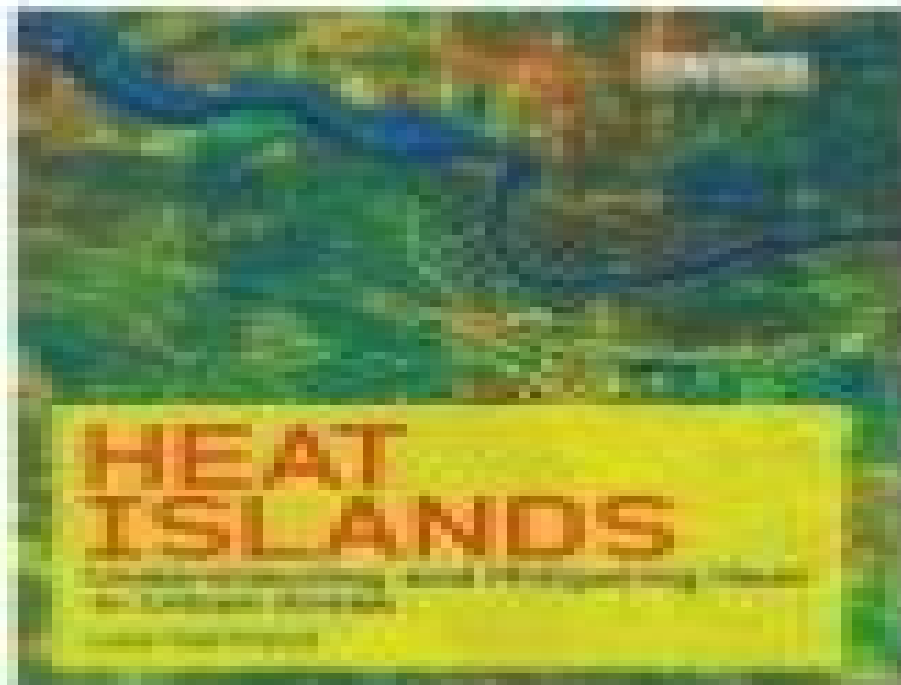


Heat Islands: Urban and Suburban Heat Islands Urban Areas

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Heat Islands Understanding And Mitigating Heat In Urban Areas

Sascha Roesler, Madlen Kobi



Heat Islands Understanding And Mitigating Heat In Urban Areas:

Heat Islands Lisa Gartland, 2012-05-16 Heat islands are urban and suburban areas that are significantly warmer than their surroundings. Traditional highly absorptive construction materials and a lack of effective landscaping are their main causes. Heat island problems in terms of increased energy consumption, reduced air quality, and effects on human health and mortality are becoming more pressing as cities continue to grow and sprawl. This comprehensive book brings together the latest information about heat islands and their mitigation. The book describes how heat islands are formed, what problems they cause, which technologies mitigate heat island effects, and what policies and actions can be taken to cool communities. Internationally renowned expert Lisa Gartland offers a comprehensive source of information for turning heat islands into cool communities. The author includes sections on cool roofing and cool paving, explains their benefits in detail, and provides practical guidelines for their selection and installation. The book also reviews how and why to incorporate trees and vegetation around buildings in parking lots and on green roofs.

Heat Islands Lisa Gartland, 2008 An excellent scientific book and a very useful source of knowledge. The author has succeeded in describing in a very comprehensive way all the recent scientific developments in this very important subject. The reader will be fully informed on the causes of heat islands, the scientific ways to document them, and also on all major mitigation techniques. This is a valuable reference not only for climatologists and climate experts but also for building engineers, architects, building physicists, researchers, and university students. Mat Santamouris, Associate Professor at the University of Athens, Greece.

Urban Heat Island (UHI) Mitigation Napoleon Enteria, Mat Santamouris, Ursula Eicker, 2020-12-14 This book discusses the concepts and technologies associated with the mitigation of urban heat islands (UHIs) that are applicable in hot and humid regions. It presents several city case studies on how UHIs can be reduced in various areas to provide readers, researchers, and policymakers with insights into the concepts and technologies that should be considered when planning and constructing urban centres and buildings. The rapid development of urban areas in hot and humid regions has led to an increase in urban temperatures, a decrease in ventilation in buildings, and a transformation of the once green outdoor environment into areas full of solar energy absorbing concrete and asphalt. This situation has increased the discomfort of people living in these areas regardless of whether they occupy concrete structures. This is because indoor and outdoor air quality have both suffered from urbanisation. The development of urban areas has also increased energy consumption so that the occupants of buildings can enjoy indoor thermal comfort and air quality that they need via air conditioning systems. This book offers solutions to the recent increase in the number of heat islands in hot and humid regions.

Urban Heat Stress and Mitigation Solutions Vincenzo Costanzo, Gianpiero Evola, Luigi Marletta, 2021-09-08 This book provides the reader with an understanding of the impact that different morphologies, construction materials, and green coverage solutions have on the urban microclimate, thus affecting the comfort conditions of urban inhabitants and the energy needs of buildings in urban areas. The book covers the latest

approaches to energy and outdoor comfort measurement and modelling on an urban scale and describes possible measures and strategies to mitigate the effects of the mutual interaction between urban settlements and local microclimate. Despite its relevance, only limited literature is currently devoted to appraising from an engineering perspective the intertwining relationships between urban geometry and fabrics, energy fluxes between buildings and their surroundings, outdoor microclimate conditions and building energy demands in urban areas. This book fills this gap by first discussing the physical processes that govern heat and mass transfer at an urban scale while emphasizing the role played by different spatial arrangements, manmade materials and green infrastructures on the outdoor microclimate. The first chapters also address the implications of these factors on the outdoor comfort conditions experienced by pedestrians and on the buildings' energy demand for space heating and cooling. Then, based upon cutting edge experimental activities and simulation work, this book demonstrates current and forthcoming adaptation and mitigation strategies to improve the urban microclimate and its impact on the built environment, such as cool materials, thermochromic and retroreflective finishing materials and green infrastructures applied either at a building scale or at the urban scale. The effect of these solutions is demonstrated for different cities worldwide under a range of climate conditions. Finally, the book opens a wider perspective by introducing the basic elements that allow fuel poverty, raw materials consumption and the principles of circular economy in the definition of a resilient urban settlement.

Global Urban Heat Island Mitigation Ansar Khan, Hashem Akbari, Francesco Fiorito, Sk

Mithun, Dev Niyogi, 2022-06-15. Global Urban Heat Island Mitigation provides a comprehensive picture of global UHI micro thermal interaction in different built environments. The book explains physical principles and how to moderate undesirable consequences of swift and haphazard urban development to create more sustainable and resilient cities. Sections provide extensive discussion on numerous UHI mitigation technologies and their effectiveness in cities around the globe. In addition, the book proposes novel UHI mitigation technologies and strategies while also assessing the effectiveness and suitability of UHI mitigation interventions in various climates and urban forms. Adopts a multidisciplinary approach bridging theoretical and applied urban climatology with urban heat mitigation. Compiles disparate urban climate research concepts and technologies into a coherent framework. Includes contributions from leaders in fields from around the globe. ICSDEMS 2019 Seyed Sattar Emamian, Timothy O. Adekunle, Utahberta Nangkula, Mokhtar Awang, 2020-08-18. This book gathers selected papers from the International Conference on Sustainable Design Engineering Management and Sciences ICSDEMS 2019 held in Kuala Lumpur, Malaysia. It highlights recent advances in civil engineering and sustainability, bringing together researchers and professionals to address the latest most relevant issues in these areas. *The Routledge Handbook of People and Place in the 21st-Century City* Kate Bishop, Nancy Marshall, 2019-08-13. Increasing urbanization and increasing urban density put enormous pressure on the relationships between people and place in cities. Built environment professionals must pay attention to the impact of people-place relationships in small to large scale urban initiatives. A small playground in a

neighborhood pocket park is an example of a small scale urban development a national environmental policy that influences energy sources is an example of a large scale initiative All scales of decision making have implications for the people place relationships present in cities This book presents new research in contemporary interdisciplinary urban challenges and opportunities and aims to keep the people place relationship debate in focus in the policies and practices of built environment professionals and city managers Most urban planning and design decisions even those on a small scale will remain in the urban built form for many decades conditioning people s experience of their city It is important that these decisions are made using the best available knowledge This book contains an interdisciplinary discussion of contemporary urban movements and issues influencing the relationship between people and place in urban environments around the world which have major implications for both the processes and products of urban planning design and management The main purpose of the book is to consolidate contemporary thinking among experts from a range of disciplines including anthropology environmental psychology cultural geography urban design and planning architecture and landscape architecture and the arts on how to conceptualize and promote healthy people and place relationships in the 21st century city Within each of the chapters the authors focus on their specific areas of expertise which enable readers to understand key issues for urban environments urban populations and the links between them

Towns, Ecology, and the Land Richard T. T. Forman, 2019-02-07 A pioneering book highlighting the dynamic environmental dimensions of towns and villages and spatial connections with surrounding land

Urban Ecology Richard T. T. Forman, 2014-02-13 The first richly illustrated worldwide portrayal of urban ecology tying together organisms built structures and the physical environment around cities

Geospatial Applications for Climate Adaptation Planning Diana Mitsova, Ann-Margaret Esnard, 2018-12-07 Climate adaptation is a timely yet complex topic that does not fit squarely into any one disciplinary realm Geospatial Applications for Climate Adaptation Planning presents an overview of the range of strategies tools and techniques that must be used to assess myriad overlapping vulnerabilities and to formulate appropriate climate relevant solutions at multiple scales and in varying contexts Organized into four sections the book includes 15 chapters Each chapter is grounded in the literature and presents case studies designed by the authors as well as many examples from a diverse international group of scholars and entities in the public and private sectors Areas covered include Climate Change and Climate Adaptation Planning Context and Concepts Geospatial Technologies Fundamentals and Terminology GIS and Climate Vulnerability Assessments Technical Approaches to Formulating Mitigation and Adaptation Strategies Geospatial Applications for Climate Adaptation Planning is aimed at advanced students researchers and entities in the public and private sectors It also provides supplementary reading for courses in planning public administration policy studies and disaster management

The Urban Microclimate as Artifact Sascha Roesler, Madlen Kobi, 2018-09-24 Urban microclimates cannot be explained solely on the basis of scientific phenomena but are also affected materially and spatially by the city s local architecture The layout design and facade

construction of buildings have a major impact on wind and temperature conditions For this reason architecture and urban design that have an effect on microclimates must be investigated in their social and cultural contexts The publication uses international case studies to explain these relationships The focus is on manifestations of urban microclimates in an architectural and urban design context The places investigated are located in France Italy the USA New Zealand the Philippines Taiwan and Burkina Faso

American Exodus Giles Slade,2013-11-01 Some scientists predict the sea will rise 1.5 meters before 2100 but rapidly melting polar ice caps could make the real amount much higher In the coming century intensifying storms will batter our coasts and droughts and heat events will be annual threats All this will occur as population grows and declining water resources desiccate agriculture What will happen when the United States cannot provide food or fresh water for the overheated overcrowded cities where 80% of Americans currently live The good news is that this overall decline of habitability in the mid latitudes will be matched by increases in the carrying capacity of sparsely populated lands above the 49th parallel This phenomenon suggests that waves of environmental refugees will travel poleward as southern conditions worsen Our northern lands are our Noah's ark a vital refuge against the moment of mankind's greatest need In this compelling cautionary tale Slade argues that we are entering a long period of global desperation which will be characterized by human migration on an unprecedented scale American Exodus is a frighteningly believable survey of our immediate future but it ends on a note of hope we may yet survive the coming century of climatic change if we act now to safeguard our shelter of last resort

Sustainable Development (2 Volume Set) C.A. Brebbia,2015-10-06 This collection of research papers presented at meetings organised by the Wessex Institute of Technology WIT concerns a variety of issues relating to the area of sustainable development WIT has a long and very successful record of organising conferences on the topic of sustainability which requires an interdisciplinary approach Any sustainable solutions that are derived solely from the perspective of a single discipline may have unintended damaging consequences that create new problems Thus effective sustainable solutions require the collaboration of scientists and engineers from various disciplines as well as planners architects environmentalists policy makers social scientists and economists The contents of this book reflect that interdisciplinary approach and include topics under the main areas of Sustainable development and planning Disaster management Air pollution Urban transport Ecosystems and Water resources management

High-Rise Urban Form and Microclimate Feng Yang,Liang Chen,2019-12-11 The book comprehensively investigates the relationship between critical urban form and fabric parameters and urban microclimate in the high rise urban environment that prevails in Asian megacities such as Shanghai It helps readers gain a deeper understanding of climate responsive urban design strategies and tactics for effectively mitigating the negative impacts of deteriorating urban thermal environments on pedestrian thermal comfort outdoor air quality and building energy consumption It also reviews the latest advances in urban climate research with a focus on the challenges in terms of outdoor space comfort health and livability posed by the high rise and high density

development in emerging Asian megacities and proposes an integrated framework in response to the pressing need for microclimate research. It then presents a series of studies on high rise residential and non residential urban neighborhoods and districts based on instrumented field study, validated numerical simulation and spatial analysis using a GIS platform. The book includes extensive valuable experimental data presented in a clear and concise manner. The thermal atlas methodology based on empirical modeling and spatial analysis described is a useful climate responsive design tool for both urban designer and architects. As such, the book is of particular interest to researchers, professionals and graduate students in the fields of urban planning and design, building science and urban climatology. The Sustainable City VIII (2 Volume Set) S.S.

Zubir, C.A. Brebbia, 2013-12-03 With majority of the Earth's people now urban dwellers and cities being the most efficient habitat for the utilisation of resources, it is imperative that we continue to support standards of living and efficiencies of urban areas. However, the urbanisation process has not been without its problems. While much has been done to address the original issues surrounding the quality of urban life, new challenges continue to arise. It is no longer sustainable to achieve improvements by means that require greater and greater energy consumption as we did in the past. Despite their complexity, however, cities are a great laboratory for architects, engineers and other key professionals to apply new ideas and new technology to meet our requirements for more sustainable city environments. Containing papers presented at the latest in a series of conferences organised by the Wessex Institute of Technology, these proceedings split into two volumes address not just environmental, architectural and engineering concerns but also quality of life, security risk and heritage. The diversity of topics and the case studies based on existing projects make the book an important contribution to the literature on urban planning. *Urban Forestry and Arboriculture in Malaysia* Sreetheran Maruthaveeran, Wendy Y. Chen, Justin

Morgenroth, 2022-11-29 This book represents the latest research on urban forestry in a Malaysian context. It demonstrates that urban forestry is concerned not only with environmental enhancement but also other aspects such as recreation, health and well-being and government policies. This edited collection provides a comprehensive overview of urban forestry studies from various researchers in Malaysia and includes rich historical perspectives of urban forestry in the country. It also tackles related issues in policy. The greening of urban Malaysia in the 1970s focused primarily on beautification and was primarily the province of horticulturists, landscapers, nursery workers, town planners and architects with negligible inputs from foresters, particularly urban foresters. Perhaps for that reason, the term landscaping has been used more widely than urban forestry by government and private institutions, politicians, stakeholders, academicians and the public. Nevertheless, the authors show that the concept of urban forestry is not new for developing countries such as Malaysia where urbanization is increasing at a rapid rate. The book unpacks this demographic shift from a predominantly rural to a principally urban society. As the only unified body of work on urban forestry and arboricultural studies in Malaysia, this volume presents an important interdisciplinary reference for students, researchers and scholars in physical geography, forestry and urban forestry.

arboriculture and landscape architecture both in Malaysia and in other developing urbanizing countries particularly in Southeast Asia It is also an important resource for those working in environmental policy and practice excavating the vital connection between the environment and well being

Shaping Neighbourhoods Hugh Barton, Marcus Grant, Richard Guise, 2021-06-29 Shaping Neighbourhoods is unique in combining all aspects of the spatial planning of neighbourhoods and towns whilst emphasising positive outcomes for people's health and global sustainability This new edition retains the combination of radicalism evidence based advice and pragmatism that made earlier editions so popular This updated edition strengthens guidance in relation to climate change and biodiversity tackling crises of population health that are pushing up health care budgets but have elements of their origins in poor place spatial planning such as isolation lack of everyday physical activity and respiratory problems It is underpinned by new research into how people use their localities and the best way to achieve inclusive healthy low carbon settlements The guide can assist with Understanding the principles for planning healthy and sustainable neighbourhoods and towns Planning collaborative and inclusive processes for multi sectoral working Developing know how and skills in matching local need with urban form Discovering new ways to integrate development with natural systems Designing places with character and recognising good urban form Whether you are a student faced with a local planning project a public health professional planner urban designer or developer involved in new development or regeneration a council concerned with promoting healthy and sustainable environments or a community group wanting to improve your neighbourhood you will find help here

Advances in the Development of Cool Materials for the Built Environment Dionysia-Denia Kolokotsa, Mattheos Santamouris, Hashem Akbari, 2013-02-20 This e book is a suitable reference on the technical and scientific competence related to effective application and integration of cool materials in the built environment The e book is an overview on the following The role of cool materials in the built environment Major cool materials techniques and their benefits and drawbacks Research trends in cool materials for the built environment Technical guidelines for instrumentation testing and rating of cool materials Policy and economic aspects of cool materials necessary for the management of built environments Case studies where the cool materials are implemented This e book is a suitable reference on the technical and scientific competence related to effective application and integration of cool materials in the built environment The e book is an overview on the following The role of cool materials in the built environment Major cool materials techniques and their benefits and drawbacks Research trends in cool materials for the built environment Technical guidelines for instrumentation testing and rating of cool materials Policy and economic aspects of cool materials necessary for the management of built environments Case studies where the cool materials are implemented

Defining the Urban Deljana Iossifova, Christopher N.H Doll, Alexandros Gasparatos, 2017-10-02 What is urban How can it be described and contextualised How is it used in theory and practice Urban processes feature in key international policy and practice discourses They are at the core of research agendas across traditional academic disciplines and emerging interdisciplinary

fields However the concept of the urban remains highly contested both as material reality and imaginary construct The urban remains imprecisely defined Defining the Urban is an indispensable guide for the urban transdisciplinary thinker and practitioner Parts I and II focus on how Academic Disciplines and Professional Practices respectively understand and engage with the urban Included among others are Architecture Ecology Governance and Sociology Part III Emerging Approaches outlines how elements from theory and practice combine to form transdisciplinary tools and perspectives Written by eminent experts in their respective fields Defining the Urban provides a stepping stone for the development of a common language a shared ontology in the disjointed fields of urban research and practice It is a comprehensive and accessible resource for anyone with an interest in understanding how urban scholars and practitioners can work together on this complex theme

Green Roofs and Water Retention in Košice, Slovakia Zuzana Poórová, Zuzana Vranayová, 2019-09-25 This book discusses how climate change and heat islands are a main contributor to water related problems in urban areas in Košice Slovakia Green roofs are used as a tool to assist in solving these water related issues The need to provide housing in urban areas is expected to rise to 66% in 2050 according to the United Nations Many urban areas have seen natural permeable green areas replaced with concrete constructions and hard non permeable surfaces The densification of existing built up areas is responsible for the decreasing vegetation which results in the lack of evapotranspiration cooling the air thereby creating urban heat islands Several studies discussed in this book have shown that natural and permeable surfaces as in the case of green roofs can play a crucial role in mitigating this negative climate phenomenon and providing higher efficiency for buildings leading to savings such as water one of the focal points of this research

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