied research discussions and its dissemination Researchers from research institutions academicians postgraduate students politicians and industry representatives will be the primary audience for the conference proceedings

## Enjoying the Tune of Phrase: An Emotional Symphony within **Green Building With Concrete Sustainable Design And Construction Second Edition**

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