



# Architecture And The Environment

**Carmela Cucuzzella, Sherif Goubran**



## **Architecture And The Environment:**

The Environments of Architecture Randall Thomas, Trevor Garnham, 2007-09-13 This well illustrated think piece provides a much needed and topical philosophical introduction to the place of environmental design in architecture The Environments of Architecture sets out a range of considerations necessary to produce appropriate internal environments in the context of a wider discussion on the effect of building decisions on the broader environment The authors from architecture and engineering academia and practice provide a rounded and well balanced introduction to this important topic Starting from a belief that the built environment can contribute more positively to the planet and the pleasure of places as well as answering the practical demands of comfort they cover site planning form materials construction and operation as well as looking at design on a city level Presenting a thoughtful and stimulating approach to the built environment this book forms an excellent guide for practitioners students and academics concerned with our built environment

**Sustainable Environmental Design in Architecture** Stamatina Th. Rassia, Panos M. Pardalos, 2012-02-02 Over the last few decades there have been dramatic improvements in the understanding and research of environmental design Numerous methods have been developed to enhance architectural design in order for it to be more energy efficient sustainable and health enhancing This book presents several theories and techniques that can be used to improve how buildings are engineered and designed in order to utilize more sustainable construction methods while promoting the health of the building s occupants Contributions to the study of environmental design have come from a diversity of fields including applied mathematics optimization computer science medical research psychology management science architecture and engineering The techniques developed in these areas of research can be used to increase building performance occupant satisfaction productivity and well being and reducing the incidence of health conditions and chronic diseases related to the use of a designed space This book provides architectural practitioners civil engineers as well as other interdisciplinary researchers with the techniques needed to design implement and test for sustainability and health promotion in new or existing structures

**The Environmental Tradition** Dean Hawkes, 1996 This text brings together a unique collection of writing by a leading researcher and critic which outlines the evolution of the environmental dimension of architectural theory and practice in the past twenty five years It deals with the transformation of the environmental design field which was brought about by the growth of energy awareness in the 1970s and 1980s and places environmental issues in the broader theoretical and historical context in architecture

**Sustainable Design** Daniel E. Williams, 2007-05-01 Meeting the Challenge of Sustainable Design Daniel Williams s Sustainable Design is a thoroughly practical call for the design professions to take the next steps toward transformation of the human prospect toward a future that is sustainable and sustaining of the best in human life lived in partnership not domination From the Foreword by David W Orr the Paul Sears Distinguished Professor of Environmental Studies and Politics and Chair of the Environmental Studies Program at Oberlin College In this pioneering book Daniel Williams provides the sort

of intelligent thoughtful experienced insights that if followed will ensure that we make the right choices It should be on the desk of every architect in the world Denis Hayes president and CEO of the Bullitt Foundation and coordinator of the first Earth Day in 1970 Architects identify sustainability as the most important change in the future of their profession Sustainable Design Ecology Architecture and Planning is a practical comprehensive guide to design and plan a built environment compatible with the region s economic social and ecological patterns In this book Daniel Williams challenges professionals to rethink architecture and to see their projects not as objects but as critical connected pieces of the whole essential to human health as well as to regional economy and ecology Comprehensive in scope Sustainable Design answers key questions such as How do I begin thinking and designing ecologically What is the difference between green design and sustainable design What are some examples of effective change I can make that will have the most impact for the least cost Written for architects planners landscape architects engineers public officials and change agent professionals this important resource defines the issues of sustainable design illustrates conceptual and case studies and provides support for continued learning in this increasingly central focus of architects and urban planners work Williams s book features winning projects from the first decade of the AIA s Committee on the Environment COTE Top Ten award program

**The Elements of Architecture** Scott Drake,2014-02-04 The Elements of Architecture is a clear and well structured introduction to sustainable architecture which concentrates on general principles to make an accessible and comprehensive primer for undergraduate students The author takes a fresh and logical approach focusing on the way aspects of the built environment are experienced by the occupants and how that experience is interpreted in architectural design He works through basic elements and senses sun heat light sound air water and fire to explain and frame effective environmental architectural design not only arguing that the buildings we inhabit should be viewed as extensions of our bodies that interact with and protect us from these elements but also using this analogy to explain complex ideas in an accessible manner

[The Built Environment](#) Wendy R. McClure, Tom J. Bartuska,2011-09-09 This book takes a sweeping view of the ways we build things beginning at the scale of products and interiors to that of regions and global systems In doing so it answers questions on how we effect and are affected by our environment and explores how components of what we make from products buildings and cities are interrelated and why designers and planners must consider these connections

**Energy and Environment in Architecture** Nick Baker, Koen Steemers,2003-09-02 A unique and revolutionary text which explains the principles behind the LT Method 2 1 a manual design tool developed in Cambridge by the BRE The LT Method is a unique way of estimating the combined energy usage of lighting heating cooling and ventilation systems to enable the designer to make comparisons between options at an early strategic stage In addition Energy and Environment in Architecture the book deals with other environmental issues such as noise thermal comfort and natural ventilation design A variety of case studies provide a critique of real buildings and highlight good practice These topics include thermal comfort noise and natural ventilation

**Sustainable Architecture - Between Measurement and Meaning** Carmela Cucuzzella, Sherif Goubran, 2020-09-08

Each day new articles books and reports present new methods standards and technologies for achieving sustainability in architecture Additionally new materials technological gadgets and data are increasingly considered the staples of architecture s future As we increasingly embrace this techno advancement we must be equally aware that we may be pushing architecture into a managerial science and away from its core concerns such as expression contextuality functionality and aesthetics Sustainable architecture that is focused on the abstract measurements of consumption energy and emissions loses sight of the vital role that architecture holds in our world it is the field that creates our public spaces and our places of dwelling of business of production of leisure and creation Additionally it fails to comprehend the human dimension of buildings as elements that are deeply connected to their sites historic contexts and that play a key role in defining our social relations and our connection to the spaces we occupy and utilize Sustainable Architecture Between Measurement and Meaning takes a step back to reflect on how sustainability in the built environment can be theorized and practiced critically This book exposes that architecture remains a human and social science that lies at the intersection of measurements and meanings It reveals that sustainable architecture can still operate in a dialectic space of expression rather than serving as a manifesto for either the technical or socio cultural extremes It purports that the human intuition senses and skills still holds the key to unravelling alternative futures of sustainable built spaces And that most importantly humans still have a place in sustainable architecture This book will be of interest to students early career scholars established researchers and practitioners studying sustainability in the built environment It can be used as a referencee to those in the fields of design architecture landscape and urban design urban studies geography social sciences and engineering

**Architecture and the Environment** David Lloyd Jones, 1998 Green architecture has commonly been seen as separate from mainstream architecture and has been accorded the status of worthy but dull design David Lloyd Jones seeks to correct this judgement as he showcases 44 contemporary projects

**Sustainability in Architecture and Urban Design** Carl Bovill, 2014-11-20 Sustainability in Architecture and Urban Design will help you understand the nature of the sustainability problem and show you how to implement your design for a sustainable future Organized in six parts the problem the environment the residential scale the commercial scale the urban scale and energy sources the book presents essential information in context so that you get the full picture Hundreds of drawings sketches charts and diagrams illustrate points author Carl Bovill makes in his clear and direct style which communicates the basics in a concise way You ll learn About environmental economics How sustainable architectural design relates to ecology How fractal geometry can lead to a new understanding of the structure of the world around us How to design energy efficient houses and commercial buildings How to design and live in our cities to lower energy use per person About LEED points at all scales A glossary and reading lists encourage you to explore the topics further

**Welcome to Your World** Sarah Williams Goldhagen, 2017-04-11 One of the

nation's chief architecture critics reveals how the environments we build profoundly shape our feelings, memories, and well-being and argues that we must harness this knowledge to construct a world better suited to human experience. Taking us on a fascinating journey through some of the world's best and worst landscapes, buildings, and cityscapes, Sarah Williams Goldhagen draws from recent research in cognitive neuroscience and psychology to demonstrate how people's experiences of the places they build are central to their well-being, their physical health, their communal and social lives, and even their very sense of themselves. From this foundation, Goldhagen presents a powerful case that societies must use this knowledge to rethink what and how they build: the world needs better designed, healthier environments that address the complex range of human individual and social needs. By 2050, America's population is projected to increase by nearly seventy million people. This will necessitate a vast amount of new construction, almost all in urban areas that will dramatically transform our existing landscapes, infrastructure, and urban areas. Going forward, we must do everything we can to prevent the construction of exhausting, overstimulating environments and enervating, understimulating ones. Buildings, landscapes, and cities must both contain and spark associations of natural light, greenery, and other ways of being in landscapes that humans have evolved to need and expect. Fancy exteriors and dramatic forms are never enough and may not even be necessary; authentic textures and surfaces and careful, well-executed construction details are just as important. Erudite, wise, lucidly written, and beautifully illustrated with more than one hundred color photographs, *Welcome to Your World* is a vital eye-opening guide to the spaces we inhabit physically and mentally, and a clarion call to design for human experience. *The Environmental Imagination*

Dean Hawkes, 2019-11-07

*The Environmental Imagination* explores the relationship between tectonics and poetics in environmental design in architecture. Working thematically and chronologically from the eighteenth century to the present day, this book redefines the historiography of environmental design by looking beyond conventional histories to argue that the environments within buildings are a collaboration between poetic intentions and technical means. In a sequence of essays, the book traces a line through works by leading architects of the nineteenth and twentieth centuries that illustrate the impact of new technologies on the conception and realisation of environments in buildings. In this, a consideration of the qualitative dimension of environment is added to the primarily technological narratives of other accounts. In this second edition, the book has been substantially rewritten and restructured to include further research conducted in the decade since the first edition. A number of important buildings have been revisited in order to extend the descriptions of their environments, and studies have been made of a number of newly studied significant buildings. A completely new essay offers an environmental interpretation of Luis Barragán's magical own house in Mexico City, and the earlier studies of buildings by Peter Zumthor have been gathered into a single extended essay that includes a body of new research. On the fiftieth anniversary of the publication of Reyner Banham's *The Architecture of the Well-tempered Environment*, the book concludes with a critical tribute to that seminal text. *The Environmental Imagination* will appeal to academics and practitioners with interests in the

history theory and technology of architecture      **Environmental Diversity in Architecture** Koen Steemers, Mary Ann Steane, 2004 This book takes the position that the dynamics of the architectural environment is a key aspect of good design yet poorly understood      **Sustainable Architecture - Between Measurement and Meaning** Carmela Cucuzzella, Sherif Goubbran, 2021-01-05 Each day new articles books and reports present new methods standards and technologies for achieving sustainability in architecture Additionally new materials technological gadgets and data are increasingly considered the staples of architecture s future As we increasingly embrace this techno advancement we must be equally aware that we may be pushing architecture into a managerial science and away from its core concerns such as expression contextuality functionality and aesthetics Sustainable architecture that is focused on the abstract measurements of consumption energy and emissions loses sight of the vital role that architecture holds in our world it is the field that creates our public spaces and our places of dwelling of business of production of leisure and creation Additionally it fails to comprehend the human dimension of buildings as elements that are deeply connected to their sites historic contexts and that play a key role in defining our social relations and our connection to the spaces we occupy and utilize Sustainable Architecture Between Measurement and Meaning takes a step back to reflect on how sustainability in the built environment can be theorized and practiced critically This book exposes that architecture remains a human and social science that lies at the intersection of measurements and meanings It reveals that sustainable architecture can still operate in a dialectic space of expression rather than serving as a manifesto for either the technical or socio cultural extremes It purports that the human intuition senses and skills still holds the key to unravelling alternative futures of sustainable built spaces And that most importantly humans still have a place in sustainable architecture This book will be of interest to students early career scholars established researchers and practitioners studying sustainability in the built environment It can be used as a referencee to those in the fields of design architecture landscape and urban design urban studies geography social sciences and engineering

*Geostories* Rania Ghosn, El Hadi Jazairy, 2018 ING\_08 Review quote      [Sustainable Design for the Built Environment](#) Rob Fleming, Saglinda H Roberts, 2019-01-18 Sustainable Design for the Built Environment marks the transition of sustainable design from a specialty service to the mainstream approach for creating a healthy and resilient built environment This groundbreaking and transformative approach introduces sustainable design in a clear concise easy to read format This book takes the reader deep into the foundations of sustainable design and creates a holistic and integrative approach addressing the social cultural ecological and aesthetic aspects in addition to the typical performance driven goals The first section of the book is themed around the origins principles and frameworks of sustainable design aimed at inspiring a deeper broader and more inclusive view of sustainability The second section examines strategies such as biophilia and biomimicry adaptation and resilience health and well being The third section examines the application of sustainability principles from the global urban district building and human scale illustrating how a systems thinking approach allows sustainable design to span the context

of time space and varied perspectives This textbook is intended to inspire a new vision for the future that unites human activity with natural processes to form a regenerative coevolutionary model for sustainable design By allowing the reader an insightful look into the history motivations and values of sustainable design they begin to see sustainable design not only as a way to deliver green buildings but as a comprehensive and transformative meta framework that is so needed in every sector of society Supported by online resources including additional reading for each chapter and classroom assignments this book will be essential reading for students of sustainability and sustainable design

### **Architecture and Systems Ecology**

William W. Braham,2015-08-11 Modern buildings are both wasteful machines that can be made more efficient and instruments of the massive metropolitan system engendered by the power of high quality fuels A comprehensive method of environmental design must reconcile the techniques of efficient building design with the radical urban and economic reorganization that we face Over the coming century we will be challenged to return to the renewable resource base of the eighteenth century city with the knowledge technologies and expectations of the twenty first century metropolis This book explores the architectural implications of systems ecology which extends the principles of thermodynamics from the nineteenth century focus on more efficient machinery to the contemporary concern with the resilient self organization of ecosystems Written with enough technical material to explain the methods it does not include in text equations or calculations relying instead on the energy system diagrams to convey the argument Architecture and Systems Ecology has minimal technical jargon and an emphasis on intelligible design conclusions making it suitable for architecture students and professionals who are engaged with the fundamental issues faced by sustainable design The energy systems language provides a holistic context for the many kinds of performance already evaluated in architecture from energy use to material selection and even the choice of building style It establishes the foundation for environmental principles of design that embrace the full complexity of our current situation Architecture succeeds best when it helps shape accommodate and represent new ways of living together

### **Understanding Sustainable Architecture**

Helen Bennetts,Antony Radford,Terry Williamson,2003-09-02 Understanding Sustainable Architecture is a review of the assumptions beliefs goals and bodies of knowledge that underlie the endeavour to design more sustainable buildings and other built developments Much of the available advice and rhetoric about sustainable architecture begins from positions where important ethical cultural and conceptual issues are simply assumed If sustainable architecture is to be a truly meaningful pursuit then it must be grounded in a coherent theoretical framework This book sets out to provide that framework Through a series of self reflective questions for designers the authors argue the ultimate importance of reasoned argument in ecological social and built contexts including clarity in the problem framing and linking this framing to demonstrably effective actions Sustainable architecture then is seen as a revised conceptualisation of architecture in response to a myriad of contemporary concerns about the effects of human activity The aim of this book is to be transformative by promoting understanding and discussion of

commonly ignored assumptions behind the search for a more environmentally sustainable approach to development It is argued that design decisions must be based on both an ethical position and a coherent understanding of the objectives and systems involved The actions of individual designers and appropriate broader policy settings both follow from this understanding

*The Architecture of the Well-Tempered Environment* Reyner Banham,2013-10-22 The Architecture of the Well Tempered Environment presents the fundamental aspects of the architecture of the well tempered environment This book considers what architects had taken to be the proper use and exploitation of mechanical environmental controls and shows how this had manifested itself in the design of their buildings Organized into 12 chapters this book begins with an overview of the history of the mechanization of environmental management This text then explains the accumulation of capital goods and equipment needed to produce a moderate level of civilized culture in pre technological societies which requires that building materials be treated as if valuable and permanent Other chapters consider that it is necessary not only to create habitable environments but to conserve them This book discusses as well the kind of technology of environment in the 19th century The final chapter deals with the liberation of architecture from the ballast of structure This book is a valuable resource for architects

**Architecture as Environmental Communication** Asghar T. Minai,2017-03-20 No detailed description available for Architecture as Environmental Communication

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