



# ENVIRONMENTAL SCIENCE IN BUILDING

Randall McMullan

**EIGHTH  
EDITION**

# Mcmullan Environmental Science In Building

**E Durkheim**



## **Mcmullan Environmental Science In Building:**

**Environmental Science in Building** Randall McMullan, 2017-12-01 This popular textbook covers how the built environment and the management of energy relate to the quality of human living conditions and the environmental performance of buildings. It is the key introductory text for understanding the principles and theories of the environmental science behind construction and the only text on the market to provide the basic scientific principles of such a broad range of topics. The text covers a range of areas in the field including climate change, energy management and sustainability in construction with an important focus on contemporary environmental topics such as carbon lifetime performance and rating schemes. The author is known for his extremely clear, finely crafted text and the book offers a wealth of excellent worked examples. This text is designed to be useful at all levels to students and practitioners of architecture, construction studies, building services, surveying and environmental science. New to this Edition: Expansion upon the environmental narrative with coverage of contemporary topics such as carbon lifetime performance and rating schemes. Additional figures, images and sub-topics in chapters. An updated section on building services to give a broader understanding of modern building services, equipment, options, specifications and performance implications. Inclusion of a new section which offers commentary on the future of environmental science in building.

**Environmental Science in Building R. McMullan** Randall McMullan, 1989  
**GBEN 2006 International Conference on Global Built Environment** Global Built Environment Network, 2008-06  
Proceedings of the GBEN 2006 Conference: Global Built Environment Towards an Integrated Approach for Sustainability. Hosted by the Department of Built Environment, University of Central Lancashire, Preston, UK. Organised jointly by the University of Central Lancashire, Edgehill University and National University of Ireland, Cork. Conference dates: 11-12 September 2006.

A Primer on Environmental Sciences Matthew N. O. Sadiku, Uwakwe C. Chukwu, Olaniyi D. Olaleye, 2022-02-09 In a modern society it is easy to forget that our society depends largely on the environmental processes that govern our world. Environment refers to an aggregate of surroundings in which living beings such as humans, animals and plants live and non-living things exist. It includes air, water, land, living organisms and materials surrounding us. The environment is an important part of our daily lives. Environmental issues are now part of every career path and employment area. Environmental science is an interdisciplinary field that applies principles from all the known technologies and sciences to study the environment and provide solutions to environmental problems. It is the study of how the earth works and how we can deal with the environmental issues we face. There is an ever-demanding need for experts in this field because the environment is responsible for making our world beautiful and habitable. For this reason, environmental science is now being taught at high schools and higher institutions of learning. Education on environmental science will empower the youths to take an active role in the world in which they live.

A Handbook of Sustainable Building Design and Engineering Dejan Mumovic, Mat Santamouris, 2018-10-30 The second edition of this authoritative textbook equips students with the tools they

will need to tackle the challenges of sustainable building design and engineering The book looks at how to design engineer and monitor energy efficient buildings how to adapt buildings to climate change and how to make buildings healthy comfortable and secure New material for this edition includes sections on environmental masterplanning renewable technologies retrofitting passive house design thermal comfort and indoor air quality With chapters and case studies from a range of international interdisciplinary authors the book is essential reading for students and professionals in building engineering environmental design construction and architecture Architecture & Sustainable Development (vol.2) Magali Bodart,Arnaud Evrard,2011-07 This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries

**Building Performance Analysis** Pieter de Wilde,2018-05-31 Explores and brings together the existent body of knowledge on building performance analysis Shortlisted in the CIBSE 2020 Building Performance Awards Building performance is an important yet surprisingly complex concept This book presents a comprehensive and systematic overview of the subject It provides a working definition of building performance and an in depth discussion of the role building performance plays throughout the building life cycle The book also explores the perspectives of various stakeholders the functions of buildings performance requirements performance quantification both predicted and measured criteria for success and the challenges of using performance analysis in practice Building Performance Analysis starts by introducing the subject of building performance its key terms definitions history and challenges It then develops a theoretical foundation for the subject explores the complexity of performance assessment and the way that performance analysis impacts on actual buildings In doing so it attempts to answer the following questions What is building performance How can building performance be measured and analyzed How does the analysis of building performance guide the improvement of buildings And what can the building domain learn from the way performance is handled in other disciplines Assembles the current body of knowledge on building performance analysis in one unique resource Offers deep insights into the complexity of using building performance analysis throughout the entire building life cycle including design operation and management Contributes an emergent theory of building performance and its analysis Building Performance Analysis will appeal to the building science community both from industry and academia It specifically targets advanced students in architectural engineering building services design building performance simulation and similar fields who hold an interest in ensuring that buildings meet the needs of their stakeholders Total Sustainability in the Built Environment Alison Cotgrave,Mike Riley,2012-12-06 The first textbook in sustainable construction bringing together the whole range of topics from planning through to facilities management in an accessible and engaging way and complete with illustrations and photographs Written by experts and including real world case studies this book can be used as a core text or across several modules The book begins with planning issues after which each chapter charts the different stages of the construction process through to

refurbishment of existing buildings This textbook is aimed at undergraduate Built Environment and Construction students or pre degree HND FD students in Architectural Technology and Architecture Building Surveying General Practice Surveying Urban Planning Property Management Quantity Surveying Construction Management Facilities Management and general programmes focussed on the environment It will also be of interest to professionals working for construction and property companies as there are so few resources that give a complete overview of sustainability in construction

The Spaces of Justice Peter Robson,Johnny Rodger,2017-08-13 This book looks at the architecture of the courts in Scotland and the importance of these civic spaces Given the importance of courts to the legal experience it starts by exploring why scholars have been so reticent in examining spaces in which the administration of justice takes place It notes the major changes already unfolding in Scotland and puts these into a historical and cultural context The authors trace the emergence of the notion of the dedicated courtroom space in 19th century Scotland and the ways in which the courtroom setting affected the exercise of power through law They show what factors led to the adoption of different architectural styles They examine the changes in the legal political and social world which drove such changes and how these changed in the 20th and 21st centuries They also examine the symbolic functions of courts both internally and externally They note the changes in the decision makers and their goals in the 21st century and how this will lead to a very different kind of courtroom in the near future They examine the wider factors affecting the process of litigation and trends in dispute resolution They conclude that the goals of transparency and civil dignity have serious implications for the kinds of spaces which will serve as halls of justice in the future Since these are driven it seems by financial imperatives it does not bode well for the retention of civic pride and community which the courts of justice might be said to embody

Sustainable Construction Processes Steve Goodhew,2016-04-13 This book explores the concepts and practicalities that lead to sustainable construction It breaks new ground by providing the reader with the underlying principles of how to build sustainably and then assesses many of the tools required for the task From energy to materials and from procurement to operation all aspects play their part in turning a theoretically sustainable building project into a reality There are many guidelines for the designer on how to maximise the sustainability of buildings but this resource text supplements these by focusing on the construction and operational aspects of sustainable buildings as well as some of the more fundamental design related considerations Offers an excellent text for those learning to construct design and operate sustainable buildings Covers the drivers for sustainable construction definitions historical impacts climate change and global regional and individual responses enables the construction professional to achieve optimum solutions both in design process and the aftercare of buildings evaluates the effectiveness of different renewable technologies and provides guidance on the practicalities of their use Alerts the reader to future trends in this field

Knowledge Management Murray E. Jennex,2008-01-01 Provides comprehensive in depth coverage of all issues related to knowledge management including conceptual methodological technical and managerial issues Presents the

opportunities future challenges and emerging trends related to this subject **The Passivhaus Handbook** Janet Cotterell, Adam Dadeby, 2012-11-30 As we move towards the 2016 zero carbon target in house building Passivhaus construction looks like becoming not just popular in the UK but commonplace This is a no nonsense and engaging introduction on how to do it KEVIN MCCLOUD The Passivhaus Handbook is an essential guide for anyone wanting to realise a supremely comfortable healthy and durable home with exceptionally low energy costs Passivhaus design focuses on getting the building fabric right to achieve ultra low energy consumption cost effectively The approach is relevant to a wide range of building types and climates Its methodology can be combined with elements of other building standards such as the UK s Code for Sustainable Homes CSH or with other sustainable building goals such as a commitment to using low impact or natural building materials Whether you are building an extension retrofitting your house or starting from scratch and whether you are new to low energy design or already have some experience this book will help you navigate around the potential pitfalls and misconceptions It brings together current thinking and best practice The book includes a clear explanation of the underlying building physics and terminology as well as detailed information on key elements of Passivhaus avoiding air leakage designing thermal cold bridges moisture management and ventilation strategy There is also lots of practical advice on setting up a project including developing a motivated project team and a discussion of economic considerations and the policy context in the UK As pressure on global resources increases and energy prices continue to rise the Passivhaus approach proven over 20 years meets the challenge of ultra low energy building for the future

**Environmental Management in Construction** Heng Li, Zhen Chen, 2007-01-24 Demands on the construction industry are changing and it is now virtually essential for environmental management to be considered at all stages of a project Many construction managers are finding a quantitative approach useful and this book outlines four quantitative methods which can be applied at different construction stages and which fit within a comprehensive framework of dynamic Environmental Impact Assessment EIA These include a method to quantitatively evaluate and reduce pollution and hazards levels a method to evaluate the environmental consciousness of proposed construction plans a method to reduce on site construction wastes through an incentive reward programme a method to promote C and D waste exchange in the local construction industry With an experimental case study of the application of these methods this book delivers a comprehensive review of environmental management issues in construction With regulatory requirements potentially favouring the quantitative approach this timely guide ensures that contractors will be able to keep pace with environmental management standards

**Energy, People, Buildings** Judit Kimpian, Sofie Pelsmakers, Hattie Hartman, 2021-03-04 Energy performance feedback is an essential tool in addressing the current climate crisis However this is not simply another theoretical text about energy performance in buildings This book is for anyone who wants to better understand how energy is used in buildings and how to drive down operational energy use whether you re an architect student client building services engineer contractor building

operator or other stakeholder Focusing on evidence from feedback on buildings in use it explains what it takes to get them to perform as expected as well as the reasons why they often fail Energy People Buildings draws extensively on the findings of studies UK government funded building performance evaluations and on original research into seven case studies from across the UK and abroad that have achieved exemplary energy use through building performance feedback Providing a clear roadmap to understanding aspects that impact building users comfort and satisfaction it also outlines the factors behind energy use and how to track it across the life of a project to ensure that your building performs as intended Case studies include the Everyman Theatre Liverpool Rocky Mountain Institute Innovation Center Colorado and Carrowbreck Meadow Norwich Featured architects AHMM AHR Architype Hamson Barron Smith Haworth Tompkins Henning Larsen Architects and ZGF Architects

**Sustainable Construction Technologies** Vivian Y. Tam,Khoa N. Le,2019-01-03 Sustainable Construction Technologies Life Cycle Assessment provides practitioners with a tool to help them select technologies that are financially advantageous even though they have a higher initial cost Chapters provide an overview of LCA and how it can be used in conjunction with other indicators to manage construction Topics covered include indoor environment quality energy efficiency transport water reuse materials land use and ecology and more The book presents a valuable tool for construction professionals and researchers that want to apply sustainable construction techniques to their projects Practitioners will find the international case studies and discussions of worldwide regulation and standards particularly useful Provides a framework for analyzing sustainable construction technologies and economic viability Introduces key credit criteria for different sustainable construction technologies Covers the most relevant construction areas Includes technologies that can be employed during the process of construction or to the product of the construction process i e buildings Analyzes international rating systems and provides supporting case studies

**Proceedings of AICCE'19** Fadzli Mohamed Nazri,2019-11-28 This book gathers the latest research innovations and applications in the field of civil engineering as presented by leading national and international academics researchers engineers and postgraduate students at the AWAM International Conference on Civil Engineering 2019 AICCE 19 held in Penang Malaysia on August 21 22 2019 The book covers highly diverse topics in the main fields of civil engineering including structural and earthquake engineering environmental engineering geotechnical engineering highway and transportation engineering water resources engineering and geomatic and construction management In line with the conference theme Transforming the Nation for a Sustainable Tomorrow which relates to the United Nations 17 Global Goals for Sustainable Development it highlights important elements in the planning and development stages to establish design standards beneficial to the environment and its surroundings The contributions introduce numerous exciting ideas that spur novel research directions and foster multidisciplinary collaborations between various specialists in the field of civil engineering

**Knowledge Management in the Construction Industry: A Socio-Technical Perspective** Kazi, Abdul Samad,2004-11-30 This book presents a portfolio of

concepts methods models and tools supported by real life case studies from various corners of the globe providing insights into the management of knowledge in the construction industry

### **Islamic Heritage Architecture and Art II G**

Passerini, 2018-07-18 Papers presented at the 2nd International Conference on Islamic Heritage Architecture and Art are contained in this volume The conference attracted important research highlighting the significance of Islamic heritage architecture and art to the world and its influence across different regions The papers deal with the design of many types of buildings in Islamic countries including not only the better known public buildings like mosques mausolea citadels and forts but also houses and gardens engineering works such as bridges and dams irrigation systems and many others which have also had a profound impact on society Traditional architecture and urban environment in most Islamic countries is now being eroded by overemphasis on a global type of architecture and city planning As a consequence many regions are losing their identity The included studies review these developments in the light of what classical Islamic urban design and architecture has to offer modern society Research contained in this book provides an analysis of the materials employed and the types of structural elements used particularly those unique to Islamic architecture Associated topics covered include music textiles and ceramics which are essential parts of the architectural fabric Also looked at are construction materials including not only stone and brick but also more perishable materials like adobe wood and reeds The preservation of heritage features also requires the development of appropriate conservation techniques in response to the different materials used and the ways structural forms work including under extreme conditions such as earthquakes Academics researchers practitioners and government employees actively involved in the topic of Islamic heritage architecture and art will find this publication of interest

### **Building Procurement**

Alan Turner, 1997-11-11 This second edition of Building Procurement has been revised to take into account recent developments in procurement such as the Private Finance initiative as well as some of the recommendations in the Latham Report and its working groups The author sets out the basics of the building process the principal players along with general conventions and background information on building contracts and conditions of appointment for consultants Fourteen case studies based on real projects principally from the author's experience are included to illustrate the progressive nature of procurement in practice Examples of good and bad procurement decisions are given in the studies with a postscript and comment on the reasons for success or failure

### **Building Economics**

Ivor H. Seeley, 1996-11-11 This comprehensively rewritten updated and extended new edition of this established text focuses on what has become the most important single facet of the quantity surveyor's role cost management The scope of the book has been broadened to take account of the widening and more sophisticated cost management and control service that clients now require The book examines the factors influencing building costs and how the precontract costs can be estimated analysed and controlled to ensure that buildings can be completed within the agreed budget and timescale and be of acceptable quality function effectively and provide value for money A new chapter on value management has been added together with



an introductory chapter on cost modelling the chapter on life cycling costing is extended while the sections on energy conservation and occupancy costs are expanded Throughout the text many new case studies with supporting tables and diagrams are included in order to enhance the value of this book to the student and the practitioner

## Decoding **Mcmullan Environmental Science In Building**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mcmullan Environmental Science In Building**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Mcmullan Environmental Science In Building Introduction**

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