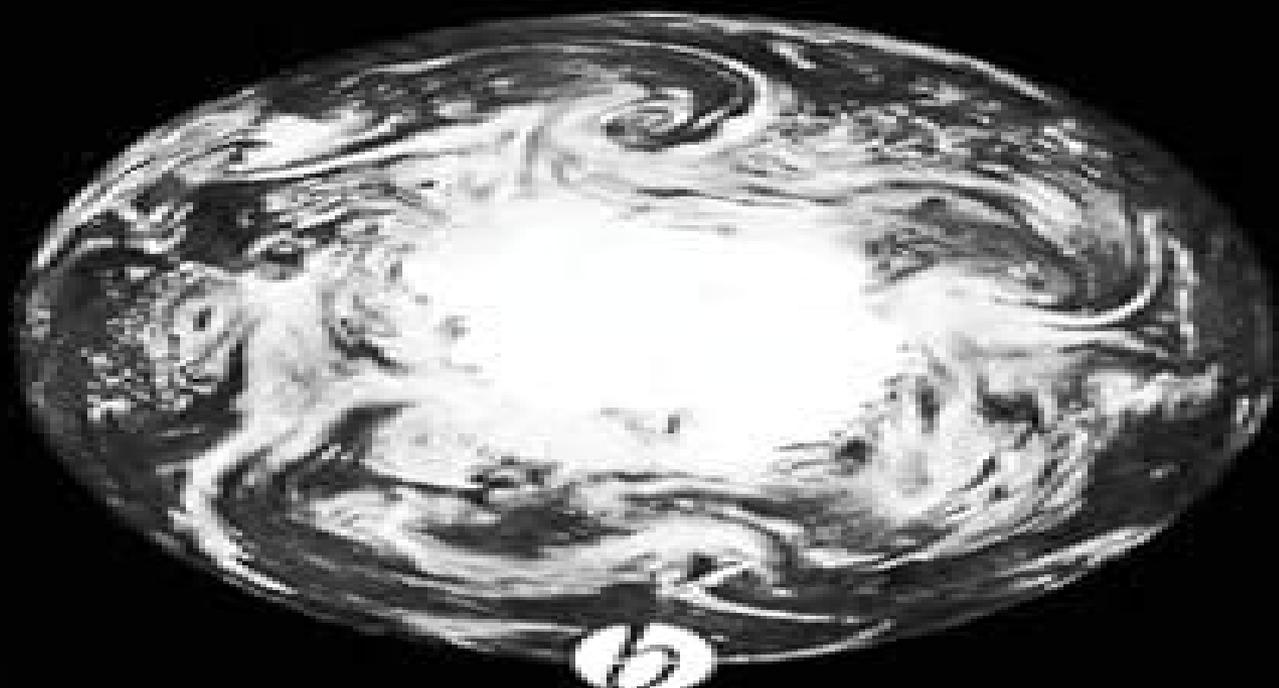


# BUILDING ECOLOGY

FIRST PRINCIPLES FOR A  
SUSTAINABLE BUILT ENVIRONMENT

PETER GRAHAM



  
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# Building Ecology First Principles For A Sustainable Built Environment

**Arthur James Wells**



## **Building Ecology First Principles For A Sustainable Built Environment:**

Building Ecology Peter Graham, 2009-02-12 Buildings consume 40% of our planet's materials and 30% of its energy. Their construction uses up to three million tonnes of raw materials a year and generates 20% of the solid waste stream. If we want to survive our urban future, there is no option but to build in ways which improve the health of ecosystems. Understanding the concept of ecological sustainability and translating it into practice as sustainable development is a key challenge for today's built environment professionals. The skill and vision of those who shape our cities and homes is vital to achieving sustainable solutions to the many environmental, economic, and social problems we face on a local, national, and global scale. Peter Graham offers here a holistic view of ecologically sustainable building by drawing on established areas of knowledge, demonstrating their relevance to the environmentally conscious building professional, and putting the process, product, and impact of building into context. Case studies illustrate how sustainable principles have been applied successfully, and discussion topics are offered to stimulate thought. Building Ecology will help planners, surveyors, designers, and builders to incorporate sustainability into their everyday practice by showing which styles of building are ecologically sustainable, providing fundamental knowledge for making decisions using the principles of ecologically sustainable building, explaining a complex subject in a clear, balanced way. Building Ecology sets out the current scientific view of how nature works and how buildings link with and affect nature. It provides fundamental knowledge for building in harmony with nature and keeping Earth's life-supporting ecosystems healthy.

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.

**Organisational Ethics in the Built Environment** Jason Challender, 2023-09-06 Organisational Ethics in the Built Environment. A comprehensive analysis of the critical role played by ethics in construction organisations and a toolkit.

for implementing a strong ethical culture In *Organisational Ethics in the Built Environment* accomplished construction leader Jason Challender delivers an insightful and important resource for construction industry professionals contributing to the creation of safe and suitable projects The author explains how to construct the foundation for ethical building and business practices in the construction industry and explores the methods motives and rationales behind successful and ethical projects from an organisational and industry perspective You ll learn how practical improvements to organisational ethics can promote ethical standards behaviours and practices and influence the success of projects in the built environment You ll also discover the importance of leadership motivational management human resource management corporate responsibility and social value in encouraging strict compliance and adherence to ethical principles values and standards within organisations Readers will also find A thorough introduction to the critical importance of trust collaborative working and partnering arrangements in contemporary construction and engineering organisations Comprehensive explorations of the relevance of environmental ethics Practical discussions of how to link corporate policies and strategies to ethical guidelines Case studies from across a variety of knowledge fields including manufacturing and retail Perfect for construction managers

*Organisational Ethics in the Built Environment* will also benefit undergraduate and postgraduate students of construction business management engineering and other construction related subjects

*Research in Scientific Feng Shui and the Built Environment* Michael Y. MAK, Albert Ting-pat SO, 2009-02-01 Feng Shui is a body of ancient Chinese knowledge that aims at creating a harmony between environment buildings and people It represented the most significant set of architectural theory and practice in Chinese history Feng Shui knowledge reflected the traditional Chinese attitudes towards the natural and built environment With a desire to improve the relationship between human and the environment there is an increasing interest for architects building professionals and other property practitioners to apply the concepts of Feng Shui in building design As Feng Shui knowledge represents a holistic view in creating harmonized built environment research into the application of Feng Shui to the built environment needs to be addressed

**Regenerative Urban Design and Ecosystem Biomimicry** Maibritt Pedersen Zari, 2018-05-20 It is clear that the climate is changing and ecosystems are becoming severely degraded Humans must mitigate the causes of and adapt to climate change and the loss of biodiversity as the impacts of these changes become more apparent and demand urgent responses These pressures combined with rapid global urbanisation and population growth mean that new ways of designing retrofitting and living in cities are critically needed Incorporating an understanding of how the living world works and what ecosystems do into architectural and urban design is a step towards the creation and evolution of cities that are radically more sustainable and potentially regenerative Can cities produce their own food energy and water Can they be designed to regulate climate provide habitat cycle nutrients and purify water air and soil This book examines and defines the field of biomimicry for sustainable built environment design and goes on to translate ecological knowledge into practical methodologies for architectural and urban design that can proactively respond to climate

change and biodiversity loss These methods are tested and exemplified through a series of case studies of existing cities in a variety of climates Regenerative Urban Design and Ecosystem Biomimicry will be of great interest to students professionals and researchers of architecture urban design ecology and environmental studies as well as those interested in the interdisciplinary study of sustainability ecology and urbanism

**Architecture In Use** DJM van der Voordt,HBR van Wegen,2007-06-01 This unique book discusses programming design and building evaluation providing a joined up approach to building design By linking the functional and architectonic qualities of a building the authors show the practical implications of the utility value of buildings Starting by looking at how the relationship between form and function has been dealt with by different approaches to architecture from a historical perspective it goes on to discuss how the desired functional quality and utility value of a building can be expressed in a brief and given a physical form by the architect Finally it advises on how to carry out post occupancy evaluation and provides the architect with methods and techniques for testing whether the intended utility value of a building has been achieved

**Promoting Sustainable Building Materials and the Implications on the Use of Wood in Buildings** Helen Goodland,2016 This study provides an overview of the current policy and regulatory environment regarding sustainable construction materials in the building sector in Europe and North America and where applicable offers a commentary on the effectiveness of such regimes in driving the adoption of wood products The study s objective has been to conduct a broad survey across a range of policies initiatives and programmes in order to document the current circumstances as a starting point for further discussions technical meetings and policy debates with a view to enhance the use of wood in buildings through policy advice to member states

**Buildings and Climate Change** ,2009 This report produced by UNEP s Sustainable Buildings and Climate Initiative SBCI a think tank and partnership between the United Nations and leading companies and organizations in the building sector presents results from almost three years of research and collaboration with leading experts around the world Buildings contribute to well over one third of global energy use and associated greenhouse gas emissions but also have a huge potential to achieve drastic emission reductions at virtually no cost The current climate footprint from buildings is equivalent to 8.6 billion tons of CO<sub>2</sub> a year and is predicted to almost double to 15.6 billion tons of CO<sub>2</sub> by 2030 In addition the pressure to develop new buildings as a result of population growth urbanization and modernization will lead to an almost doubling of existing building stock in developing countries by 2050 The report highlights the opportunity lying within buildings to deliver cuts in greenhouse gas emissions through

**Architectural Publications Index** ,2003 *Frontiers of Green Building, Materials and Civil Engineering* Dong Ye Sun,Wen Pei Sung,Ran Chen,2011-07-27 Selected peer reviewed papers from the 2011 International Conference on Green Building Materials and Civil Engineering GBMCE 2011 Shangri La China August 22-23 2011

*Ecological Design, Tenth Anniversary Edition* Sim Van der Ryn,Stuart Cowan,2007-03-31 Ecological Design is a landmark volume that helped usher in an exciting new era in green design and sustainability planning Since its initial

publication in 1996 the book has been critically important in sparking dialogue and triggering collaboration across spatial scales and design professions in pursuit of buildings products and landscapes with radically decreased environmental impacts This 10th anniversary edition makes the work available to a new generation of practitioners and thinkers concerned with moving our society onto a more sustainable path Using examples from architecture industrial ecology sustainable agriculture ecological wastewater treatment and many other fields Ecological Design provides a framework for integrating human design with living systems Drawing on complex systems ecology and early examples of green building and design the book challenges us to go further creating buildings infrastructures and landscapes that are truly restorative rather than merely diminishing the rate at which things are getting worse

**Architecture, Building Materials and Engineering Management IV** Chao He Chen,Guang Fan Li,Qi Zhong Shen,Bi Feng Jiang,2014-07-04 Selected peer reviewed papers from the 4th International Conference on Civil Engineering Architecture and Building Materials CEABM 2014 May 24 25 2014 Haikou China

**The British National Bibliography** Arthur James Wells,2004

**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

**Construction Ecology** Charles J. Kibert,Jan Sendzimir,G. Bradley Guy,2003-08-27 Industrial ecology provides a sound means of systematising the various ideas which come under the banner of sustainable construction and provides a model for the design operation and ultimate disposal of buildings

*The Ecology of Architecture* Laura C. Zeiher,1996 Environmentally Conscious Design has become a major interest of architects designers planners public officials and industry leaders around the world Unlike other books on the subject that focus on only one or

another aspect of ecological design The Ecology of Architecture answers the question How do we design and build ecologically sound and affordable structures today that will perform well tomorrow Written by an experienced practitioner in the field the book details all facets of green building by providing comparative energy performance solutions recycling alternatives cost considerations materials analyses information on legislation as well as examples of practical applications

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