



EFFECTS OF AIR POLLUTION ON ENVIRONMENT



Effects Of Air Pollution On The Built Environment

Ming Hu



Effects Of Air Pollution On The Built Environment:

The Effects Of Air Pollution On The Built Environment Peter Brimblecombe, 2003-04-08 Air pollution damages materials but it has changed dramatically in the past century with a reduction in the concentration of corrosive primary pollutants in urban atmospheres At the same time architectural styles and types of materials have changed as we have moved to more organically rich photochemically active atmospheres Contemporary air pollutants have the potential to degrade organic coatings and polymers which are of great importance to modern structures while increasing amounts of fine diesel soot spoil the simple lines and smooth areas characteristic of many modern buildings This book examines a range of materials discussing the ways in which they are likely to be damaged by air pollutants It should be of interest to scientists and policymakers dealing with the effects of urban air pollution

Limestone in the Built Environment Bernard J. Smith, 2010 Limestone is a highly successful and widely used building material found in many important historic buildings and new monuments around the world Whilst its success reflects its durability under a wide range of environmental conditions there are still important questions surrounding the selection use and conservation of building limestones In order to make best use of new limestone today and to conserve old limestone most effectively we need to bring modern research methods to bear on understanding the characteristics of different limestones what mortars to use and how key limestones have responded to polluted atmospheres This volume brings together recent interdisciplinary research on these issues illustrating the diversity of innovative techniques that are now being applied to furthering our understanding of building limestones

The built environment and public health: New insights Linchuan Yang, Ruoyu Wang, Bao-Jie He, Yu Ye, Yibin Ao, 2023-02-06

The Built Environment and Public Health Russell P. Lopez, 2012-01-03 THE BUILT ENVIRONMENT AND PUBLIC HEALTH The Built Environment and Public Health explores the impact on our health of the environments we build for ourselves and how public health and urban planning can work together to build settings that promote healthy living This comprehensive text covers origins and foundations of the built environment as a public health focus and its joint history with urban planning transportation and land use infrastructure and natural disasters assessment tools indoor air quality water quality food security health disparities mental health social capital and environmental justice The Built Environment and Public Health explores such timely issues as Basics of the built environment and evidence for its influences How urban planning and public health intersect How infrastructure improvements can address chronic diseases and conditions Meeting the challenges of natural disasters Policies to promote walking and mass transit Approaches to assess and improve air quality and our water supply Policies that improve food security and change how Americans get their food How the built environment can address needs of vulnerable populations Evidence based design practices for hospitals and health care facilities Mental health stressors and health care environments Theories and programs to improve social capital of low income communities How the built environment addresses issues of health equity and environmental justice This important

textbook and resource includes chapter learning objectives summaries questions for discussion and listings of key terms
Companion Web site www.josseybass.com/go/lopez **Energy and Climate in the Urban Built Environment** M.

Santamouris,2013-06-17 Both the number and percentage of people living in urban areas is growing rapidly Up to half of the world's population is expected to be living in a city by the end of the century and there are over 170 cities in the world with populations over a million Cities have a huge impact on the local climate and require vast quantities of energy to keep them functioning The urban environment in turn has a big impact on the performance and needs of buildings The size scale and mechanism of these interactions is poorly understood and strategies to mitigate them are rarely implemented This is the first comprehensive book to address these questions It arises out of a programme of work POLISTUDIES carried out for the Save programme of the European Commission Chapters describe not only the main problems encountered such as the heat island and canyon effects but also a range of design solutions that can be adopted both to improve the energy performance and indoor air quality of individual buildings and to look at aspects of urban design that can reduce these climatic effects The book concludes with some examples of innovative urban bioclimatic buildings The project was co-ordinated by Professor Mat Santamouris from the University of Athens who is also the editor of the book Other contributions are from the University of Thessaloniki Greece ENTPE Lyons France and the University of Stuttgart Germany **Building foundations: How**

neighborhood social and built environment factors impact children's learning Parisa Parsafar,Brett Miller,2024-01-25 **Economics for the Modern Built Environment** Les Ruddock,2008-10-10 Recent decades have seen

a major social and economic changes across the developed world and consequent changes in the construction and property industries The discipline of construction economics needs to respond to this For instance the importance of sustainable development has become recognised as has the need to increasingly master the medium Pollutant Dispersion in Built Environment Tingzhen Ming,Chong Peng,Tingrui Gong,Zhengdong Li,2017-02-16 This book discusses energy transfer fluid flow and pollution in built environments It provides a comprehensive overview of the highly detailed fundamental theories as well as the technologies used and the application of heat and mass transfer and fluid flow in built environments with a focus on the mathematical models and computational and experimental methods It is a valuable resource for researchers in the fields of buildings and environment heat transfer and global warming *Nearly Zero Energy Building Refurbishment*

Fernando Pacheco Torgal,Marina Mistretta,Artūras Kaklauskas,Claes G. Granqvist,Luisa F. Cabeza,2013-10-22 The recast of the Energy Performance of Buildings Directive EPBD was adopted by the European Parliament and the Council of the European Union on 19 May 2010 For new buildings the recast fixes 2020 as the deadline for all new buildings to be nearly zero energy and even sooner for public buildings by the end of 2018 This book gives practitioner an important tool to tackle the challenges of building refurbishment towards nearly zero energy This book is welcome at this time and sets the scene for professionals whether practitioners or researchers to learn more about how we can make whether old or new buildings more

efficient and effective in terms of energy performance Proceedings of the 14th International Conference on Sustainable Built Environment Ranjith Dissanayake, Priyan Mendis, Sudhira De Silva, Shiromal Fernando, Chaminda Konthesingha, Upul Attanayake, Pradeep Gajanayake, 2024-08-27 This book highlights the latest knowledge and innovations in the fields of civil engineering and construction industry striving for a sustainable built environment This book consists of high quality innovative research findings selected from the proceedings of the 14th International Conference on Sustainable Built Environment ICSBE 2023 under the themes of Sustainable construction urban green infrastructure and planning rainwater harvesting and water conservation high performance concrete indoor environmental quality and indoor plants wind and hydro power energy waste and wastewater management for enhanced sustainability impacts of climate change carbon footprint global climate model and landscaping material flows and industrial ecology sustainable materials etc

Synergistic Design of Sustainable Built Environments Chitrarekha Kabre, 2020-11-09 Synergistic Design of Sustainable Built Environments introduces and illustrates a novel systems approach that fosters both design excellence and a leap toward a more biocentric ecologically sustainable design paradigm The book provides a deeper understanding of the theories and principles of biocentric design and offers detailed descriptions of the synergistic design process of integrating theories and principles into practice It also presents extensive thermal and visual built environment design strategies along with qualitative and quantitative information that designers can use to generate feasible solutions in response to varying climate and occupant comfort Features Examines the principles and practices of the synergistic design a fusion of anthropocentric and biocentric of sustainable built environments and how they relate to practical applications Presents climatic data and its analysis along with sun path diagrams for numerous cities to aid in the design of sustainable built environments in multiple regional contexts Includes numerous case studies of sustainable built environments in varying climatic zones Explains how renewable energy solar wind biomass geothermal hydro fuel cells can be successfully integrated in the built environment This forward thinking and highly illustrated book will be an invaluable reference to all those concerned with sustainable built environments and related architectural issues *Sustainable Built Environment - Volume II* Fariborz Haghighat, Jong-Jin Kim, 2009-11-10 Sustainable Built Environment is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Environmental conservation and technological innovation are two principal forces that drive the building industry toward the future Technological innovation offers many opportunities to make buildings more dynamic and comfortable and occupants more comfortable and productive The necessity of environmental conservation on the other hand compels all types of developments and human activities to be environmentally responsive The content of the Theme on Sustainable Built Environment is organized with state of the art presentations covering several topics Urban Design Emerging Issues in Building Design Environment Energy and Health in Housing Design Culture Management Strategies and

Policy Issues in the Sustainable Built Environment Using Technology to Improve the Quality of City Life Urban and Regional Transportation which are then expanded into multiple subtopics each as a chapter These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Women and Health Marlene B. Goldman, Rebecca Troisi, Kathryn M. Rexrode, 2012-12-31 Women and Health is a comprehensive reference that addresses health issues affecting women of all ages from adolescence through maturity It goes far beyond other books on this topic which concentrate only on reproductive health and has a truly international perspective It covers key issues ranging from osteoporosis to breast cancer and other cancers domestic violence sexually transmitted diseases occupational hazards eating disorders heart disease and other chronic illnesses substance abuse and societal and behavioral influences on health In this second edition of Women and Health chapters thoughtfully explore the current state of women's health and health care including the influences of sex and gender on the occurrence of a wide variety of diseases and conditions All chapters have been extensively updated and emphasize the epidemiology of the condition the etiology occurrence primary and secondary prevention screening risk factors surveillance changing trends over time and critical analysis of the diagnostic and treatment options and controversies Treatment sections in each chapter have been expanded to create a stronger dialogue between epidemiologists and women's health practitioners Saves researchers and clinicians time in quickly accessing the very latest details on a broad range of women's health issues as opposed to searching through thousands of journal articles Provides a common language for epidemiologists public health practitioners and women's health specialists to discuss the behavioral cultural and biological determinants of women's health Researchers and medical specialists will learn how the gender specific risks and features of one organ system's diseases affect the health of other organ systems For example Hormone replacement therapy used to treat imbalance within the endocrine system is also being used to prevent and treat cardiovascular disease Drugs developed for type 2 diabetes are now being used in chemoprevention Orients the non gerontologist about the importance of considering the entire life cycle of women within research designs and treatment plans Professors teaching courses in women's health will use slides and additional materials to structure lectures courses students will use slides as a unique resource to study for exams

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 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 built environment

Mental Health and the Built Environment David Halpern,1995 This text explores the relationship between the planned or built environment and the occurrence of mental ill health It discusses topics such as the impact of the environment as a source of stress and the effects that the environment can have on the quality of relationships between people

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

Materials for a Healthy, Ecological and Sustainable Built Environment Emina K. Petrović,Brenda Vale,Maibritt Pedersen Zari,2017-03-23 Principles for Evaluating Building Materials in Sustainable Construction Healthy and Sustainable Materials for the Built Environment provides a comprehensive overview of the issues associated with the selection of materials for sustainable construction proposing a holistic and integrated approach The book evaluates the issues involved in choosing materials from an ecosystem services perspective from the design stage to the impact of materials on the health of building users The three main sections of the book discuss building materials in relation

to ecosystem services the implications of materials choice at the design stage and the impact of materials on building users and their health The final section focuses on specific case studies that illustrate the richness of solutions that existed before the rise of contemporary construction and that are consistent with a sustainable approach to creating built environments These are followed by modern examples which apply some if not all of the principles discussed in the first three sections of the book Provides a holistic and integrated approach to the issues associated with the selection of materials for sustainable construction Provides a thorough understanding of ecosystem services based on ecology research for built environment design Provides an original review of the impact of materials on human health Provides case studies to illustrate the points above

A Circular Built Environment in the Digital Age Catherine De Wolf,Sultan Çetin,Nancy M. P. Bocken,2024-01-03 This open access book offers a comprehensive exploration of the digital innovations that have emerged in recent years for the circular built environment Each chapter is meticulously crafted to ensure that both academic readers and industry practitioners can grasp the inner workings of each digital technology understand its relevance to the circular built environment examine real life implementations and appreciate the intriguing business models behind them Our primary objective is to blend scholarly knowledge with practical inspiration by providing real life case studies for each innovation The authors who possess extensive expertise in their respective fields have contributed chapters dedicated to digital technologies within their areas of specialization The book is organized into three distinct parts The first part focuses on data driven digital technologies and delves into how their capabilities can facilitate the transition to a circular built environment Essential aspects such as building information modeling BIM digital twins geographical information systems GIS scanning technologies artificial intelligence AI data templates and material passports are explored as vital tools for data collection integration and analysis in the context of circular construction In the second part various digital technologies for design and fabrication are introduced Topics covered include computational design algorithms additive and subtractive manufacturing robotic manufacturing and extended reality These discussions shed light on how these technologies can be leveraged to enhance design and fabrication processes within the circular built environment Finally the last part of the book presents emerging digital concepts related to business and governance It explores the role of deconstruction and reverse logistics blockchain technology digital building logbooks and innovative business models as enablers of circularity in the built environment The book concludes with a chapter dedicated to digital transformation and its potential to propel the built environment towards a regenerative future In addition to the substantive content the book features forewords and perspectives from esteemed experts providing valuable economic and creative insights to complement its comprehensive approach

Sustainable Built Environment - Volume I Fariborz Haghighat,Jong-Jin Kim,2009-11-10 Sustainable Built Environment is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Environmental conservation and

technological innovation are two principal forces that drive the building industry toward the future Technological innovation offers many opportunities to make buildings more dynamic and comfortable and occupants more comfortable and productive The necessity of environmental conservation on the other hand compels all types of developments and human activities to be environmentally responsive The content of the Theme on Sustainable Built Environment is organized with state of the art presentations covering several topics Urban Design Emerging Issues in Building Design Environment Energy and Health in Housing Design Culture Management Strategies and Policy Issues in the Sustainable Built Environment Using Technology to Improve the Quality of City Life Urban and Regional Transportation which are then expanded into multiple subtopics each as a chapter These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Climate Resilient, Green and Low Carbon Built Environment Ashok Kumar Jain, 2023-04-26 This book constitutes state of the art research covering a wide range of topics including climate change and carbon emissions air quality and pollution control urbanism land and circular economy sustainable transport energy water biodiversity and greenery environmental services housing and construction with respect to the built environment The concepts of sustainability in built environment conclude with reimagining the city The content includes pedagogical features such as examples simple flowing language and over 100 figures The book aims to motivate architects engineers consultants builders and planners to respond to the challenges of sustainability in the built environment

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