

# The Architectural Expression of Environmental Control Systems

George Bald



# Architectural Expression Of Environmental Control Systems

**Joseph M. Siry**



## **Architectural Expression Of Environmental Control Systems:**

*The Architectural Expression of Environmental Control Systems* George Baird, 2003-09-02 Examines the ways design teams can take a more creative approach to the design and expression of both active and passive environmental control systems Case Studies from around the world including many award winning buildings *Designing Kinetics for Architectural Facades* Jules Moloney, 2011-06-14 Architectural facades now have the potential to be literally kinetic through automated sunscreens and a range of animated surfaces This book explores the aesthetic potential of these new types of moving facades Critique of theory and practice in architecture is combined here with ideas from kinetic art of the 1960 s From this background the basic principles of kinetics are defined and are used to generate experimental computer animations By classifying the animations a theory of kinetic form called state change is developed This design research provides a unique and timely resource for those interested in the capacity of kinetics to enliven the public face of architecture Extra material including animations can be seen at [www.kineticarch.net/statechange](http://www.kineticarch.net/statechange)

**A Handbook on Low-Energy Buildings and District-Energy Systems** L.D. Danny Harvey, 2012-08-21 Winner of Choice Magazine Outstanding Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions worldwide Reducing energy use by buildings is therefore an essential part of any strategy to reduce greenhouse gas emissions and thereby lessen the likelihood of potentially catastrophic climate change Bringing together a wealth of hard to obtain information on energy use and energy efficiency in buildings at a level which can be easily digested and applied Danny Harvey offers a comprehensive objective and critical sourcebook on low energy buildings Topics covered include thermal envelopes heating cooling heat pumps HVAC systems hot water lighting solar energy appliances and office equipment embodied energy buildings as systems and community integrated energy systems cogeneration district heating and district cooling The book includes exemplary buildings and techniques from North America Europe and Asia and combines a broad holistic perspective with technical detail in an accessible and insightful manner

**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.

**Heating, Cooling, Lighting** Norbert M. Lechner, 2014-09-23 Sustainable environmental control through building design. Heating, Cooling, and Lighting is the industry standard text on environmental control systems with the emphasis on sustainable design. By detailing the many factors that contribute to the comfort in a building, this book helps architects minimize mechanical systems and energy usage over the life of the building by siting building design and landscaping to maximize natural heating, cooling, and lighting. This new fourth edition includes new information on integrated design strategies and designing for the Tropics. Resources include helpful case studies, checklists, diagrams, and a companion website featuring additional cases, an image bank, and instructor materials. Designing buildings that require less energy to heat, cool, and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems. Basic design decisions regarding size, orientation, and form have a great impact on the sustainability, cost, and comfort of a building. Heating, Cooling, and Lighting provides detailed guidance for each phase of a design project. Readers will understand the concept of sustainability as applied to energy sources, review the basic principles of thermal comfort and the critical role of climate, learn the fundamentals of solar responsive design including active and passive solar systems as well as photovoltaics, discover how siting architectural design and landscaping can reduce the requirements for mechanical and electrical systems. In sustainable design, mechanical and electrical systems should be used to only accomplish what the architect could not by the design of the building itself. With this in mind, designers require a comprehensive understanding of both the properties of energy and the human factors involved in thermal comfort. Heating, Cooling, and Lighting is the complete industry leading resource for designers interested in sustainable environmental control.

**Using the Engineering Literature** Bonnie A. Osif, 2006-08-23 The field of engineering is becoming increasingly interdisciplinary, and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of expertise. However, studies have shown that quality information finding skills often tend to be lacking in the engineering profession. Using the Engineerin

**Using the Engineering Literature, Second Edition** Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is information, and then there is correct, appropriate, and timely information. While we might love being able to turn to Wikipedia for encyclopedia-like information or search Google for the thousands of links on a topic, engineers need the best information, information that is evaluated up to date and complete. Accurate, vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans. While the award-winning first edition of Using the Engineering Literature used a roadmap analogy, we now need a three-dimensional analysis.

reflecting the complex and dynamic nature of research in the information age Using the Engineering Literature Second Edition provides a guide to the wide range of resources available in all fields of engineering This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering The information age has greatly impacted the way engineers find information Engineers have an effect directly and indirectly on almost all aspects of our lives and it is vital that they find the right information at the right time to create better products and processes Comprehensive and up to date with expert chapter authors this book fills a gap in the literature providing critical information in a user friendly format *Energy and the New Reality 1* Danny Harvey, 2010-08-12 Reducing and managing humanity's demand for energy is a fundamental part of the effort to mitigate climate change In this the most comprehensive textbook ever written on the subject L D Danny Harvey lays out the theory and practice of how things must change if we are to meet our energy needs sustainably The book begins with a succinct summary of the scientific basis for concern over global warming then outlines energy basics and current patterns and trends in energy use This is followed by a discussion of current and advanced technologies for the generation of electricity from fossil fuels The book then considers in detail how energy is used and how this use can be dramatically reduced in the following end use sectors buildings transportation industry food and agriculture municipal services The findings from these sector by sector assessments are then applied to generate scenarios of how global energy demand could evolve over the coming decades with full implementation of the identified and economically feasible energy saving potential The book ends with a brief discussion of policies that can be used to reduce energy demand but also addresses the limits of technologically based improvements in efficiency in moderating demand and of the need to re think some of our underlying assumptions concern ends with a brief discussing what we really need Along with its companion volume on C free energy supply and accompanied by extensive supplementary online material this is an essential resource for students and practitioners in engineering architecture environment and energy related fields Online material includes Excel based computational exercises teaching slides for each chapter links to free software tools *Sustainable Buildings in Practice* George Baird, 2010-01-29 Current assessment methods of sustainable buildings do not adequately account for the users needs Given that over the life of a building total salary costs far outweigh both operating costs and combined capital and rental costs the occupants needs are not something which should be sensibly ignored This book presents an unbiased evaluation of thirty of the most cutting edge sustainable buildings in the world in terms of the users perceived comfort health and productivity The author has visited the buildings interviewed the design teams and examined the findings of a sixty question standardized user questionnaire The book provides thirty case studies covering mixed mode passive and environmentally sustainable commercial and institutional buildings detailed insights into the principles underlying the design of sustainable buildings worldwide over several climatic zones and eleven countries together with clear explanations and illustrations of innovative design practice a discussion of common issues and

the lessons that may be learnt from a study of the performance of sustainable buildings in practice from the point of view of the people who use them This important book will be of great benefit to architects and engineers facility managers of commercial and institutional buildings as well as developers and researchers academics and students in these fields

**The Architecture of Natural Cooling** Brian Ford,Rosa Schiano-Phan,Juan A. Vallejo,2019-11-15 Overheating in buildings is commonplace This book describes how we can keep cool without conventional air conditioning improving comfort and productivity while reducing energy costs and carbon emissions It provides architects engineers and policy makers with a how to guide to the application of natural cooling in new and existing buildings It demonstrates through reference to numerous examples that natural cooling is viable in most climates around the world This completely revised and expanded second edition includes An overview of natural cooling past and present Guidance on the principles and strategies that can be adopted A review of the applicability of different strategies Explanation of simplified tools for performance assessment A review of components and controls A detailed evaluation of case studies from the USA Europe India and China This book is not just for the technical specialist as it also provides a general grounding in how to avoid or minimise air conditioning Importantly it demonstrates that understanding our environment rather than fighting it will help us to live sustainably in our rapidly warming world

**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

Tall: the design and construction of high-rise architecture Guy Marriage,2019-09-10 This is a guide to both the basics and the details of tall building design delving into the rudimentary aspects of design that an architect of a tall office building must consider as well as looking at the rationale for why and how a building must be built the way it is Liberally illustrated with clear simple black and white illustrations showing how the building structure and details can be built this book greatly assists the reader in their understanding of the building process for a modern office tower It breaks down the building into three main components the structure the core and the facade writing about them and illustrating them in a simple to understand manner By focusing on the nuts and bolts of real life design and construction it provides a practical guide and desk reference to any architect or architecture student embarking on a tall building project

**Guide to Natural Ventilation in High Rise Office Buildings** Antony Wood,Ruba Salib,2013 This guide sets out recommendations for every phase of the planning construction and operation of natural ventilation systems in these buildings including local

climatic factors that need to be taken into account how to plan for seasonal variations in weather and the risks in adopting different implementation strategies All of the recommendations are based on analysis of the research findings from richly illustrated international case studies This is the first technical guide from the Council on Tall Buildings and Urban Habitat s Tall Buildings Sustainability Working Group looking in depth at a key element in the creation of tall buildings with a much reduced environmental impact while taking the industry closer to an appreciation of what constitutes a sustainable tall building and what factors affect the sustainability threshold for tall

[Air-Conditioning in Modern American Architecture, 1890-1970](#) Joseph M. Siry, 2021-02-01 Air Conditioning in Modern American Architecture 1890 1970 documents how architects made environmental technologies into resources that helped shape their spatial and formal aesthetic In doing so it sheds important new light on the ways in which mechanical engineering has been assimilated into the culture of architecture as one facet of its broader modernist project Tracing the development and architectural integration of air conditioning from its origins in the late nineteenth century to the advent of the environmental movement in the early 1970s Joseph M Siry shows how the incorporation of mechanical systems into modernism s discourse of functionality profoundly shaped the work of some of the movement s leading architects such as Dankmar Adler Louis Sullivan Frank Lloyd Wright Ludwig Mies van der Rohe Gordon Bunshaft and Louis Kahn For them the modernist ideal of functionality was incompletely realized if it did not wholly assimilate heating cooling ventilating and artificial lighting Bridging the history of technology and the history of architecture Siry discusses air conditioning s technical and social history and provides case studies of buildings by the master architects who brought this technology into the conceptual and formal project of modernism A monumental work by a renowned expert in American modernist architecture this book asks us to see canonical modernist buildings through a mechanical engineering oriented lens It will be especially valuable to scholars and students of architecture modernism the history of technology and American history

*Urban climate informatics* Ariane Middel, Benjamin Bechtel, Matthias Demuzere, Negin Nazarian, 2023-04-18

*The Environmental Performance of Tall Buildings* Joana Carla Soares Gonçalves, 2010 Tall buildings represent one of the most energy intensive architectural typologies while at the same time offering the high density work and living conditions that many believe will be an important constituent of future sustainable communities How then can their environmental impact be lessened This insightful book takes in an overview of the tall building and its impacts looking at cityscape place mobility microclimate energy and economics design principles and the development of the sustainable tall building global perspectives covering North and South America Europe the Middle East and Asia detailed qualitative case studies of buildings in design and operation the future for sustainable tall buildings Not simply another showcase for future utopian designs and ideals the information presented here is based on hard research from operating buildings Highly illustrated and combining analysis with solid detail for practice this is essential reading for architects building engineers design consultants retrofitters and urban planners interested in or working with tall buildings

and researchers students in these disciplines      *Solar Architecture in Cool Climates* Colin Porteous,2012-04-27 Annotation A must read for practitioners teachers and others interested in or working with energy use in the built environment including a delightful set of examples Anne Grete Hestnes former President of the International Solar Energy Society Includes case studies from Europe and North America dealing with new build retrofitting and conceptual projects that outline future potential Written in a clear accessible style approaching the topic in a thematic manner this will be an invaluable primer for both building professionals and students To implement new techniques in daily practice architects require palatable information combined with convincing arguments This book fulfills this requirement providing inspiration an understanding of key principles and technical data on the design of solar buildings in northern latitudes or the southern equivalent The authors examine how additional costs can be diluted through different strategies the tensions between energy efficiency and environmental quality and the proactive control of energy in building design Promoting flexibility and opportunity to a diverse audience including those who use procure and finance buildings the book aims to bring the design of green buildings in cool climates from special interest status into the mainstream The final chapter meshes technical aspects with the aspirations of users to develop a more sustainable architectural program in which lay players mainly clients effectively sponsor responsible environmental innovation      **Environmental Issues for Architecture** David Lee Smith,2011-02-16

This primer for architects explores the basic physical principles and requirements of every aspect of passive and active controls in buildings Avoiding needless jargon *Environmental Issues for Architecture* supports an understanding of environmental systems in order to inform architectural design With topics ranging from lighting acoustics thermal control plumbing fire protection and egress to elevators and escalators all of the latest technologies are supported Designer friendly this rich resource gives just enough technical information for architects to design buildings that are efficient and comfortable

**Sustainable Mediterranean Construction. Sustainable Environment in the Mediterranean Region: from Housing to Urban and Land Scale Construction** Paola De Joanna,Dora Francese,2012      **Environmental Diversity in Architecture** Mary Ann Steane,Koen Steemers,2004-08-02 This book takes the position that the dynamic of the architectural environment is a key aspect of good design yet one which is not well anticipated or understood Environmental variety is a design characteristic closely related to our experience of architecture an architecture of the senses Each chapter demonstrates how an understanding of a particular context or environmental characteristic in dynamic terms informs design The book is an antidote to the misconceptions of optimum environmental performance or fixed criteria instead embracing the richness of environmental variety



## The Enigmatic Realm of **Architectural Expression Of Environmental Control Systems**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Architectural Expression Of Environmental Control Systems** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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