



# SMART & SUSTAINABLE BUILT ENVIRONMENTS

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# Smart And Sustainable Built Environments

**Weisheng Lu, Chimay J. Anumba**



## **Smart And Sustainable Built Environments:**

Smart and Sustainable Built Environments Jay Yang, Peter S. Brandon, Anthony C. Sidwell, 2008-04-15 This book brings together a group of international specialists to explore the current state of the art and future potential for encouraging developing and implementing smart and sustainable built environment strategies. It covers a broad spectrum of issues ranging from technological advancement through the assessment of past experiences to communication and education requirements and future strategies. It provides a snapshot of current methods and technologies for developing smart and sustainable built environment strategies over 30 fully refereed chapters from international experts. It addresses the particular requirements and problems of different areas and climatic regions. *Smart and Sustainable Built Environments*, 2007

Sustainable development is rapidly becoming a global phenomenon the remit of which encompasses a wide range of professions and societal interest groups. This collection of papers from the CIBT ask Group 55 smart and sustainable built environments presents key findings to date on a wide range of current research and practice in this emerging field in order to promote awareness, understanding and synergy. The first five papers in this e-book focus directly on sustainability while the final three papers identify cross-cutting themes as associated with tools, processes and culture. **Smart and Sustainable Cities and Buildings** Rob Roggema, Anouk Roggema, 2020-05-11 This book brings together the papers presented at the Smart and Sustainable Built Environments Conference 2018 SASBE. This latest research falls into two tracks: smart and sustainable design and planning cities and the technicalities of smart and sustainable buildings. The growth of smart cities is evident but not always linked to sustainability. This book gives an overview of the latest academic developments in increasing the smartness and sustainability of our cities and buildings. Aspects such as inclusivity, smart cities, place and space, the resilient city, urbanity and urban ecology are prominently featured in the design and planning part of the book while energy, educational buildings, comfort, building design, construction and performance form the sub-themes of the technical part of the book. This book will appeal to urban designers, architects, urban planners, smart city designers and sustainable building experts. **Proceedings of the International Conference on Smart and Sustainable Built Environment (SASBE 2024)** Ali GhaffarianHoseini, Amirhosein Ghaffarianhoseini, Farzad Rahimian, Mahesh Babu Purushothaman, 2025-04-19 This book presents peer-reviewed articles from the International Conference of Sustainable Development and Smart Built Environments SDSBE2024 held from 6-8 Nov at Auckland, New Zealand. It encapsulates cutting-edge research in Sustainable Development and Smart Built Environments featuring global scholars. Encompassing diverse themes, the book explores sustainable urban development, governance and policy, emphasizing urban greening and climate resilience. It delves into innovative approaches for sustainable transport, intelligent infrastructure and community well-being. The integration of Data Science, AI and IoT for optimizing built environments is a focal point alongside advancements in digital twins and OpenBIM. Social aspects including equity and indigenous perspectives are explored along with health considerations in urban settings.

The proceedings serve as a comprehensive resource reflecting the multifaceted advancements driving sustainable and smart urban futures

**Proceedings of the International Conference on Sustainable Development and Smart Built Environments** Ali GhaffarianHoseini, Amirhosein G. haffarianHoseini, Farzad Rahimian, Mahesh Babu

Purushothaman, 2025-04-12 This book presents peer reviewed articles from the International Conference of Sustainable Development and Smart Built Environments SDSBE2024 held from 6-8 Nov at Auckland New Zealand It encapsulates cutting edge research in Sustainable Development and Smart Built Environments featuring global scholars Encompassing diverse themes the book explores sustainable urban development governance and policy emphasizing urban greening and climate resilience It delves into innovative approaches for sustainable transport intelligent infrastructure and community well being The integration of Data Science AI and IoT for optimizing built environments is a focal point alongside advancements in digital twins and OpenBIM Social aspects including equity and indigenous perspectives are explored along with health considerations in urban settings The proceedings serve as a comprehensive resource reflecting the multifaceted advancements driving sustainable and smart urban futures

*Sustainable Built Environment and Urban Growth Management* Wann-Ming Wey, 2020-02-21

Nowadays the sustainable built environment planning in most cities has come to a turning point as the growth in traffic and population has become a serious concern and put tremendous pressure on both the environment and people in these cities It is therefore important to find new ways or lifestyles such as compact city transit oriented development TOD formulations that are more flexible inclusive and sustainable Furthermore for the sustainable built environment and urban growth management not only should the growth management principles which include smart growth sustainable growth and inclusive growth be taken into account but innovative smart planning strategies such as mixed use design green transport and new urbanism are also utilized in planning sustainable built environments in order to prevent the urban sprawl development that has occurred

Sustainable Futures in the Built Environment to 2050 Tim Dixon, John Connaughton, Stuart Green, 2018-01-09 Brings together leading thinking on issues of new professional practice and on the future of a sustainable built environment This book focuses on both construction and development issues and examines how we can transition to a sustainable future by the year 2050 bringing together leading research and practice at building neighbourhood and city levels It deftly analyses how emerging socio economic technological and environmental trends will influence the built environment of the future The book covers a broad spectrum of interests across the scales of buildings communities and cities including how professional practice will need to adapt to these trends The broader context is provided by an analysis of emergent business models and the changing requirements for expert advice from clients Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development features chapters covering data and trends including historical data and UK and international case studies policies and practice related to the field current state of scientific understanding key challenges key technological advances including disruptive

and systemic technological innovations change issues and critical uncertainties and future visions It provides A strong conceptual framework based on a Foresight approach Discussion of the key data and trends that underpin each chapter Coverage of both construction and property development Specially commissioned chapters by academics and practitioners A synthesis of the main findings in the book and key insights for the future to 2050 Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development is an important book for postgraduate students and researchers construction real estate and property development specialists engineers planners architects foresight and futures studies specialists and anyone involved in sustainable buildings **Sustainable Building for a Cleaner**

**Environment** Ali Sayigh, 2018-07-12 This book contains selected papers presented during the bi annual World Renewable Energy Network s Med Green Forum aimed at the international community as well as Mediterranean countries This forum highlights the importance of growing renewable energy applications in two main sectors Electricity Generation and the Sustainable Building Sector In depth chapters highlight the most current research and technological breakthroughs covering a broad range of renewable energy technologies and applications in all sectors for electricity production heating and cooling agricultural applications water desalination industrial applications and for the transport sectors Recent Developments in Sustainable Built Environment Deepak Bajaj, 2026-01-01 This book presents the select proceedings of the International Conference on Sustainable Built Environment ICSBE 2024 It comprehensively explores the decarbonization of the built environment and delves into sustainable urban planning policy and design to reduce carbon emissions enhance liveability and foster resilience in cities The book showcases the best practices case studies and challenges in transforming existing buildings into sustainable and energy efficient structures through rehabilitation repositioning and retrofitting measures The book also highlights the role of digital technologies like Building Information Modeling BIM the Internet of Things IoT and data analytics in optimizing resource utilization monitoring energy consumption and improving construction project management for enhanced sustainability This book also explores how Sustainable Development Goals SDGs Environmental Social and Governance ESG principles and net zero initiatives are driving a transformative change in the real estate and construction industry This book will equip researchers practitioners and policymakers with innovative solutions and practical guidance to aid their efforts in advancing sustainability within the real estate and construction sector **Smart**

**Technologies and Design For Healthy Built Environments** Ming Hu, 2020-09-10 Smart Technologies and Design for Healthy Built Environment connects smart technology to a healthy built environment that builds upon the sustainable building movement It provides an overall summary of the state of the art technologies that are applied in the built environment The book covers a broad spectrum of smart technology categories ranging from dynamic operability energy efficiency self regulating and self learning systems and responsive systems The foreseeable challenges that are associated with smart technologies are discussed and outlined in the book Firstly this book provides a snapshot of state of the art smart

technologies being applied in the built environment. It covers a broad spectrum of smart technology categories ranging from dynamic operability, energy efficiency, self-regulating and self-learning systems to responsive systems. Secondly, this book provides an in-depth analysis of the four primary components of health: biological, physical, physiological, and psychological. Their effects on wellbeing and cognitive performance are introduced as well. Thirdly, it connects smart technologies to those health-influencing factors by reviewing three completed smart building projects. This book can also serve as a basis for education and discussion among professionals and students of diverse backgrounds who are interested in smart technologies, smart building, and healthy building. *Smart Technologies and Design for Healthy Built Environment* serves as the basis for education and discussions among professionals and students who are interested in smart technologies, smart building, and healthy building as it bridges the gap between smart technologies and a healthy built environment. The book also provides a foundation for anyone who is interested in the impact of smart technology on the health of the built environment. *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. *Facilitating Inclusivity in Multi-, Inter-, and Transdisciplinary Sustainable Built Environment Research in Emerging Economies* Clinton Aigbavboa, Bankole Awuzie, Douglas Aghimien, Ayodeji Emmanuel Oke, Temitope Omotayo, 2026-01-01. This book gathers papers from the 1st Global Forum for Sustainable Built Environment Research Conference SURE Built 1. This year's event has the theme Facilitating Inclusivity in Multi-Inter and Transdisciplinary Sustainable Built Environment Research in Emerging Economies and was held virtually on the 4th-5th of September 2025. The rationale behind the conference is rooted in inclusivity and aligned with a broader mission to promote sustainable development in line with global goals. This interdisciplinary focus encourages collaboration among architects, engineers, urban planners, environmental scientists, and policymakers, thus creating a comprehensive approach to tackling shared global challenges. *Future Challenges in Evaluating and Managing Sustainable Development in the Built Environment* Peter S. Brandon, Patrizia Lombardi, Geoffrey Q. Shen, 2017-04-05. Future Challenges in Sustainable Development within the Built Environment stimulates and reinterprets the demands of Responsible and Sustainable Development in the Built Environment for future action and development. It examines the methods of evaluation, the use of technology, the creation of new models, and the role of human factors for examining and developing the subject over the next twenty years. *Circular Economy Implementation for Sustainability in the Built Environment* Cobîrzan,

Nicoleta,Muntean, Radu,Felseghi, Raluca-Andreea,2023-10-03 The construction sector plays an essential role in the global economy using many exhaustible natural resources most of which are renewable in low percentages Moving towards a circular economy is essential because optimizing the consumption of materials and energy contributes to the development of an economic system that is independent more competitive and more resilient in the face of economic and social crises and various environmental factors The current take make and dispose model of the economy is unsustainable so a shift in thinking towards a circular economy is necessary This circular economy is an economic model that minimizes the use of natural resources by selecting them intelligently and minimizing the use of raw materials favoring the use of recyclable materials wherever possible while managing the resources used and maintaining and reusing them in the economic system for as long as possible Circular Economy Implementation for Sustainability in the Built Environment emphasizes the need to implement a circular economy model in the built environment and how to create a system that optimizes the use of resources and construction materials while preserving their properties and values Covering topics such as automobile industries lean manufacturing and operation strategy this premier reference source is an excellent resource for engineers construction managers business leaders urban planners students and educators of higher education researchers and academicians

**Industry and Environment ,2003      Sustainable Design for the Built Environment** Rob Fleming,Saglinda H Roberts,Chitsanzo Isaac,2024-11-08 Sustainable Design for the Built Environment marks the transition of sustainable design from a specialty service to the mainstream approach for creating a healthy and resilient built environment This groundbreaking and transformative textbook introduces sustainable design in a clear concise easy to read format This new edition includes fully updated exercises and online resources an increased focus on diversity equity and inclusion in design more international examples perspectives and approaches enhanced full colour visuals and additional resources for further study The book takes the reader deep into the foundations of sustainable design and creates a holistic and integrative approach addressing the social cultural ecological and aesthetic aspects in addition to the typical performance driven goals The first section of this book is thematically structured around the origins principles and frameworks of sustainable design aimed at inspiring a deeper broader and more inclusive view of sustainability The second section examines strategies such as biophilia and biomimicry adaptation and resilience and health and well being including recent developments following the COVID 19 pandemic The third section examines the application of sustainability principles from the global urban district and site building and human scales illustrating how a systems thinking approach allows sustainable design to span varied contexts and multiple scales This textbook is intended to inspire a new vision for the future that unites human activity with natural processes to form a regenerative coevolutionary model for sustainable design Supported by additional resources including additional reading for each chapter and classroom assignments this book will be essential reading for students of sustainability and sustainable design      **Sustainable Development of Urban Environment and Building Material** Hui

Li,Yan Feng Liu,Ming Guo,Rui Zhang,Jing Du,2011-10-24 Selected peer reviewed papers from the 4th International Conference on Technology of Architecture and Structure ICTAS 2011 September 22 24 2011 Xi an China     **Sustainable Built Environment and Urban Growth Management** Wann-Ming Wey,2020 Nowadays the sustainable built environment planning in most cities has come to a turning point as the growth in traffic and population has become a serious concern and put tremendous pressure on both the environment and people in these cities It is therefore important to find new ways or lifestyles such as compact city transit oriented development TOD formulations that are more flexible inclusive and sustainable Furthermore for the sustainable built environment and urban growth management not only should the growth management principles which include smart growth sustainable growth and inclusive growth be taken into account but innovative smart planning strategies such as mixed use design green transport and new urbanism are also utilized in planning sustainable built environments in order to prevent the urban sprawl development that has occurred

**Integrating Information in Built Environments** Adriana X Sanchez,Keith Hampson,Geoffrey London,2017-07-20 In an increasingly globalised built environment industry achieving higher levels of integration across organisational and software boundaries can lead to improved economic social and environmental outcomes This book is the direct result of a collaborative global network of industry and academic researchers spread across nine countries as part of CIB s International Council for Research and Innovation in Building and Construction Task Group 90 TG90 Information Integration in Construction IICON The book provides a broad view of some of the opportunities and challenges brought by integrating information across organisational and system boundaries in the built environment industry Chapters cover a large range of topics and are separated into three sections resources processes and added value They provide a much needed international perspective on a current global evolution in the industry and present leading original research and valuable lessons for researchers industry practitioners government clients and policy makers across the industry Key features include a broad range of topics that are not covered elsewhere in the literature contributions from a diverse group of industry research leaders from across the globe exemplar case studies providing real world examples of where information integration has been a key factor for success or lack thereof has been at the root cause of failure an analysis of future priority areas for research and development investment as well as their strategic implications for public and private decision makers the book will deliver innovation in best practice methodology for information sharing across disciplines and between the design construction and asset management sectors     Routledge Handbook of Smart Built Environment Weisheng Lu,Chimay J. Anumba,2025-03-20 The primary aim of this edited volume is to document the current theories best practices and technological advancements in the move towards a Smart Built Environment SBE The needs to accelerate towards the SBE are numerous and include Increasing complexities and the need for interconnectivity within the built environment e g mega infrastructure projects Data driven decision making resulting in higher demand from clients e g smart design construction



operation and end of life EOL High requirements from stakeholders e g system efficiency environmental performance green procurement Fast paced technological advancement and integration Natural disaster resilience of the built environment e g prediction smart control of building component Sustainability issues around the built environment In this book the interrelationships among the various lifecycle stages design construction operation and EOL the collective benefit of synergy at building level multi infrastructure level and city level as well as the ultimate goals in relation to the deployment of smart technologies in the industry are addressed Part I covers smart design and construction Part II smart living and operation and Part III broadens the scope to the whole smart city Chapters examine How smart technologies can improve the effectiveness productivity and efficiency of the built environment An overview of theories and practices that are enabled by innovations and technologies for developing the SBE The basis for new research agenda new concepts and frameworks for future development This handbook documents the current theories practices and technologies and develops a holistic approach for research and practice by adopting a multidimensional outlook for the SBE It is an essential reference work for all built environment stakeholders from academia through to the professions

## Reviewing **Smart And Sustainable Built Environments**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Smart And Sustainable Built Environments**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Smart And Sustainable Built Environments Introduction**

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