



# THE SUSTAINABLE BUILT ENVIRONMENT

**Technical, Managerial, Legal and Economic Aspects**

**Edited by Begum Sertyesilisik  
and Ahmed Al-Shamma'a**

# Sustainable Built Environment Technical Managerial

**Begum Sertyesilisik,Ahmed Al  
Shamma'a**



## **Sustainable Built Environment Technical Managerial:**

*The Sustainable Built Environment* Begum Sertyesilisik,Ahmed Al Shamma'a,2016 The text adopts an interdisciplinary approach to address the huge challenges in creating a sustainable built environment In a broad survey of critical issues it assesses procurement cost modelling and management sustainable buildings low and zero carbon technologies sustainability in utilities and the law

*The Sustainable Built Environment* Begum Sertyesilisik,Ahmed Al Shamma'a,2015-11-27 The text adopts an interdisciplinary approach to address the huge challenges in creating a sustainable built environment In a broad survey of critical issues it assesses procurement cost modelling and management sustainable buildings low and zero carbon technologies sustainability in utilities and the law

*Design and Management of Sustainable Built Environments* Running Yao,2013-03-12 Climate change is believed to be a great challenge to built environment professionals in design and management An integrated approach in delivering a sustainable built environment is desired by the built environment professional institutions The aim of this book is to provide an advanced understanding of the key subjects required for the design and management of modern built environments to meet carbon emission reduction targets In Design and Management of Sustainable Built Environments an international group of experts provide comprehensive and the most up to date knowledge covering sustainable urban and building design management and assessment The best practice case studies of the implementation of sustainable technology and management from the BRE Innovation Park are included Design and Management of Sustainable Built Environments will be of interest to urban and building designers environmental engineers and building performance assessors It will be particularly useful as a reference book for undergraduate and postgraduate students in the built environment field

*Design Management for Sustainability* Stephen Emmitt,2017-07-28 Building on the special edition Aspects of Design Management Volume 3 1 2007 this publication brings together the rapidly developing field of design management with that of environmental sustainability Eight articles drawn from around the world help to provide some critical insights into the relationship between ecological sustainability and the application of design management in a number of different contexts Contributions range from early policy decisions and public procurement options to corporate social responsibility of architects and the promotion of materials and products to specifiers to encouraging change and a design process evaluation method to investigations into the role and contribution of construction design managers and facilities managers to a sustainable built environment Collectively the articles provide a unique multi disciplinary contribution to the theoretical development of the design management field as well as guidance on the practical application of methods and tools

*Collaboration and Integration in Construction, Engineering, Management and Technology* Syed M. Ahmed,Paul Hampton,Salman Azhar,Amelia D. Saul,2020-12-21 This book gathers papers presented at the 11th International Conference on Construction in the 21st Century held in London in 2019 Bringing together a diverse group of government agencies academics professionals and students the book addresses issues related to construction safety

innovative technologies lean and sustainable construction international construction improving quality and productivity and innovative materials in the construction industry In addition it highlights international collaborations between various disciplines in the areas of construction engineering management and technology The book demonstrates that as the industry moves forward in an ever complex global economy multi national collaboration is crucial and its future growth will undoubtedly depend on international teamwork and alliances

Circular Economy Design and Management in the Built Environment Luís Bragança, Philip Griffiths, Rand Askar, Adriana Salles, Viorel Ungureanu, Katerina Tsikaloudaki, Diana Bajare, Gabriel Zsembinski, Meri Cvetkovska, 2024-10-31 This open access book offers a comprehensive exploration of Circular Economy Design and Management within the Built Environment presenting a critical review of the current state of the art Going through multi level approaches from material usage to urban planning it meticulously examines strategies for circular building design criteria and indicators for circularity Additionally it explores practical tools and frameworks as well as roles and relationships of stakeholders along the entire value chain Through insightful case studies and critical analysis readers gain a deep understanding of circularity principles and applications circularity management models and feedback systems sustainable practices and the integration of circularity into technological advancements and digital tools such as BIM The importance of this book lies in addressing pressing challenges in contemporary architecture and construction providing a roadmap for sustainable circular solutions It tackles the critical need to transition from linear to circular practices emphasising resource efficiency waste reduction and the longevity of structures By offering practical insights and highlighting successful implementations the book aims to guide architects civil engineers designers sustainability professionals and policymakers towards informed decision making in creating environmentally conscious built environments Designed for these professionals and researchers this book serves as a valuable resource for anyone passionate about reshaping the future of our built spaces with a focus on circularity and environmental responsibility

Contemporary Trends in the Regenerative and Sustainable Built Environment Marjan Sarshar Driscoll, Anton Ianakiev, Begum Sertyesilisik, 2015

Sustainability Certifications, Labels and Tools in the Built Environment Francesco Asdrubali, Umberto Berardi, 2025-06-30 This book is aimed at covering all aspects of the evaluation certification and reduction of the energy and carbon footprint of the built environment from the scale of the city and its neighbourhoods to the building level and finally to the level of single building materials and components Many protocols tools and labels have been proposed in recent years both at international and local levels and the aim of the book is to classify describe and discuss all the different approaches and options The chapters offer a comprehensive up to date and critical review of all the different certification methods that have been proposed at different levels in the building sector The first chapter introduces the topic and its importance providing data on the impact of the building sector and the construction industry The following chapters are dedicated respectively to tools and protocols for cities and neighbourhood sustainability assessment tools and protocols for buildings

sustainability assessment and certification and for building materials and components Finally this book includes an overview of the legislation and standards in the field and case studies to exemplify the application of the different tools and labels This is a key reference for decision makers researchers scholars students and professionals approaching research and work in the field of energy and environmental impact of the building sector be they engineers architects planners owners developers or facility managers

**Technology, Design and Process Innovation in the Built Environment** Peter Newton,Keith Hampson,Robin Drogemuller,2009-02-09 Making buildings and infrastructure more sustainable represents a key and global challenge This presents the results of research from the Australia Co operative Research Centre for Construction Innovation covering four themes applied to regeneration as well as to new build Sustainable Materials and Manufactures Virtual Design Construction and Management Integrating Design Construction and Facility Management over the Project Life Cycle and Integration across spatial scales

Water Management Iqbal M. Mujtaba,Thokozani Majozi,Mutiu Kolade Amosa,2018-11-05 Exponential growth in population and improved standards of living demand increasing amount of freshwater and are putting serious strain on the quantity of naturally available freshwater worldwide Water Management Social and Technological Perspectives discusses developments in energy efficient water production management wastewater treatment and social and political aspects related to water management and re use of treated water It features a scientific and technological perspective to meeting current and future needs discussing such technologies as membrane separation using reverse osmosis the use of nanoparticles for adsorption of impurities from wastewater and the use of thermal methods for desalination The book also discusses increasing the efficiency of water usage in industrial agricultural and domestic applications to ensure a sustainable system of water production usage and recycling With 30 chapters authored by internationally renowned experts this work offers readers a comprehensive view of both social and technological outlooks to help solve this global issue

**Sustainable Built Environment Through Management and Technology** International Islamic University Malaysia. Kulliyyah of Architecture and Environmental Design,2004 *Sustainable Built Environment - Volume I* Fariborz Haghighat,Jong-Jin Kim,2009-11-10 Sustainable Built Environment is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Environmental conservation and technological innovation are two principal forces that drive the building industry toward the future Technological innovation offers many opportunities to make buildings more dynamic and comfortable and occupants more comfortable and productive The necessity of environmental conservation on the other hand compels all types of developments and human activities to be environmentally responsive The content of the Theme on Sustainable Built Environment is organized with state of the art presentations covering several topics Urban Design Emerging Issues in Building Design Environment Energy and Health in Housing Design Culture Management Strategies and Policy Issues in the Sustainable Built Environment Using Technology to Improve the

Quality of City Life Urban and Regional Transportation which are then expanded into multiple subtopics each as a chapter These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Advances in Sustainable Living in the Built Environment Zakiah Wan Ismail (Wan),Azhani Abd Manaf,2021 **Green Building Technologies and Materials II** Zhi Li Cheng,Li Qun Guo,Jing Wu,2013-05-14 Selected peer reviewed papers from the 2nd International Conference on Green Buildings Technologies and Materials GBTM 2012 December 27 28 Wuhan China **Environment and Planning** ,2002 **Ife Journal of Environmental Design and Management** ,2010-05 **Sustainable Built Environment** Deepak Bajaj,Thayaparan Gajendran,Sanjay Patil,2024-02-22 This book presents the select proceedings of International Conference on Sustainable Built Environment ICSBE 2023 It discusses the issues of sustainability and resilience in all types of building projects construction projects operational building and infrastructure projects within urban regions of the world The key themes covered in this book are sustainable urban planning sustainable construction real estate housing net zero built environment climate change policy legal framework climate finance technology and innovation toward decarbonization of the built environment This book is useful for researchers and professionals working in the fields of construction management built environment and allied fields **2nd Annual Conference, School of Environmental Technology, Federal University of Technology, Minna** ,2008 **Management and Innovation for a Sustainable Built Environment** ,2011 Offshore Oil and Gas Directory CMP Information,2003-10-06 This directory provides in depth information on a range of suppliers and services including named contacts within the industry The comprehensive nature of its coverage ensures high usage by operating companies and their branches throughout the world plus offshore specifiers and contractors It is aimed for use by key decision makers in all sectors of the industry including technical engineers production managers and buyers senior directors and managing directors

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