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an informa business
Around and About Stock Orchard Street
Edited by Sarah Wigglesworth, Sarah Wigglesworth Architects, London, UK

Completed in 2000, 9/10 Stock Orchard Street was experimental in design, execution and inhabitation, and has resisted categorization, challenged received wisdom and provoked debate, especially among architectural critics. With access to all the material records of the project, this book responds to that debate by presenting multi-faceted narratives from a wide range of writers that have been invited to reflect both positively and negatively on what the buildings represent and how they have performed. Using the buildings as the central case study, it situates them in a broader cultural context, revealing the breadth of conversations and issues engaged by architecture.

Highly illustrated with original material, including the authors’ own drawings and with specially-commissioned photographs, this book discusses theory, practice, ethics, material culture, the media, narrative, feminism, sustainability and construction, offering illuminating and sometimes surprising conclusions relevant to lay, professional and academic readers.

While offering a wide ranging set of approaches and critiques of its subject, this book provides a unique insight into a building’s conception, construction and reception, and in turn facilitates the engagement with the issues facing architectural practice today.


April 2011: 276 x 219: 288pp
Hb: 978-0-415-57527-0: £95.00
For more information, visit: www.routledge.com/9780415575294

Spatial Agency: Other Ways of Doing Architecture
Nishat Awan and Tatjana Schneider both at University of Sheffield, UK and Jeremy Till, University of Westminster, UK

This book offers the first comprehensive overview of alternative approaches to architectural practice. At a time when many commentators are noting that alternative and richer approaches to architectural practice are required if the profession is to flourish, this book provides multiple examples from across the globe of how this has been achieved and how it might be achieved in the future.

Particularly pertinent in the current economic climate, this book offers the reader new approaches to architectural practice in a changing world. It makes essential reading for any architect, aspiring or practising.


July 2011: 276 x 219: 224pp
Hb: 978-0-415-57192-0: £95.00
Pb: 978-0-415-57193-7: £24.99
For more information, visit: www.routledge.com/9780415571937

Want more information on a book? Visit the direct URL found at the bottom of the title description.
The Housing Design Handbook
A Guide to Good Practice

David Levitt, Levitt Bernstein Associates, UK

The Housing Design Handbook will give you a complete understanding of what makes successful housing design. Through the analysis of work by Levitt Bernstein and a wide range of other UK practices, it illustrates good design principles and accumulates a wealth of knowledge in a readily accessible format for the first time.

Written by a recognized authority in the field, the book provides:

- a range of cases to illustrate the way that different issues in the design of housing have been approached and with what degree of success
- a discussion of how flexibility might be achieved in order to accommodate future changes in housing need, if wholesale demolition and replacement is to be avoided
- more recent examples which explore why certain social groupings are more resistant to design innovation than others and why there has been such an architectural breakthrough in market led, higher density urban living.

David Levitt examines the ideas behind the schemes and assesses how successful and sustainable those ideas have proved, making this an essential reference for professionals and students practicing and studying the design and commissioning of housing.

Selected Contents:

- Part 1: Built Form
  - 1. Places That Get Better Over Time
  - 2. Mixing Housing with other Uses
  - 3. Terrace Housing and Layout
  - 4. Flats: Their Configuration in Blocks, and How to Make a Flat the Home of Choice for Family Living
  - 5. Internal Space: Guidance, Standards and Regulation
  - 6. Private Open Space
  - 7. Shared Amenities, Indoor Facilities and Outdoor Spaces
  - 8. Security without Fortification
  - 9. Privacy
  - 10. Dealing with Cars

- Part 2: Social Issues
  - 11. Mixing Tenures and Flexible Tenures
  - 12. Tenure and Style
  - 13. Designing in Flexibility

- Part 3: Technical Issues
  - 14. Environmentally Sustainable Planning and Built Form
  - 15. Sustainable Structures
  - 16. Considering ‘Cost in Use’ at the Design Stage

Design for Sustainability. Glossary. Sources of Further Information. Index

2009: 276 x 219: 288pp
Pb: 978-0-415-49150-1: £34.99

For more information, visit: www.routledge.com/9780415491501

Sustainable Buildings in Practice
What the Users Think

George Baird, Victoria University of Wellington, New Zealand

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.

Selected Contents:

- Introduction
- Part 1: Buildings in Cold – Temperate Climates
- Part 2: Buildings in Medium – Temperate Climates
- Part 3: Buildings in Warm – Temperate Climates
- Part 4: Buildings in Hot – Humid Climates

2010: 276 x 219: 352pp
Pb: 978-0-415-39932-6: £34.99
eBook: 978-0-203-86545-3

For more information, visit: www.routledge.com/9780415399326
Innovations in Hospital Architecture

Stephen Verderber, Clemson University, USA

This indispensable reference book captures key recent developments in the rapidly evolving field of sustainable hospital architecture. Today's architects must provide hospitals which enable high quality care for diverse patient populations in carbon neutral care settings, and this book succinctly considers what needs to be done in order to meet that challenge. The contemporary hospital is viewed in the context of global climate change, the planet's diminishing natural resources and the spiralling cost of operating healthcare facilities.

Stephen Verderber considers the future of the hospital, and supplies a compendium of 100 planning and design considerations for the building type. The book includes twenty-eight case studies of built and unbuilt hospitals from around the world. These are grouped into five types – autonomous community based hospitals, children's hospitals, rehabilitation and elderly care centres and hospitals, regional medical centre campuses, and visionary (unbuilt) projects.

Beautifully and extensively illustrated with many photographs, diagrams and floor plans, this is essential reading for all architects, planners, engineers, product manufacturers, clients, healthcare providers and government agencies involved in the present and future of sustainable healthcare environments.


Sustainability and the Design of Transport Interchanges

Brian Edwards, Royal Danish Academy of Fine Arts, Denmark

The 'interchange' is a new form of transport building which brings various modes of public transport together, putting the passenger first (rather than the infrastructure). This book presents design principles for transport interchanges and offers analysis of best practice in the UK and abroad.

The author demonstrates how this complex new building type integrates with the city, on the one hand, and with different types of transport on the other. In this integration of design in both plan and section are important, as is urban and landscape design. The idea of ‘interchange’ is increasingly relevant as town planners, engineers and architects address the question of sustainable development with its emphasis on energy efficiency, social cohesion, access for the elderly, and urban regeneration.


For more information, visit: www.routledge.com/9780415464499
Precedents in Zero-Energy Design
Architecture and Passive Design in the 2007 Solar Decathlon

Michael Zaretsky, University of Cincinnati, USA

‘Michael Zaretsky’s Precedents in Zero-Energy Design is such an important book ... it will help readers recognize that design comes before technology – and renewable energy systems alone can’t solve the problems we face.’ – John D. Quale, Assistant Professor of Architecture and ecoMOD Project Director, University of Virginia

The Solar Decathlon is an international event in which universities from around the world compete in the design and construction of a one-bedroom, zero-energy house. This book provides an in-depth, yet accessible analysis of the architecture and passive design strategies of the houses in the 2007 Solar Decathlon. These houses are the result of thousands of hours of research and development from twenty universities around the world.

Students, educators, practitioners and researchers of architecture, design and engineering will find this an informative and inspirational book. It examines the relationship between design and environmental principles and provides invaluable insight into some of the most innovative, off-the-grid and zero-energy houses in the world.


NEW
Implementing Sustainability
The New Zealand Experience

Caroline L. Miller, Massey University, New Zealand

New Zealand’s Resource Management Act was the first and most extensive attempt to institute sustainability at a national level, covering all resources from land to water. This book provides a comprehensive account of the challenges of implementing sustainability. It offers a practitioner’s insight into the RMA and spells out the lessons that can be applied to planning systems of other countries.

BESTSELLER
WINNER OF THE RIBA PRESIDENTS AWARD FOR RESEARCH 2008
The ZEDbook
Solutions for a Shrinking World

Bill Dunster, Craig Simmons and Bobby Gilbert

Explains the principles behind Zero (fossil) Energy Development, and includes methods and case studies to illustrate the application of ZED standards in construction.

2007: 276 x 219: 276pp
Pb: 978-0-415-39199-3: £40.00
For more information, visit: www.routledge.com/9780415391993

For more information, visit: www.routledge.com/9780415778756

For more information, visit: www.routledge.com/9780415495516
The Environmental Brief
Pathways for Green Design

Richard Hyde, Steve Watson, Wendy Cheshire and Mark Thomson

2007: 276 x 219: 336pp
Hb: 978-0-415-29044-9: £95.00
Pb: 978-0-415-29045-6: £45.00
eBook: 978-0-203-96681-5
For more information, visit: www.routledge.com/9780415290456

Green Building Handbook
A Guide to Building Products and their Impact on the Environment

Tom Woolley, Sam Kimmins, Rob Harrison and Paul Harrison

Green Building Handbook provides a detailed reference for environmentally concerned purchasers of building products, with at-a-glance tables for buyers and specifiers.

The Environments of Architecture
Environmental Design in Context

Randall Thomas and Trevor Garnham

This well-illustrated ’think piece’ provides a much needed and topical philosophical introduction to the place of environmental design in architecture. Written by highly respected authors, this is an excellent guide for practitioners, students and academics.

2007: 246 x 174: 256pp
Hb: 978-0-415-36088-3: £95.00
Pb: 978-0-415-36089-0: £25.99
eBook: 978-0-203-79940-6
For more information, visit: www.routledge.com/9780415360890

Visions of Sustainability
Cities and Regions

Hildebrand Frey and Paul Yaneske

Presenting a framework to direct research needed to achieve and maintain sustainability, this book will be of considerable help to local authorities and political and government bodies establishing guidelines for planning and monitoring sustainable urban development.

2007: 234 x 156: 144pp
Hb: 978-0-415-42647-3: £95.00
Pb: 978-0-415-42648-0: £29.99
For more information, visit: www.routledge.com/9780415426480

Urban Sustainability Through Environmental Design
Approaches to Time-People-Place Responsive Urban Spaces

Edited by Kevin Thwaites, Sergio Porta, Ombretta Romice and Mark Greaves

2007: 246 x 189: 200pp
Hb: 978-0-415-38480-3: £95.00
For more information, visit: www.routledge.com/9780415384803

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New Directions in Sustainable Design
Edited by Adrian Parr and Michael Zaretsky
both at University of Cincinnati, USA

Recently there has been a plethora of work published on the topic of sustainability, much of which is purely theoretical or technical in its approach. More often than not these books fail to introduce readers to the larger challenge of what thinking sustainably might entail.

Combining a series of well know authors in contemporary philosophy with established practitioners of sustainable design, this book develops a coherent theoretical framework for how theories of sustainability might engage with the growing practice of design.

Selected Contents:

Environment, Technology and Sustainability
Hocine Bougdah, University College for the Creative Arts, Canterbury, UK and Stephen Sharples, University of Sheffield, UK

Series: Technologies of Architecture

Looking particularly at sustainable building, the authors discuss available technologies for establishing a suitable microclimate within buildings, for managing the transmission of sound and for minimizing the exploitation of scarce energy and of other resources.

Using the perspective of a designer who needs a sound scientific basis for arriving at the optimum outcome, this valuably informative volume is ideal for architectural technology students, as well as first and second year architecture students.


Dictionary of Ecodesign
An Illustrated Reference
Ken Yeang, Llewelyn Davies Yeang, London, UK and Lillian Woo, Economist and Consultant, USA

Providing a unique resource for the practitioner and student, this book leaves the reader free to ‘dip’ in and out of the book allowing for ‘bite-sized’ learning at their own convenience. It is an essential reference for all architects, engineers, planners and environmentalists involved in designing and planning projects and schemes in the built environment.

2009: 246 x 189: 320pp
Hb: 978-0-415-40378-8: £95.00
eBook: 978-0-203-87840-8
For more information, visit: www.routledge.com/9780415403795

2010: 246 x 189: 312pp
Hb: 978-0-415-45899-3: £40.00
eBook: 978-0-203-86440-1
For more information, visit: www.routledge.com/9780415458993
The EcoEdge
Urgent Design Challenges in Building Sustainable Cities

Edited by Esther Charlesworth, RMIT University, Melbourne, Australia and Rob Adams, Director of Design and Urban Environment, Melbourne, Australia

Presenting diverse case studies of contemporary sustainable urban practice from Europe, Africa, India, South America, the USA and Australia, this book offers the reader a fantastic wealth of practical material from a range of internationally renowned authors.

Each practical case study has addressed issues and then offered solutions to implement sustainable cities across a range of urban scales and cultures. Urgent design challenges explored include population density, recreating infrastructure that supports carbon neutral or low carbon (emission) intensive urban activities, and retrofitting for sustainability.

Highly illustrated, thematically focused and with superb global coverage, this book presents a multi-voiced and yet highly cohesive reference for anyone interested in green issues in urban design and architecture.


February 2011: 246 x 189: 216pp
Hb: 978-0-415-57247-7: £95.00
Pb: 978-0-415-57248-4: £29.99

For more information, visit: www.routledge.com/9780415572484

Shaping Neighbourhoods
For Local Health and Global Sustainability

Hugh Barton, Marcus Grant and Richard Guise all at University of the West of England, UK

‘... I think this book amply demonstrates the many links between place and health, in a very accessible format. More importantly, it shows how we can use this knowledge practically, to develop better environments for the future.’ – Journal of Public Health

With many new case studies and a wealth of new research, this new edition outlines the principles for planning healthy and sustainable neighbourhoods and towns, putting the topical issues of climate change and obesity at the centre of its concern.

This substantially revised and important second edition responds to a changing agenda in government policy and planning practice, putting issues of climate change and obesity at the centre of its concern.

Containing many new case studies and a wealth of new research, this indispensable guide bridges the gulf between theory and practice, between planning authorities, investors and communities, and between different professional perspectives.

Whether you are a student faced with a local planning project; a planner, urban designer or developer involved in new development; a health authority concerned with promoting physical activity; or a community group wanting to improve your neighbourhood; this book is for you.


2010: 276 x 219: 344pp
Hb: 978-0-415-49548-6: £95.00
Pb: 978-0-415-49549-3: £35.00

For more information, visit: www.routledge.com/9780415495493
The authors of this book – all leading thinkers in their fields – propose a more general way of thinking, a pragmatic and pluralistic approach to sustainable living. Rather than suggesting a single solution to the problem of how to live sustainably, this collection instead discusses broader approaches to social and environmental change.

The ideas here contribute to important cross-disciplinary discourses which emphasize the need to think beyond the present and consider the consequences of our actions. Utilizing knowledge from architecture, business, economics, engineering, history, philosophy, planning, science and technological studies this book supports a constantly changing approach to the issues we currently are, and will shortly be, facing in our planet’s future.

Aimed primarily at students, this text appeals to undergraduates and postgraduates in almost any discipline, especially those interested in how to secure a future in which we can live productively but not destructively with those other humans and non-humans which inhabit the Earth.

2010: 246 x 189: 312pp
Hb: 978-0-415-77937-1: £95.00
Pb: 978-0-415-77938-8: £19.99
For more information, visit: www.routledge.com/9780415779388
CJ Lim and Ed Liu both at Bartlett School of Planning, University College London, UK

CJ Lim and Ed Liu explore how urban planning and design solutions can reintegrate agricultural practices and cultivated land within urban environments. Developed through international case studies, this is an innovative response to contemporary problems from one of the world’s leading urban design and architectural thinkers.


2010: 276 x 219: 256pp
Hb: 978-0-415-57122-7: £95.00
Pb: 978-0-415-57124-1: £29.99
eBook: 978-0-203-85032-9
For more information, visit: www.routledge.com/9780415571241

BESTSELLER
Smartcities and Eco-Warriors
2nd Edition
Sustainable Urban Design
An Environmental Approach
Edited by Adam Ritchie and Randall Thomas

Building on the first edition’s original format of design guidance and case studies, this new edition updates the ideas and techniques resulting from further research and practice by the contributors. This book emphasizes the enormous progress made towards exciting new designs that integrate good design with resource efficiency.


2008: 276 x 219: 256pp
Hb: 978-0-415-44781-2: £95.00
For more information, visit: www.routledge.com/9780415447829

Eco-Urbanity
Towards Well-Mannered Built Environments
Edited by Darko Radovic, University of Melbourne, Australia

There is need for change in our currently unsustainable cities. Carefully outlining paths towards better, sustainable ways of urban living, this book proposes a radical change in the ways we conceive and live our urban environments. Bringing together diverse cultural and disciplinary views on urban sustainability, eighteen leading academics and practitioners in sustainable architecture and urbanism explore global concerns of sustainability and urbanity.

This broad range of issues are clearly articulated and linked to concrete places and projects, merging research and cutting-edge design investigations to promote environmentally and culturally sensitive urban futures.


2009: 246 x 174: 264pp
Hb: 978-0-415-47277-7: £95.00
Pb: 978-0-415-47278-4: £27.99
For more information, visit: www.routledge.com/9780415472784

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Development and Design of Heritage Sensitive Sites
Strategies for Listed Buildings and Conservation Areas

Kenneth Williamson, Hurd Rolland Partnership, UK

Until now, architectural books on conservation matters have focused on preservation at a strategic level and restoration at a technical level. This book offers the architect, developer or planner the rules and tools needed to gauge development prospects in an objective and comprehensive manner.

Written by an experienced expert in the field it provides the reader with:

• the latest legislation relating to heritage in the UK
• insight into local planning authorities and government advisory boards
• basic strategies for approaching developments
• an understanding of the options available for developing a heritage site
• illustrative case studies to highlight strategy successes.

This book is a one-stop-shop for any professional or student working in, or learning about, development in heritage environments.

Selected Contents:
Part 1: Controlling Principles

Part 2: Assessment

Part 4: Case Studies
Caltongate, Edinburgh. Notre Dame Campus, Bearsden near Glasgow. House of Fraser Store, Buchanan Street, Glasgow

NEW
City Design
Modernist, Traditional, Green and Systems Perspectives

Jonathan Barnett, University of Pennsylvania, USA

The world is urbanizing faster than current city design practices can sustain, climate change has introduced a new dynamism into what once appeared to be a stable environment, and – with effective city design more important than ever – there are controversies and uncertainties about the best way to manage unprecedented urban growth and change.

City Design describes the history and current practice of the four most widely accepted approaches to city design: the Modernist city of towers and highways that, beginning in the 1920s, has come to dominate urban development worldwide but is criticized as mechanical and soul-less; the Traditional organization of cities as streets and public places, scorned by the modernists, but being revived today for its human scale; Green city design, whose history can be traced back thousands of years in Asia, but is becoming increasingly important everywhere as sustainability and the preservation of the planet are recognized as basic issues, and finally Systems city design, which includes infrastructure and development regulation but also includes computer aided techniques which give designers new tools for managing the complexity of cities.

Jonathan Barnett is a well-known, widely-experienced city design practitioner who also teaches and writes about city design. He writes authoritatively but accessibly about complicated issues of theory and practice, and his approach is objective and inclusive. This is a comprehensive text on city design ideal for planners, landscape architects, urban designers and those who want to understand how to improve cities.


January 2011: 246 x 189: 248pp
Hb: 978-0-415-77540-3: £95.00
Pb: 978-0-415-77541-0: £31.99
For more information, visit: www.routledge.com/9780415775410

2010: 246 x 174: 216pp
Hb: 978-0-415-48643-9: £95.00
eBook: 978-0-203-84843-2
For more information, visit: www.routledge.com/9780415486446
Urban Design Futures
Edited by Malcolm Moor and Jon Rowland
This book explores new concepts and points the way towards a series of urban design paradigms for the twenty-first century.

2006: 238 x 225mm: 216pp
Hb: 978-0-415-31877-8: £110.00
Pb: 978-0-415-31878-5: £40.00
eBook: 978-0-203-60172-3

For more information, visit:
www.routledge.com/9780415318785

Sustainable Olympic Design and Urban Development
Adrian Pitts, Sheffield Hallam University, UK and Hanwen Liao, University of Greenwich, UK
This book explains how modern Olympic games can successfully develop a more sustainable design approach by learning from the lessons of the past and by taking account of the latest developments.

2009: 246 x 189: 248pp
Hb: 978-0-415-46761-2: £95.00
Pb: 978-0-415-46762-9: £40.00

For more information, visit:
www.routledge.com/9780415467629

Strategies for Sustainable Architecture
Paola Sassi
Provides the reader with a deeper understanding of the design issues involved in delivering sustainable buildings and describes in detail the process of integrating principles into practice. Featuring over 400 illustrations, this highly visual guide will be an invaluable reference.

2006: 276 x 219: 312pp
Hb: 978-0-415-34142-4: £50.00
Pb: 978-0-415-34143-1: £40.00
eBook: 978-0-203-48010-6

For more information, visit:
www.routledge.com/9780415341424

Britain’s New Towns
Garden Cities to Sustainable Communities
Anthony Alexander
The New Towns Programme of 1946 to 1970 represents one of the most substantial periods of urban development in Britain. This book covers the story of how these towns came to be built, how they aged, and the challenges and opportunities they now face as they begin phases of renewal. The New Towns provide lessons for social, economic and environmental sustainability which are of great relevance for the regeneration of twentieth century urbanism and the creation of new urban developments today.

2009: 276 x 219: 208pp
Hb: 978-0-415-47512-9: £95.00
Pb: 978-0-415-47513-6: £29.99
eBook: 978-0-203-87565-0

For more information, visit:
www.routledge.com/9780415475136

Regenerating London
Governance, Sustainability and Community in a Global City
Edited by Rob Imrie, Loretta Lees and Mike Raco
Regenerating London explores latest thinking on urban regeneration in one of the fastest changing world cities. Engaging with social, economic, and political structures of cities, it highlights paradoxes and contradictions in urban policy and offers an evaluation of the contemporary forms of urban redevelopment.

2008: 246 x 174: 336pp
Hb: 978-0-415-43367-9: £95.00
eBook: 978-0-203-88671-7

For more information, visit:
www.routledge.com/9780415433679

Sustainable Architectures
Critical Explorations of Green Building Practice in Europe and North America
Edited by Simon Guy and Steven A. Moore

2004: 246 x 174: 288pp
Hb: 978-0-415-70044-3: £95.00
Pb: 978-0-415-70045-0: £35.00
eBook: 978-0-203-41280-0

For more information, visit:
www.routledge.com/9780415700450

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World Cities and Urban Form
Fragmented, Polycentric, Sustainable?
Edited by Mike Jenks, Daniel Kozak and Pattaranan Takkanon
This book presents new research and theory at the regional scale showing the forms metropolitan regions might take to achieve sustainability. At the city scale the book presents case studies based on the latest research and practice from Europe, Asia and North America, showing how both planning and flagship design can propel cities into world class status, and also improve sustainability. The contributors explore the tension between polycentric and potentially sustainable development, and urban fragmentation in a physical context, but also in a wider cultural, social and economic context.

Selected Contents:
Part 1: Theoretical Approaches in a Global Context
Part 2: Polycentric Regions and Cities: perspectives from Europe, Asia and North America
Part 3: Aspects of Urban Fragmentation

2008: 246 x 174: 384pp
Hb: 978-0-415-45184-0: £95.00
For more information, visit: www.routledge.com/9780415451864

Social-Environmental Planning
The Design Interface Between Everyforest and Everycity
Chris Maser, Consultant, Oregon, USA
Based on the author's forty years of experience, this book discusses the sustainability of the planet and its population when dealing with climate change. It focuses on community-based solutions and emphasizes how the heavy lifting of sustainability will always be done inside existing cities and communities. The author suggests that before changes can be made, society must adapt to the circumstances of global climate change in order to determine what can be done to stabilize the global climate as effectively and quickly as possible. solutions that work.

2009: 6-1/8 x 9-1/4: 328pp
Hb: 978-0-415-58543-9: £49.99
For more information, visit: www.routledge.com/9780415585439

NEW
Vernacular Architecture of West Africa
A World in Dwelling
Jean-Paul Bourdier and Trinh T. Minh-ha both at University of California at Berkeley, USA
The dwellings of hundreds of African ethnic groups offer a variety of conceptions and building practices that contradict the widespread image of the primitive hut commonly attributed to rural Africa. Each house or group of houses is designed not only to shelter the members of a family, but also to enable intimate communication with ancestors and divinities and to harmonize with the forces of nature. Such an architecture thrives in a community context where it is simply not acceptable to plunder resources from the earth, and resources are used only in accordance with their availability, in quantity, and at times of year that minimize environmental impact.

This cultural dimension and its realization through different architectural practices are illustrated in this work with examples taken from dwellings across numerous ethnic groups in sub-Saharan West Africa.

Drawings, plans, axonometric projections, and photographs show the beauty and complexity of this architecture that is a spiritual praxis-as much place of life as work of art.

March 2011: 245 x 230: 192pp
Hb: 978-0-415-58543-9: £49.99
For more information, visit: www.routledge.com/9780415585439

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www.facebook.com/builtenvironmentbooks
**Atlas of Vernacular Architecture of the World**

*Marcel Vellinga, Paul Oliver and Alexander Bridge*

The first world atlas ever compiled on vernacular architecture, this comprehensive work illustrates the variety and ingenuity of the world’s vernacular building traditions from a multi-disciplinary, cross-cultural and comparative approach, using over sixty world and regional maps.

2008: 276 x 219: 160pp
Hb: 978-0-415-41151-6: £50.00

For more information, visit:
www.routledge.com/9780415411516

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**NEW**

**To Design Landscape**

*Art, Nature and Utility*

*Catherine Dee*, University of Sheffield, UK

To Design Landscape is about aesthetic practice in contemporary landscape design. It offers both highly practical lessons and a cultural philosophy of landscape design at a time of ecological necessity. In it, Catherine Dee combines theory with a striking visual format and image-based ‘lessons’, drawing on her experiences as an inspirational landscape architecture lecturer and her talents as an artist. A must for all landscape architecture students.

**Selected Contents: To Design Landscape**
1. The Designed Landscape  
2. Craft  
3. Form and Formlessness  
5. Sculpting Time  
6. All Possible Forms  
7. Nature, Culture, Both  
8. Soft, Rock-hard, and Evergreen Time  
9. Elemental Register  
10. Hand and Machine  
11. Modesty and Ingenuity as Art  
12. Economy of Means  
13. Utilitarian Form  
14. Context is All  
15. Raking Strategies  
16. Abstraction  
17. Hardly Intervention  
19. Keep  
20. Absence  
21. Lucky  
22. Interplay  
23. Survey  
24. Indoor Craft  
25. Outdoor Craft  
26. Green  
27. Terrain  
28. Wet  
29. Furnish  
30. Dirty, Rotten  
31. Wind  
32. Sky

October 2011: 246 x 189: 320pp
Hb: 978-0-415-58504-0: £95.00
Pb: 978-0-415-58505-7: £29.99

For more information, visit:
www.routledge.com/9780415585057

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**Designing the Reclaimed Landscape**

*Alan Berger*

The first practical yet in-depth exploration of how to reclaim the post-industrial landscape, this volume includes excellent case studies by practitioners and policy makers from around the US, giving first rate practical examples.

2007: 246 x 174: 200pp
Hb: 978-0-415-77303-4: £40.00
eBook: 978-0-203-93573-6

For more information, visit:
www.routledge.com/9780415773034

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**Designing Sustainable Forest Landscapes**

*Simon Bell and Dean Apostol*

2007: 246 x 189: 368pp
Hb: 978-0-419-25680-9: £55.00
eBook: 978-0-203-93627-6

For more information, visit:
www.routledge.com/9780419256809
**Earth Building**
Methods and Materials, Repair and Conservation
Laurence Keefe
A thorough examination of the use of earth as an eco-friendly building material, with full details on the properties of earth as a building material, appropriate construction techniques, and practical troubleshooting advice.

2005: 234 x 156: 208pp
ebook: 978-0-203-34233-6
For more information, visit: www.routledge.com/9780415323222

**Climate and Architecture**
Edited by Torben Dahl
Drawing on contemporary and historic examples from around the world, this book explores the ways in which climate shapes architecture. Beautifully illustrated and deeply insightful, this critical overview presents new perspectives on the power of climate to shape human habitation.

2009: 260 x 240: 168pp
Hb: 978-0-415-56308-6: £95.00
For more information, visit: www.routledge.com/9780415563093

**The Green Braid**
Towards an Architecture of Ecology, Economy and Equity
Edited by Kim Tanzer and Rafael Longoria

2007: 246 x 189: 400pp
Hb: 978-0-415-41499-9: £95.00
ebook: 978-0-203-96208-4
For more information, visit: www.routledge.com/9780415415002

**Visualization in Landscape and Environmental Planning Technology and Applications**
Edited by Ian Bishop and Eckart Lange

2005: 246 x 189: 320pp
Hb: 978-0-415-30510-5: £75.00
For more information, visit: www.routledge.com/9780415305105

**Introduction To Environmental Impact Assessment**
John Glasson, Riki Therivel and Andrew Chadwick
Series: Natural and Built Environment
An introduction to environmental impact assessment, this text is designed to be used by students of planning, environmental studies and geography.

2005: 234 x 156: 448pp
Hb: 978-0-415-33836-3: £95.00
Pb: 978-0-415-33837-0: £34.99
ebook: 978-0-203-02306-8
For more information, visit: www.routledge.com/9780415338370
Environmental impact assessment (EIA) is now firmly established as an important and often obligatory part of proposing or launching any development project. Delivering a successful EIA needs not only an understanding of the theory but also a detailed knowledge of the methods for carrying out the processes required.

Peter Morris and Riki Therivel bring together the latest advice on best practice from experienced practitioners to ensure an EIA is carried out correctly.

Invaluable to undergraduate and MSc students of EIA in planning, ecology, geography and environment courses, this third edition of Methods of Environmental Impact Assessment is also of great use to planners, EIA practitioners and professionals seeking to update their skills.

Selected Contents: Part 1: Methods for Environmental Components
1. Introduction
2. Socio-Economic Impacts 1: Overview and Economic Impacts
3. Socio-Economic Impacts 2: Social Impacts
4. Noise
5. Transport
6. Landscape and Visual
7. Archaeological and Other Material and Cultural Assets
8. Air Quality and Climate
9. Soils, Geology and Geomorphology
10. Water
11. Ecology
12. Coastal Ecology and Geomorphology

Part 2: Shared and Integrative Methods
13. Environmental Risk Assessment and Risk Management
14. Geographical Information Systems
15. Quality of Life Capital

Appendices

2009: 234 x 156: 576pp
Hb: 978-0-415-44174-2: £95.00
eBook: 978-0-203-89290-9
For more information, visit: www.routledge.com/9780415441759
NEW
8th Edition
Spon’s Building Regulations Explained
2011 Revision

London District Surveyors Association and John Stephenson

This fully revised, essential reference takes into account all important aspects of building control including new legislation up to 2010, covering major revisions to Parts A, B, C, F, J, L1A, L1B, L2A, L2B and P and revisions to Part E. Each chapter explains in clear terms the appropriate regulation and any other relevant legislation, before explaining the approved document. Publication lists and relevant sources of information are also included, together with annexes devoted to legislation relevant to the construction industry, determinations made by the Secretary of State, and sample check lists.

Highly illustrated and taking a practical approach to the subject, this book is ideal for the professional, with special appeal to architects, planners, surveyors, builders, designers, building control professionals including new non-NHBC approved inspectors, and students.

August 2011: 297 x 210: 672pp
Hb: 978-0-415-43067-8: £80.00
For more information, visit: www.routledge.com/9780415430678

NEW
New Perspectives on Construction in Developing Countries

Edited by George Ofori, National University of Singapore

Developing countries face the challenge of maintaining economic growth and socio-economic development, at the core of which sits the construction industry. Considerable research on construction in developing countries took place in the 1970’s and 1980s, but little since, a gap which this book fills.

Including contributions from prominent academics and practitioners in Australia, China, Portugal, Singapore, South Africa, Portugal, the Netherlands, Switzerland, and the UK, this is a truly international analysis of a subject of global interest. The most insightful and relevant of recent research on topics such as Millennium Development Goals, the informal construction sector, human resource development, technology, finance and social change, are all addressed in the context of the construction industry in the developing world. Also considered are other key aspects of construction industry development such as institution building, nurturing of contractors and consultants and championing of industry development programmes.

While the challenge has grown and the needs have become even more pressing, the research to date has rarely presented effective solutions. Focussing on those aspects of the construction industry most crucial to development, this is a much needed up-to-date study that sheds new light on a variety of concepts and issues.

This is essential reading for researchers, professionals and students interested in the construction industry in developing countries. Readers of this book will be interested in its companion volume; Contemporary Issues of Construction in Developing Countries.

July 2011: 234 x 156: 304pp
Hb: 978-0-415-58572-9: £75.00
eBook: 978-0-203-84734-3
For more information, visit: www.routledge.com/9780415585729

Spon’s Architects’ and Builders’ Price Book 2011

Davis Langdon, Construction Consultants, UK

The most accurate, detailed and professionally relevant construction price information currently available for the UK.

This 136th edition comes with revised overheads and profits and Preliminaries. New Measured Works items include bio diverse roofs; fire resisting glass blocks; glazing insulating panels and blister tactile paving; Approximate Estimating items include lift pits; Corium brick tiles and polished plaster; and with extra elemental building cost models. Also included is a free ebook, and estimating software to run to the end of 2011.

2010: 246 x 174: 1168pp
Hb: 978-0-415-58845-4: £145.00
eBook: 978-0-203-84612-4
For more information, visit: www.routledge.com/9780415588454
Whole Life Costing
A New Approach

Peter Caplehorn, Scott Brownrigg, UK

Whole life costing is now central to the procurement and construction of major projects – especially with PPP – and in particular PFI, where details of the project’s life need to be assessed and tied into funding and operation plans, and where a company takes on the running and maintaining of the building as well as its construction. With the need for sustainability and reduced environmental impact, whole life costing considers materials performance through to the end of their life. This book sets out the practical issues involved in the selection of materials and their performance.

Selected Contents: Part 1: Introduction
1. Whole Life Costing: A Practical Approach
2. Why is it Important?
3. What Factors Affect It?
4. Current Methods Thinking and Systems

Part 2: Relevance to Today
5. The Sustainability Question and the Context of Whole Life Costing
6. What Needs to be Taken Account? 7. How the Following Explanations Data Have Been Approached
8. Who Needs this Information?
9. How to Use it Effectively

Part 3: The Building Process
10. Contracts and Their Requirements
11. PFI and Procurement
12. Clients Contractors and Consultants
13. Building Elements
14. Fabric
15. Structure
16. Materials
17. Finishes
18. Occupation

Part 4: Building Elements
14. Fabric
15. Structure
16. Materials
17. Finishes
18. Occupation

Part 5: The Future

August 2011: 246 x 174: 356pp
Hb: 978-0-415-43422-5: £95.00
Pb: 978-0-415-43423-2: £34.99
eBook: 978-0-203-88896-4

For more information, visit: www.routledge.com/9780415434232

Life Cycle Assessment in the Built Environment

Robert Crawford, University of Melbourne, Australia

After outlining the framework for life cycle assessment, this book uses a range of case studies to demonstrate the innovative input-output-based hybrid approach for compiling a life cycle inventory. These case studies cover a range of elements that are part of the built environment, including a residential building, a commercial office building and a wind turbine, as well as individual building components such as a residential-scale photovoltaic system.

Comprehensively introducing and demonstrating the uses and benefits of life cycle assessment for built environment projects, this book will show you how to assess the environmental performance of your clients’ projects, to compare design options across their entire life and to identify opportunities for improving environmental performance.

Selected Contents: 1. Global Warming and Climate Change
2. Minimizing the Environmental Impact of the Built Environment
3. What is Life Cycle Assessment?
4. Life Cycle Thinking in the Built Environment
5. Building Case Studies
6. Reducing Environmental Impacts of the Built Environment

Appendices

March 2011: 234 x 156: 272pp
Hb: 978-0-415-55795-5: £80.00
eBook: 978-0-203-86817-1

For more information, visit: www.routledge.com/9780415557955

Predictive and Optimised Life Cycle Management
Buildings and Infrastructure

Edited by Asko Sarja

2006: 246 x 174: 688pp
Hb: 978-0-415-35393-9: £127.50
eBook: 978-0-203-34898-7

For more information, visit: www.routledge.com/9780415353939

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Green Buildings and the Law
Edited by Julie Adshead, Salford Law School, UK

In countries such as the UK, the energy used in constructing, occupying and operating buildings represents approximately fifty percent of greenhouse gas emissions. Pressure to improve the environmental performance of buildings during both construction and occupancy, particularly to reduce carbon emissions from buildings, has become intense.

Understandably, legislation and regulation are driving green development and compliance. And this is happening in a wide variety of ways. This review of the law in key jurisdictions for the research community, lawyers, the construction industry and government examines some of the mechanisms in place – from the more traditional building regulation controls to green leases and the law relating to buildings and their natural environment.

Members of the CIB TG69 research group on ‘Green Buildings and the Law’ review aspects of the law relating to green development in a range of jurisdictions.


April 2011: 234 x 156: 280pp
Hb: 978-0-415-55926-3: £70.00
eBook: 978-0-203-86680-1
For more information, visit: www.routledge.com/9780415559263

Responsible Corporate Strategy in Construction and Engineering
‘Doing the Right Thing?’

Martin Loosemore, University of New South Wales, Australia and Florence Phua, University of Reading, UK

The role that communities have to play in the evolution and implementation of an effective strategy is often overlooked, despite the fact that it is becoming increasingly important and complex. This book addresses how consulting and contracting firms in the construction and engineering industries integrate Corporate Social Responsibility (CSR) into business strategy and how this translates into better business performance. In the context of the current global drive towards sustainability, it seeks to untangle the rhetoric and reality of CSR, providing a guide to effective and meaningful engagement with the community in the boardroom.

Ideas, concepts, theories and debates in the previously separate areas of corporate performance; corporate social responsibility; corporate strategy and; corporate governance are integrated for the first time in this book, promoting a more liberal and wider debate about CSR. The result is an important and timely examination of a new challenge which faces every firm in the engineering and construction industry, from the very largest transnational corporations, to consultants and to the many thousands of small and medium sized enterprises that employ the vast majority of people in the industry.

The extensive use of real-life examples ensures that the content is of value to managers who have to deal with the reality of the industry on a day-to-day basis. The case studies of some of the world’s leading firms provide rich qualitative data to support the arguments and are an excellent source of learning and teaching material to the subject of CSR for students.


2010: 234 x 156: 192pp
Hb: 978-0-415-45909-9: £75.00
Pb: 978-0-415-45910-5: £35.00
For more information, visit: www.routledge.com/9780415459105
Corporate Social Responsibility in the Construction Industry

Edited by Michael Murray, University of Strathclyde, UK and Andrew Dainty, Loughborough University, UK

Examining the impact of the construction industry on society, this book incorporates expert contributions on government intervention, human and employee rights, community involvement, corruption in the procurement process, and environmental damage.

2008: 234 x 156: 432pp
Hb: 978-0-415-36207-8: £95.00
Pb: 978-0-415-36208-5: £32.99
eBook: 978-0-203-01233-8

For more information, visit: www.routledge.com/9780415362085

NEW

Structural Design in Building Conservation

Dimitris Theodossopoulos, University of Edinburgh, UK

Structural Design in Building Conservation deals with the design of structural interventions in historic buildings and shows how the associated technical choices affect the planning and architectural outcomes in a conservation project. It brings together theory with current conservation technology, discussing its possibilities in architectural expression and is particularly directed to students of architectural conservation technology. It combines a technical manual (with details), a text for practising engineers, and guidance through case studies, with good examples of repairs, strengthening, additions, and interventions, and with advice on the specialist literature.

Significant case studies are presented of historic mills, stone block buildings, neoclassical houses, historic reinforced concrete structures, and vaulting types.

August 2011: 234 x 156: 272pp
Hb: 978-0-415-47945-5: £95.00
Pb: 978-0-415-47946-2: £34.99
eBook: 978-0-203-88725-7

For more information, visit: www.routledge.com/9780415479462

NEW

Traditional Construction for a Sustainable Future

Carole Ryan, formerly at Bournemouth University, UK

Over 250 original photos, and over fifty bespoke diagrams illustrate the features, techniques, and characteristics of traditional construction that could make such a valuable contribution to the industry today. The inclusion of a close study of how these methods relate to British building regulations makes this book a practical guide for construction professionals, as well as an authoritative resource for students and policy-makers.


January 2011: 246 x 174: 384pp
Hb: 978-0-415-46756-8: £100.00
eBook: 978-0-203-89550-4

For more information, visit: www.routledge.com/9780415467575

Sustainability of Construction Materials

Edited by J. Khatib, University of Wolverhampton, UK

2009: 6 x 9: 384pp
Hb: 978-1-4398-0130-7: £130.00

For more information, visit: www.routledge.com/9781439801307
Prospects for an Ethics of Architecture

William M. Taylor and Michael P. Levine both at University of Western Australia

Bringing together the reflections of an architectural theorist and a philosopher, this book encourages philosophers and architects, scholars and designers alike, to reconsider what they do as well as what they can do in the face of challenging times. It does so by exploring the notion that architecture and design can (and possibly should), in their own right, make for a distinctive form of ethical investigation.

The book is less concerned with absolutist understandings of the two components of ethics, a theory of ‘the good’ and a theory of ‘the right’, than with remaining open to multiple relations between ideas about the built environment, design practices and the plurality of kinds of human subjects (inhabitants, individuals and communities) accommodated by buildings and urban spaces.

The built environment contributes to the inculcation of all sorts of values (good and bad). Thus, this book aims to change the way people commonly think about ethics, not only in relation to the built environment, but to themselves, their ways of thinking and modes of behaviour.


February 2011: 234 x 156: 232pp
Hb: 978-0-415-58971-0: £95.00
Pb: 978-0-415-58972-7: £29.99

For more information, visit: www.routledge.com/9780415589727

Sustainability and Design Ethics

Tom Russ, College of Southern Maryland, USA

Major revisions of traditional professional codes of ethics are required to reflect emerging environmental concerns and the corresponding standards of care and professional practice. Drawing on business ethics principles and his own experience as a design professional, the author presents a unique exposition of the underlying ethical reasoning involved in the challenges confronted by contemporary design professionals. It considers the implications of sustainability from traditional ethical points of view and provides a balanced analysis of how a sustainable standard of care might be composed.

2010: 6 x 9: 176pp
Pb: 978-1-4398-0854-2: £38.99

For more information, visit: www.routledge.com/9781439808542

Ethics for the Built Environment

Peter Fewings

Much closer relationships are being formed in the development of the built environment and cultural changes in procurement methods are taking place. A need has grown to re-examine the ethical frameworks required to sustain collaborative trust and transparency. Young professionals are moving around between companies on a frequent basis and take their personal values with them. What can companies do to support their employees? Selected Contents: Part 1: Principles and Issues Part 2: Industry Survey Case Studies

2008: 234 x 156: 400pp
Hb: 978-0-415-42982-5: £95.00
eBook: 978-0-203-92690-1

For more information, visit: www.routledge.com/9780415429832
Hazards and the Built Environment
Attaining Built-in Resilience

Edited by Lee Bosher

Presenting a range of multi-hazard adaptation issues, this book illustrates that non-structural as well as structural adaptations need to be considered in order to reduce the threat, and impact, of disasters in the built environment.

Selected Contents:
1. Mainstreaming Disaster Risk Management
2. Construction in Developing Nations
3. The Case of Central Vietnam
4. Structural Adaptation in India
5. Developments in Seismic Design and Retrofit of Structures
6. Flood Resilience in Residential Properties in England and Wales
7. Public Attitudes to ‘Community Based’ Small Scale Flood Risk Reduction Measures in England
8. Facing the Future by Designing in Resilience
9. Community-Based Construction for Disaster Risk Reduction
10. Informal Settlements and Natural Hazard Vulnerability in Rapid Growth Cities
11. Corruption, Construction and Catastrophe
12. Building Resilience by Focusing on Legal and Contractual Frameworks for Disaster Reconstruction
13. The Implications of the Civil Contingencies Act (CCA) 2004 for Engineers in the UK
14. Security Planning in the Resilient City
15. Adapting Settlements Before Disasters Strike

Air Pollution
Measurement, Modelling and Mitigation

Jeremy Colls, University of Nottingham, UK and Abhishek Tiwary, University of Manchester, UK

This one stop, comprehensive upper-level undergraduate and graduate textbook covers the three essential components of air pollution science. It now includes the role of air pollutants in climate change, the depletion of stratospheric ozone, and air pollution mitigation by vegetation, and coverage of developing countries, but retains a quantitative perspective.

Selected Contents:
1. Air Pollutants: Sources and Control of Gases
2. Air Pollutants: Particulates
3. Mobile Sources
4. Measurement of Gases and Particles
5. Concentrations and Deposition
6. Meteorology and Modelling
7. Analysis of an Air Quality Data Set
8. Indoor Air Quality
9. Mitigation of Air Pollution: The Role of Vegetation
10. Effects on Plants, Visual Range and Materials
11. Responses of Humans and Other Animals
12. Greenhouse Gases and Climate Change
13. Ozone Depletion and Ultraviolet Radiation
14. Standards and Legislation

Environmental Noise Barriers
A Guide To Their Acoustic and Visual Design

Benz Kotzen, Chartered Landscape Architect, UK and Colin English, Chartered Acoustical Engineer, UK

‘A highly useful source of information ... for architects, planners, developers, engineers and acousticians.’
– Acoustics Bulletin

Environmental Noise Barriers is a unique one-stop reference for practitioners, whether acoustical engineers, landscape architects or manufacturers, and for highways departments in local and central authorities.

Selected Contents:
1. Introduction
3. Acoustic Performance of Barriers
4. Barrier Morphology and Design
5. Types of Barrier and Barrier Materials
6. Planting and Bio-barriers
7. Noise Amelioration and Roads, Tunnels, Airports
8. Environmental Noise Barriers in Other Locations – Industrial Uses

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Production of Portland cement is responsible for about seven percent of the world’s greenhouse gas emissions. The pressure to make the production of concrete more sustainable, or ‘greener’, is considerable and increasing. This requires a wholesale shift in processes, materials and methods in the concrete industry. Pure Portland cement will need to be replaced by more complex binary, tertiary or even quaternary binders, including other types of cementitious materials. We can expect an increasing use of high performance concrete, primarily because of its high sustainability and durability. Much more attention will have to be paid to the proper curing of the concrete if we want to improve its life expectancy.

Presenting the latest advances in the science of concrete this book focuses particularly on sustainability, durability, and economy. It explores the potential for increased sustainability in concrete from the initial mixing right through to its behaviour in complex structures exposed to different types of loads and aggressive environments.

February 2011: 234 x 156: 328pp
Hb: 978-0-415-57196-8: £100.00
eBook: 978-0-203-85663-5
For more information, visit: www.routledge.com/9780415571968

The role and influence of building services engineers is undergoing rapid change and is pivotal to achieving low-carbon buildings. However, textbooks in the field have remained fairly traditional with a detailed focus on the technicalities of HVAC systems, often with little wider context. This book addresses that need by embracing a contemporary understanding of sustainability imperatives, together with a practical approach to the key issues impacting upon energy efficiency, in a concise manner.

The essential conceptual design issues for planning the principal building services systems that influence energy efficiency are examined in detail. These systems are heating, ventilation and air-conditioning (HVAC) and electric power distribution. In addition, the following issues are addressed in turn:

- background issues for sustainability and the design process
- practical measures for energy-efficient design
- how to undertake load assessments
- system comparison and selection
- the key aspects of design integration with other disciplines
- post-occupancy evaluation of completed building services.

In order to deliver sustainable buildings, a new perspective is needed amongst building and services engineering practitioners, from the outset of the conceptual design stage and throughout the whole design process. In this book, students and practitioners alike will find the ideal introduction and guide to this new approach.

September 2011: 234 x 156: 384pp
Hb: 978-0-415-59636-7: £100.00
Pb: 978-0-415-59637-4: £29.99
eBook: 978-0-203-84073-3
For more information, visit: www.routledge.com/9780415596374

You can now follow T&F Built Environment on www.twitter.com/tandfbooks
Building Performance Simulation for Design and Operation

Edited by Jan L. M. Hensen, Technical University of Eindhoven, the Netherlands and Roberto Lamberts, Federal University of Santa Catarina, Brazil

This book provides a unique and comprehensive overview of building performance simulation. It is primarily intended for advanced students in building services engineering, and in architectural, environmental or mechanical engineering, and will be useful for building and systems designers and operators.

Selected Contents:
1. The Role of Simulation in Performance Based Building
2. Weather Data for Building Performance Simulation
3. People in Building Performance Simulation
4. Thermal Load and Energy Performance Prediction
5. Ventilation Performance Prediction
6. Indoor Thermal Quality Performance Prediction
7. Room Acoustics Performance Prediction
8. Daylight Performance Predictions
9. Moisture Phenomena in Whole Building Performance Prediction
10. HVAC Systems Performance Prediction
11. Micro-cogeneration System Performance Prediction
12. Building Simulation for Practical Operational Optimization
13. Building Simulation in Building Automation Systems
15. Building Simulation for Policy Support
16. A View on Future Building System Modelling and Simulation

January 2011: 246 x 174: 536pp
Hb: 978-0-415-47414-6: £65.00

For more information, visit: www.routledge.com/9780415474146

A Guide to Energy Management in Buildings

Douglas Harris, Heriot-Watt University, UK

Inefficient energy use in buildings is both increasingly expensive and unsustainable. Indeed, the reduction of the energy consumption of existing buildings is as least as important as the design of new low-energy buildings.

This comprehensive guide clearly and concisely covers the various issues from a theoretical standpoint and provides practical, worked examples where appropriate, along with examples of how the calculations are carried out. It provides a template for instigating the energy management process within an organization, as well as guidance on management issues such as employee motivation, and gives practical details on how to carry it through. This book should appeal to building managers and facilities managers and also to students of energy management modules in FE and HE courses.

November 2011: 234 x 156: 224pp
Hb: 978-0-415-56648-3: £95.00
Pb: 978-0-415-56649-0: £29.99
Ebook: 978-0-203-86147-9

For more information, visit: www.routledge.com/9780415566490

Tropical Urban Heat Islands: Climate, Buildings and Greenery

Nyuk Hien Wong and Yu Chen

Series: Spon Research

This book explores the complex relationships between climate, buildings and plants, especially in urban heat islands to form a reference for researchers and professionals.

Selected Contents: Part 1: Introduction
1. Tropical Climate
2. Tropical Buildings
3. Tropical Plants
4. Climate and Buildings
5. Buildings and Plants
6. Plants and Climate
7. Climate-Building-Plants System

Part 2: Case Studies
8. Measurements in Singapore

2008: 234 x 156: 272pp
Hb: 978-0-415-41104-2: £95.00

For more information, visit: www.routledge.com/9780415411042
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