

Sustainable Retrofitting of Commercial Buildings

Cool climates

Edited by
Simon Burton



Sustainable Retrofitting Of Commercial Buildings Cool Climates

Jeroen van der Heijden



Sustainable Retrofitting Of Commercial Buildings Cool Climates:

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

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 **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

Cost-Effective Energy-Efficient Methods for Refurbishment and Retrofitting of Buildings F.

Pacheco-Torgal, Claes-Göran Granqvist, Giuseppe Peter Vanoli, Nicola Bianco, Jarek Kurnitski, 2025-01-11 Cost Effective Energy Efficient Methods for Refurbishment and Retrofitting of Buildings Materials Technologies Optimization and Case Studies provides up to date knowledge on this important research field Divided over three key parts the book s chapters cover materials and innovative technologies optimization strategies and actual case study applications that highlight the impact of

different climatic conditions social factors and the economic specifications of each retrofit process Emphasis is placed on cost efficiency which is key in any energy retrofit process Taking into consideration key changes in the Energy Performance of Buildings Directive EPBD and the European Union Green Deal on Refurbishment and Renovation this book will be a valuable reference resource for materials scientists architects civil engineers and all those working on cost effective and energy efficient retrofitting and building refurbishment Discusses cost effective energy efficient methods for the refurbishment of existing buildings using state of the art technologies Includes detailed case studies that explain various methods and Net Zero Energy Explains optimal analysis and prioritization of cost effective strategies **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 Retrofitting Cities for

Tomorrow's World Malcolm Eames, Tim Dixon, Miriam Hunt, Simon Lannon, 2017-09-08 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 inter disciplinary 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

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

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

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 **The Climate**

Action Handbook Heidi Roop, 2023-03-21 What can I do personally about the climate crisis Ask yourself what are you passionate about Using this passion may motivate you to help shape the future of your community The New York Times Climate Forward newsletter This must have book shows us WHY we need to take action now to combat climate change and then critically HOW through easy to understand language and fascinating infographics that offer each of us varied and doable solutions to the many challenges facing our planet As more focus is put on climate science there is a need for each of us to learn how we can change our habits in our home communities and government to save our planet Enter The Climate Action Handbook A visually stunning guide it does what no other climate change book manages to do it's approachable digestible and offers the average person ideas options and a roadmap for action It also offers hope often overlooked in climate change conversations Climate actions can create near instantaneous improvements in air quality and can offer ways to address societal inequities green our communities save money and build local economies From food and fashion choices rethinking travel greening up our homes and gardens to civic engagement and championing community climate planning Dr Heidi Roop shares 100 wide ranging ways that readers from all walks of life can help move the needle in the right direction Actions include Cutting down on food waste Reducing your driving speed Voting in every election Using the cold water cycle on your washing machine Supporting healthy soils in your gardens and community green spaces Engaging in local climate action planning Preparing an emergency kit for your home Deleting unused emails and online accounts Swapping out milk for nondairy alternatives like oat milk Opting for slower shipping whenever possible Regularly maintaining and clean your heating and cooling systems Engaging in climate conversations at work and at home And many more Return to this invaluable resource again and again to discover a roadmap for action and much needed hope What will your climate journey look like *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

Improving Energy Efficiency in Commercial Buildings and Smart Communities Paolo Bertoldi, 2020-01-14 These proceedings present fourteen peer reviewed papers from the 10th International Conference on Improving Energy Efficiency in Commercial Buildings and Smart Communities which was held March 21 22 2018 in Frankfurt Germany This biannual conference aims to promote and diffuse the concept of energy efficiency in new and existing commercial buildings and to enlarge the market for low consumption and sustainable non residential buildings It also covers smart and sustainable districts communities and cities since energy systems efficiency and renewable energies are often optimized at the district or municipal level The 2018 conference focused on advanced and innovative technologies to improve the energy efficiency of commercial buildings communities and cities as well as the policies and measures by governments at various levels to improve energy efficiency A particular focus was on Energy Service Companies ESCOs The conference addresses energy policy makers at international national and local level academics researchers and energy efficiency experts ESCOs utilities buildings energy and environmental managers buildings engineers and architects and equipment manufacturers and commercial property investors

Proceedings CLIMA 2022 Laure Itard, Lada Hensen-Centnerová, Atze Boerstra, Philomena Bluysen, Jan Hensen, Tillmann Klein, Marcel Loomans, Pieter Pauwels, Christian Struck, Martin Tenpierik, Bob Geldermans, 2022-10-12 The 14th REHVA HVAC World Congress CLIMA2022 challenges advances in technologies for smart energy transition digitization circularity health and well being in buildings How can we create circular buildings fully heated cooled and powered by renewable energy How can we design human centered indoor environments while mastering life cycle costs How can we also include their integration into infrastructure for energy health data and education

Advances in Energy and Built Environment Guoqiang Zhang, N. D. Kaushika, S. C. Kaushik, R. K. Tomar, 2019-06-29 This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering TRACE 2018 The book presents results of experimental investigations into the latest topics related to energy and built environment The topics covered include green and clean technologies zero energy buildings solar energy energy conservation and heat recovery and solar architecture The contents of this book will be beneficial to students

researchers and professionals working in the area of energy and built environment engineering Mitigating Unsustainable Practices in Construction and Architecture González-Lezcano, Roberto Alonso, Sansaniwal, Sunil Kumar, 2025-09-18 The construction and architecture industry plays a critical role in advancing global efforts toward sustainability resilience and climate change mitigation As one of the most resource intensive sectors it must rapidly adopt circular economy principles and green technologies to reduce its environmental footprint With growing urbanization aging infrastructure and increased energy demand the push for energy efficient decarbonized built environments is more urgent than ever Transforming the built environment is essential not only for reducing emissions but also for ensuring long term economic viability and social well being This transition supports broader global objectives for clean energy equitable resource use and sustainable development Mitigating Unsustainable Practices in Construction and Architecture explores research and concrete actions that can be widely implemented in the built environment for more sustainable construction It addresses global policies and regulations aimed at supporting climate change mitigation and adaptation strategies for clean and sustainable construction and architecture Covering topics such as adaptive behavior machine learning and urban development this book is an excellent resource for architects engineers urban planners policymakers researchers academicians and more Innovations in Urban Climate Governance Jeroen van der Heijden, 2017-07-20 Analyses voluntary programs for sustainable buildings and cities a prominent strategy to mitigate climate change 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

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