

# Sustainable Retrofitting of Commercial Buildings

*Cool climates*

Edited by  
Simon Burton



# Sustainable Retrofitting Of Commercial Buildings Cool Climates

**Indranil Ghosh**



## **Sustainable Retrofitting Of Commercial Buildings Cool Climates:**

*Sustainable Retrofitting of Commercial Buildings* Simon Burton, 2015 Whilst sustainability is already an important driver in the new building sector this book explores how those involved in refurbishment of commercial building are moving this agenda forward It includes chapters by developers surveyors cost consultants architects building physicists and other players on the role they each can play in enabling refurbishment to be commercially environmentally and socially sustainable Case studies from northern climates show real examples of different building types ages and uses and will demonstrate what action has been taken to create more sustainable buildings The chapters raise and discuss all the relevant issues that need to be considered in retrofitting decision making Changing standards planning process management financing technical issues site organisation commissioning and subsequent building management are all considered The book demonstrates that buildings can be made comfortable to occupy easy to manage and low in energy demand and environmental impact

Sustainable Retrofitting of Commercial Buildings Richard Hyde, Nathan Groenhout, Francis Barram, Ken Yeang, 2015-01-28 Despite recent improvements in energy efficiency being made in new build it is important that the existing commercial building sector also take action to meet emission reduction targets The objectives and challenges of such action will reduce the risk of the sector becoming obsolete due to high energy use and poor environmental performance This book presents a theory based practice support methodology to deal with sustainable retrofitting opportunities for existing commercial buildings in warm climates using bioclimatic design as the basis The book has four main parts focusing on eco design and renovation bioclimatic retrofitting technological and behavioural change and case studies of retrofitting exemplars In the first part the context of climate change effects on design and renovation at the city scale is discussed The second part looks at bioclimatic retrofitting as a design guide for existing buildings highlighting the significance of architectural design and engineering systems for energy performance The technological and behavioural contexts of the existing building sector policies modelling monitoring and trend analysis in respect to energy and environmental performance are covered in part three The final part gives some case studies showing the effectiveness of strategies suggested for effective environmental performance This book is a must have guide for all involved in the design and engineering of retrofitting projects in warm climates

Sustainable Retrofitting of Commercial Buildings Richard Hyde, Nathan Groenhout, Francis Barram, Ken Yeang, 2013

Sustainable Retrofitting of Commercial Buildings Simon Burton, 2014-10-03 Whilst sustainability is already an important driver in the new building sector this book explores how those involved in refurbishment of commercial building are moving this agenda forward It includes chapters by developers surveyors cost consultants architects building physicists and other players on the role they each can play in enabling refurbishment to be commercially environmentally and socially sustainable Case studies from northern climates show real examples of different building types ages and uses and will demonstrate what action has been taken to create more

sustainable buildings The chapters raise and discuss all the relevant issues that need to be considered in retrofitting decision making Changing standards planning process management financing technical issues site organisation commissioning and subsequent building management are all considered The book demonstrates that buildings can be made comfortable to occupy easy to manage and low in energy demand and environmental impact **Intelligent Envelopes for**

**High-Performance Buildings** Guedi Capeluto, Carlos Ernesto Ochoa, 2016-11-09 This book presents a series of significant methods and examples for the design of sustainable intelligent facades in a variety of contexts Emphasis is placed on how intelligence has been applied for successful energy saving efforts in the planning of building envelopes Readers will find essential information on the core principles involved in designing calculating and organizing intelligent facades according to the need for a new or retrofitted building Not only are different materials and technologies considered but also efficient ways to combine them according to user needs and other project specific constraints Illustrations tables and graphs accompany the text clarifying the concepts discussed Architects facade consultants and all those interested in and energy saving measures and improved indoor comfort will find this book useful not only as an introduction to the subject but also as a guide to achieving more responsive building methods **Architectural Research Addressing Societal Challenges Volume 1**

Manuel Jorge Rodrigues Couceiro da Costa, Filipa Roseta, Susana Couceiro da Costa, Joana Pestana Lages, 2017-09-19 The EAAE ARCC International Conference held under the aegis of the EAAE European Association for Architectural Education and of the ARCC Architectural Research Centers Consortium is a conference organized every other year in collaboration with one of the member schools universities of those associations alternatively in North America or in Europe The EAAE ARCC Conferences began at the North Carolina State University College of Design Raleigh with a conference on Research in Design Education 1998 followed by conferences in Paris 2000 Montreal 2002 Dublin 2004 Philadelphia 2006 Copenhagen 2008 Washington 2010 Milan 2012 and Honolulu 2014 The conference discussions focus on research experiences in the field of architecture and architectural education providing a critical forum for the dissemination and engagement of current ideas from around the world **Architectural Research Addressing Societal Challenges** Manuel Jorge Rodrigues Couceiro da

Costa, Filipa Roseta, Joana Pestana Lages, Susana Couceiro da Costa, 2019-08-08 The escalating interdependency of nations drives global geopolitics to shift ever more quickly Societies seem unable to control any change that affects their cities whether positively or negatively Challenges are global but solutions need to be implemented locally How can architectural research contribute to the future of our changing society How has it contributed in the past The theme of the 10th EAAE ARCC International Conference Architectural Research Addressing Societal Challenges was set to address these questions This book Architectural Research Addressing Societal Challenges includes reviewed papers presented in June 2016 at the 10th EAAE ARCC International Conference which was held at the facilities of the Faculty of Architecture of the University of Lisbon The papers have been further divided into the following five sub themes a Changing Society In Transit Global

Migration Renaturalization of the City Emerging Fields of Architectural Practice and Research on Architectural Education

The EAAE ARCC International Conference held under the aegis of the EAAE and of the ARCC is a conference organized every other year in collaboration with one of the member schools universities of those associations alternatively in North America or in Europe

Resilient Building Retrofits Sarah Sayce, Sara Wilkinson, Gillian Armstrong, Samantha Organ, 2022-09-20 This radical book aims to inject new insight and urgency into the discourse on the retrofitting of commercial and residential buildings in the face of the climate emergency It is about the why how and who should take the lead in revolutionising buildings in the face of serious climate and social change Buildings contribute very significantly to the output of carbon particularly in developed countries where the stock is old but it is neither feasible nor desirable to demolish them all and start again If existing buildings cannot in be replaced in the short term by new zero carbon stock retrofitting and adaptation of the existing building stock is critical and urgent This book explains why and how the improvement of buildings requires a complex holistic approach that brings all stakeholders together with respect and understanding Yet to do this against a limited time frame is challenging The book analyses what must be done explores how it could be achieved and sets out a manifesto for action by all those engaged from policy makers to educationalists designers constructors investors funders and occupiers By bringing together authors from across the built environment disciplines the book stimulates debate within policy practice and education circles which must lead to action if we are to avoid catastrophe This is a unique addition to the literature on the sustainability of existing buildings and their retrofitting for the benefit of all

**Smart Urban Regeneration** Simon Huston, 2017-09-01 The role of real estate in our cities is crucial to building sustainable and resilient urban futures Smart Urban Regeneration brings together institutional planning and real estate insights into an innovative regeneration framework for academics students and property professionals Starting by identifying key urban issues within the historical urban and planning backdrop the book goes on to explore future visions the role of institutions and key mechanisms for smart urban regeneration Throughout the book international case studies and discussion questions help to draw out global implications for urban stakeholders Real estate professionals face a real challenge to build visionary developments which resonate locally yet mitigate climate change and curb sprawl and foster biodiversity By avoiding the dangers of speculative excess on one side and complacency on the other Smart Urban Regeneration shows how transformation aspirations can be achieved sustainably Academics students and professionals who are involved in real estate urban planning property investment community development and sustainability will find this book an essential guide to smart urban regeneration investment

Developments in Information and Knowledge Management Systems for Business Applications Peter Štarchoň, Solomiia Fedushko, Katarína Gubíniová, 2025-03-01 In this series we delve into the challenges and opportunities of managing business information efficiently We explore various aspects of information processing for effective enterprise management including methods techniques and strategies Our goal is to provide solutions for competent

information management that increases business usage while also analyzing strategies to reduce data loss and improve customer satisfaction and maintenance levels Our book offers practical knowledge on different facets of information and knowledge management in businesses such as information processing theory and models the benefits and implementation challenges of information knowledge business and information management methods for creating a global information society We also cover topics such as collecting and analyzing data for enterprise management modern business intelligence solutions and data management information marketing and innovative development of the enterprise information system Our focus is on applications benefits and encounters within the field of efficient business information processing and we offer solutions to increase performance using the latest IT technologies

**Cities and Climate Change** OECD,2010-11-29 This book shows how city and metropolitan regional governments working in tandem with national governments can change the way we think about responding to climate change

Sustainable Building Adaptation Sara J. Wilkinson,Hilde Remøy,Craig Langston,2014-04-07 How to adapt existing building stock is a problem being addressed by local and state governments worldwide In most developed countries we now spend more on building adaptation than on new construction and there is an urgent need for greater knowledge and awareness of what happens to commercial buildings over time Sustainable Building Adaptation innovations in decision making is a significant contribution to understanding best practice in sustainable adaptations to existing commercial buildings by offering new knowledge based theoretical and practical insights Models used are grounded in results of case studies conducted within three collaborative construction project team settings in Australia and the Netherlands and exemplars are drawn from the Americas Asia Japan Korea and Europe to demonstrate the application of the knowledge more broadly Results clearly demonstrate that the new models can assist with informed decision making in adaptation that challenges some of the prevailing solutions based on empirical approaches and which do not accommodate the sustainability dimension The emphasis is on demonstrating how the new knowledge can be applied by practitioners to deliver professionally relevant outcomes The book offers guidance towards a balanced approach that incorporates sustainable and optimal approaches for effective management of sustainable adaptation of existing commercial buildings

*Sustainable Energy Development and Innovation* Ali Sayigh,2022-02-24 This book contains selected papers presented during the World Renewable Energy Congress WREC 2020 at the Instituto Superior Técnico in Lisbon The WREC is dedicated to promoting renewable energy global development and features top international experts policy makers scientists engineers technology developers and business practitioners addressing the most current research and technological breakthroughs in sustainable energy development and innovation The contributions address policy and renewable energy technologies and applications in all sectors for heating and cooling agricultural applications water desalination industrial applications and for the transport sectors Presents cutting edge research in green building and renewable energy from all over the world Covers the most up to date research developments government policies business models best practices and

innovations Contains case studies and examples to enhance practical application of the technologies      *Urban Retrofitting for Sustainability* Tim Dixon, Malcolm Eames, Miriam Hunt, Simon Lannon, 2014-01-21 With a foreword from Paul King Chief Executive UK Green Building Council and Chairman Zero Carbon Hub As concerns over climate change and resource constraints grow many cities across the world are trying to achieve a low carbon transition Although new zero carbon buildings are an important part of the story in existing cities the transformation of the current building stock and urban infrastructure must inevitably form the main focus for transitioning to a low carbon and sustainable future by 2050 *Urban Retrofitting for Sustainability* brings together interdisciplinary research contributions from leading international experts to focus on key issues such as systems innovation financing tools governance energy and water management The chapters consider not only the knowledge and technical tools available but looks forward to how they can be implemented in real cities by 2050      *Retrofitting Cities for Tomorrow's World* Malcolm Eames, Tim Dixon, Miriam Hunt, Simon Lannon, 2017-09-06 A groundbreaking exploration of the most promising new ideas for creating the sustainable cities of tomorrow The culmination of a four year collaborative research project undertaken by leading UK universities in partnership with city authorities prominent architecture firms and major international consultants *Retrofitting Cities for Tomorrow's World* explores the theoretical and practical aspects of the transition towards sustainability in the built environment that will occur in the years ahead The emphasis throughout is on emerging systems innovations and bold new ways of imagining and re imagining urban retrofitting set within the context of futures based thinking The concept of urban retrofitting has gained prominence within both the research and policy arenas in recent years While cities are often viewed as a source of environmental stress and resource depletion they are also hubs of learning and innovation offering enormous potential for scaling up technological responses But city level action will require a major shift in thinking and a scaling up of positive responses to climate change and the associated threats of environmental and social degradation Clearly the time has come for a more coordinated planned and strategic approach that will allow cities to transition to a sustainable future This book summarizes many of the best new ideas currently in play on how to achieve those goals Reviews the most promising ideas for how to approach planning and coordinating a more sustainable urban future by 2050 through retrofitting existing structures Explores how cities need to govern for urban retrofit and how future urban transitions and pathways can be managed modeled and navigated Offers interdisciplinary insights from international contributors from both the academic and professional spheres Develops a rigorous conceptual framework for analyzing existing challenges and fostering innovative ways of addressing those challenges *Retrofitting Cities for Tomorrow's World* is must reading for academic researchers including postgraduates insustainability urban planning environmental studies economics among other fields It is also an important source of fresh ideas and inspiration for town planners developers policy advisors and consultants working within the field of sustainability energy and the urban environment      **The Global Insurance Market and Change** Anthony A Tarr, Julie-Anne

Tarr, Maurice Thompson, Dino Wilkinson, 2023-10-17 This book focuses on the global landscape in which insurance is transacted and where it is evolving driven from within by transformative technologies and externally by the necessity to address risks like climate change and health crises such as the COVID 19 pandemic It discusses the dynamic challenges and opportunities that lie ahead for the industry in areas such as on demand insurance embedded insurance parametric insurance autonomous vehicles the rise of fintech the cyber risk landscape and through initiatives driven by distributed ledger technology or blockchain solutions Moreover it covers the major external challenges confronting the global insurance market such as the growing insurance protection gap in relation to the affordability and insurability of natural catastrophes and climate change and pandemics like COVID 19 This book examines innovations in insurance driven by the industry as well as externally imposed changes and dynamics impacting the industry It describes these changes the industry s responses and the legal framework in which they occur It canvasses additional regulatory and law reform initiatives that may be necessary to achieve an effective balance between the various competing interests The book is the first to address these matters holistically with a particular focus upon insurance law it will describe these changes and industry responses and the legal framework in which they occur The Global Insurance Market will be directly relevant to legal professionals insurers insurtechs fintechs brokers CEOs of insurance companies risk managers legal counsel academics researchers the judiciary and policy makers It will also serve as a valuable resource for students of all levels *Powering Prosperity* Indranil Ghosh, 2020-05-19 Since the Global Financial Crisis we have been approaching a crossroad in modern human history The top 1 percent of people own more than half of the world s wealth while hundreds of millions suffer in extreme poverty Governments quarrel over the politics of environmental policy even as climate change poses an existential threat to life on the planet And communities hollowed out by the forces of globalization still struggle to stand on their feet How can we even begin to contemplate solutions to such immense and persistent problems In *Powering Prosperity A Citizen s Guide to Shaping the 21st Century* Dr Indranil Ghosh brings together his decades of experience as a sustainable economic development investor an entrepreneur and an MIT trained scientist to provide a new framework for understanding the world s challenges and the choices societies must make to address them Central to Dr Ghosh s roadmap for positive change is a more inclusive form of governance a collaborative model of long term investment between public and private capital and the empowerment of local communities to unleash their innovative and entrepreneurial energy **Handbook of Energy and Environment in the 21st Century** Muhammad Asif, Guller Sahin, Muhammad Khalid, 2024-06-27 The *Handbook of Energy and Environment in the 21st Century* discusses the key dimensions of the present energy scenario as well as the emerging trends Global responses to environmental challenges are examined taking into account technical economic social and policy perspectives Responding to the latest developments the book also discusses the impacts of natural disasters and pandemics on energy in the context of energy and environmental implications Further it presents various related topics such as the dynamics of



sustainable energy transition renewable energy implementation decarbonization of fossil fuels electric mobility distributed generation systems and energy security The book will benefit a wide range of stakeholders from the fields of energy environment socioeconomics geopolitics and sustainable development It serves as a valuable reference for academics researchers and analysts in these fields Provides a comprehensive and balanced account of the interwoven subjects of energy and environment in terms of technology and policy dynamics Incorporates up to date data case studies and comparative assessments

Handbook of Energy Transitions Muhammad Asif, 2022-10-14 The global energy scenario is undergoing an unprecedented transition In the wake of enormous challenges such as increased population higher energy demands increasing greenhouse gas emissions depleting fossil fuel reserves volatile energy prices geopolitical concerns and energy insecurity issues the energy sector is experiencing a transition in terms of energy resources and their utilization This modern transition is historically more dynamic and multidimensional compared to the past considering the vast technological advancements socioeconomic implications and political responses and ever evolving global policies and regulations Energy insecurity in terms of its critical dimensions access affordability and reliability remains a major problem hindering the socioeconomic progress in developing countries The Handbook of Energy Transitions presents a holistic account of the 21st century energy transition away from fossil fuels It provides an overview of the unfolding transition in terms of overall dimensions drivers trends barriers policies and geopolitics and then discusses transition in terms of particular resources or technologies such as renewable energy systems solar energy hydropower hydrogen and fuel cells electric vehicles energy storage systems batteries digitalization smart grids blockchain and machine learning It also discusses the present energy transition in terms of broader policy and developmental perspectives Further it examines sustainable development the economics of energy and green growth and the role of various technologies and initiatives like renewables nuclear power and electrification in promoting energy security and energy transition worldwide Key Features Includes technical economic social and policy perspectives of energy transitions Features practical case studies and comparative assessments Examines the latest renewable energy and low carbon technologies Explains the connection between energy transition and global climate change

Dialogues in Climate and Environmental Research, Policy and Planning Innocent Chirisa, 2020-07-03 Climate change is the topic of the century It is a subject of discussion by sceptics heretics and those that have immersed in it as a serious debate for engagement In this volume the matter is localised to the plateau bordered by the great rivers of Limpopo to the south and Zambezi to the north Evidence has it that climate change is inducing immense environmental change hitherto unknown including water stress and droughts heat waves and flooding The effects span across all sectors agriculture forestry engineering construction and other socio economic dimensions of life When an issue becomes such topical it becomes political but also courts policy debate The thrust of this volume is to explore into climate change as an environmental concern begging government attention and requiring prioritisation as a shaper of our future whether we set to

put mitigation or adaptation measures in place or we choose to do nothing about it as sceptics would perhaps suggest The book explores climate change as a theoretical policy technical and practical debate as it affects sectors and rural and urban spatialities in Zimbabwe Contributions explore such themes as regional research gender disaster preparedness policymaking resilience governance urban planning risk management environmental law and the food water health energy climate change nexus

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