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# The Sustainable Built Environment

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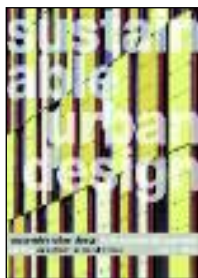


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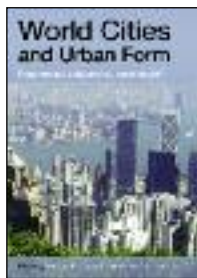


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# Highlights



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**NEW**

## Sustainable Urban Development Volume 3

The Toolkit for Assessment

Edited by **Ron Vreeker**, Free University, Amsterdam, the Netherlands, **Mark Deakin**, Napier University, Edinburgh, UK and **Steven Curwell**, University of Salford, UK

The third volume of the *Sustainable Urban Development* series outlines the BEQUEST toolkit that helps link protocol with the assessment methods currently available for evaluating the sustainability of urban development. It details the decision support mechanisms, developed for users of the system, to guide them in selecting the appropriate assessment methods for a variety of evaluations.

This book provides case studies drawn from locations across Europe, and also provides best practice examples demonstrating those protocols that planners, property developers, and design and construction professionals have followed, and how they have selected the assessment methods they need to best evaluate the sustainability of cities, districts, neighbourhoods and buildings.

October 2008: 256pp

Hb: 978-0-415-32218-8: **\$150.00**

Pb: 978-0-415-32219-5: **\$62.95**

## Sustainable Urban Development Volume 1

The Framework and Protocols for Environmental Assessment

Edited by **Steven Curwell**, **Mark Deakin** and **Martin Symes**

2005: 256pp

Hb: 978-0-415-32214-0: **\$145.00**

Pb: 978-0-415-32215-7: **\$54.95**

eBook: 978-0-203-29991-3

**NEW**

## Sustainable Urban Development Volume 4

Changing Professional Practice

Edited by **Ian Cooper**, Eclipse Research Consultants, Cambridge, UK and **Martin Symes**, University of the West of England, Bristol, UK

This new volume explores how the professions responsible for enhancing the built environment's sustainability seek to deliver this newly-found agenda, offering multi-perspective case studies and discussion to argue for a rethinking of the role of the urban development professional.

Showing how sustainability is rapidly becoming the norm for practitioners, this book considers new types of professional knowledge, relationships between planning systems and property development, links between public and private sector organizations, ideas about long term responsibilities, and new working practices for engaging with the public.

August 2008: 288pp

Hb: 978-0-415-43821-6: **\$150.00**

Pb: 978-0-415-43822-3: **\$62.95**

## Sustainable Urban Development Volume 2

The Environmental Assessment Methods

Edited by **Mark Deakin**, Napier University, Edinburgh, UK, **Gordon Mitchell**, University of Leeds, UK, **Peter Nijkamp** and **Ron Vreeker**, both at Free University, Amsterdam, the Netherlands

2007: 544pp

Hb: 978-0-415-32216-4: **\$140.00**

Pb: 978-0-415-32217-1: **\$58.95**

eBook: 978-0-203-41703-4



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**NEW**

## Environment, Technology and Sustainability

**Stephen Sharples**, University College for the Creative Arts at Canterbury, Kent, UK, **Hocine Bougdah**, University of Sheffield, UK and **Joan Zunde**

*Series: Technologies of Architecture*

Looking particularly at sustainable building, a holistic view is taken, so that the influence of any one set of choices on other areas – such as the trade-off of daylighting against thermal insulation, or the balance needed between heating and ventilation – are not overlooked. 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.

**Selected Contents:** Part 1: Buildings and Climate Design Part 2: Buildings and Passive Energy Design Part 3: Buildings and Active Energy Design Part 4: Buildings and Lighting Design Part 5: Buildings and Acoustic Design Part 6: Buildings and Sustainable Design Part 7: Case Studies

November 2008: 256pp

Hb: 978-0-415-40378-8: **\$148.75**

Pb: 978-0-415-40379-5: **\$39.95**

**NEW**

## The Environments of Architecture

Environmental Design in Context

**Randall Thomas**, Consultant, Max Fordham LLP, London, UK and **Trevor Garnham**, Kingston University, Kingston Upon Thames, UK

This book sets out a range of considerations necessary to produce appropriate internal environments in the context of a wider discussion on the effect of building decisions on the broader environment.

The authors, from architecture and engineering, both academia and practice, provide a rounded and well-balanced introduction to this important topic. Starting from a belief that the built environment can contribute more positively to the planet and the pleasure of places, as well as answering the practical demands of comfort, they cover site planning, form, materials, construction and operation, as well as looking at design on a city level.

Presenting a thoughtful and stimulating approach to the built environment, this book forms an excellent guide for practitioners, students and academics concerned with our built environment.

**Selected Contents:** 1. Introduction 2. Site and Setting  
3. Building Design 1: Smaller Buildings and the Creation of Environments  
4. Building Design 2: The Environments of Larger Buildings 5. Heating, Cooling and Power  
6. Ventilation 7. Light and Shade 8. The City 9. Conclusion

2007: 256pp

Hb: 978-0-415-36088-3: **\$170.00**

Pb: 978-0-415-36089-0: **\$39.95**

eBook: 978-0-203-79940-6



Shortlisted for the Sir Robert McAlpine RIBA  
International Book Awards for Construction 2008

## The ZEDbook

Solutions for a Shrinking World

**Bill Dunster**, Bill Dunster Architects, UK,  
**Craig Simmons**, Best Foot Forward, UK and  
**Bobby Gilbert**, Bobby Gilbert Associates, UK

Based on the experience gained from their involvement in the pioneering Beddington Zero Emission Development (or BedZED) in London, and subsequent innovative schemes, *The ZEDbook* authors present a bold, coherent and refreshing vision of a low carbon future.

In three comprehensive sections, *The ZEDbook* leads the reader from basic ZEDliving principles, through building physics and architectural design details, to a carefully selected array of informative case studies.

*The ZEDbook* is a must-have purchase for anyone wanting to make communities and the built environment more sustainable.

**Selected Contents:** Foreword. Introduction **Part 1: Principles for ZEDliving**

1.1 Make Carbon History 1.2 Design Out Fossil Fuels 1.3 Reduce Demand – Run on Native Renewables 1.4 Enable a High Quality of Life on a LOW Footprint 1.5 The ZEDstandards: A Checklist For ZEDliving **Part 2: Designing ZEDs** 2.1 A Guide to ZEDstandards 2.2 The ZEDphysics Model 2.3 Characterising a Development for Energy Use and Carbon Emissions 2.4 Characterising a Development for Comfort 2.5 The Effect of Climate 2.6 Building and Upgrading Houses to Zero Carbon Standards 2.7 Achieving Zero Carbon Emissions on a Large Development 2.8 Building Fabric and Insulation 2.9 ZEDfactory Wind Cowl Passive Heat Recovery Ventilation System 2.10 Passive Solar Design 2.11 Thermal Mass 2.12 Overheating Risk Assessment 2.13 Low and Zero Carbon Heating and Hot Water 2.14 Low Energy Air-Conditioning, Dehumidification and Cooling 2.15 Providing a Renewable Electricity Supply

**Part 3: Case Studies** RuralZED. SuburbanZED. Live/WorkZED. UrbanZED. CityZED. ZEDquarter

2007: 276pp

Pb: 978-0-415-39199-3: **\$61.95**

## The Environmental Brief

Pathways for Green Design

**Richard Hyde**, University of Queensland, Australia, **Steve Watson**, TVS Partnership, Australia, **Wendy Cheshire**, Hamilton Hayes Henderson Architects and **Mark Thompson**, TVS Partnership, Australia

**'This thoughtful investigation into how to achieve integrated design has a good balance of strategic how-to guidance and detailed information.'**

– *Technical & Practice*

2007: 336pp

Hb: 978-0-415-29044-9: **\$120.00**

Pb: 978-0-415-29045-6: **\$54.95**

eBook: 978-0-203-96681-5

## Electromagnetic Environments and Health in Buildings

Edited by **Derek Clements-Croome**

2003: 560pp

Hb: 978-0-415-31656-9: **\$190.00**

## Green Building Handbook: Volume 2

A Guide to Building Products and their Impact on the Environment

**Tom Woolley** and **Sam Kimmins**

2000: 192pp

Pb: 978-0-419-25380-8: **\$90.00**



## Visions of Sustainability

Cities and Regions

**Hildebrand Frey** and **Paul Yaneske**, both at University of Strathclyde, UK

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.

**Selected Contents: Part 1: The Quest for Sustainable Development** 1. United Nations Frameworks for Sustainable Development 2. The EU Debate on Sustainable Development 3. The UK Guidance to Achieve Sustainable Development 4. Best Practice Case Studies 5. Conclusions Development **Part 2: A Scientific Foundation for Sustainable Development** 6. Science, Complexity and Sustainability 7. Settlements and Cities in History that Correspond to Types 0, 1 and 2 of Sustainability 8. Challenges to Sustainability 9. Availability and Choice of Options

2007: 144pp

Hb: 978-0-415-42647-3: **\$160.00**

Pb: 978-0-415-42648-0: **\$53.95**



**NEW**

**2ND EDITION**

**TEXTBOOK**

## Sustainable Urban Design

An Environmental Approach

Edited by **Adam Ritchie**, Max Fordham LLP, London, UK and **Randall Thomas**, Consultant, Max Fordham LLP, London, UK

By the end of the twenty-first century it is thought that three-quarters of the world's population will be urban; our future is in cities. Making these cities healthy, vibrant and sustainable is an exceptional challenge which this book addresses. It sets out some basic design principles of our future cities and, through a series of case studies from leading designers' experience, illustrates how these ideas can be put into practice.

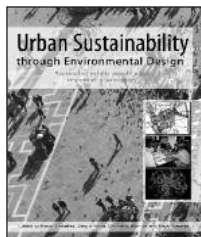
This second edition builds on its predecessor's format of design guidance and case studies, with the ideas and techniques being updated as a result of further research and practice by the contributors. The book emphasizes the enormous progress made towards exciting new designs that integrate good design with resource efficiency.

**Contents: Part 1: Sustainable Urban Design Concepts** 1. Introduction (Adam Ritchie) 2. Urban planning and design (Patrick Clarke) 3. Transportation (Robert Thorne, William Filmer-Sankey & Anthony Alexander) 4. Landscape and nature in the city (Christina von Borcke) 5. Building design (Randall Thomas & Adam Ritchie) 6. Energy and information (Randall Thomas & Adam Ritchie) 7. Materials (Sarah Roysse) 8. Water (Randall Thomas & Adam Ritchie) 9. Waste and resource (Adam Ritchie) 10. Summary (Adam Ritchie) **Part 2: Case Studies** 11. Coopers Road Estate regeneration (David Turrent) 12. Parkmount: streetscape and solar design (Richard Partington & Adrian Hornsby) 13. Coin Street Housing: the architecture of engagement (Graham Haworth) 14. Sustainable design in an urban context: three case studies (Alan Short) 15. BEDzed: Beddington zero-fossil energy development (Bill Dunster) 16. Bo01 and Flagghusen: ecological city districts in Malmö, Sweden (Eva Dalman & Cecilia von Scheele) 17. Stonebridge: negotiating between traditional and modernist models of city housing (Chris Watson) 18. 'Made in Stockwell' and Deptford Wharves (Katie Tonkinson & Adam Ritchie) 19. Millennium Water: Vancouver's Olympic Village, Canada (Rachel Moscovich)

September 2008: 240pp

Pb: 978-0-415-44782-9: **\$53.95**

For a complimentary copy visit [www.routledge.com/9780415447829](http://www.routledge.com/9780415447829)



## Urban Sustainability through Environmental Design

Approaches to Time-People-Place Responsive Urban Spaces

Edited by **Kevin Thwaites**, University of Sheffield, UK,  
**Sergio Porta**, Politecnico di Milano, Italy,  
**Ombretta Romice**, University of Strathclyde, UK and  
**Mark Greaves**, Glasgow City Council, UK

This is the first significant attempt to draw together European views on sustainable urban design with a specific focus on social sustainability. The book presents an innovative approach in that it focuses on the tools of urban analysis rather than the interventions themselves. The analytical tools are presented in a succinct style and fully referenced for further investigation. This approach gives the book a unique appeal to a wide range of potential users, from students to academics, to decision makers and professionals.

**Selected Contents:** **Part 1: Time-Conscious Urban Design** 1. Introduction: The Unsustainable Lasting of Time-Unconscious Urban Design 2. Time-Conscious Urban Design: A Common Ground **Part 2: Analysis for the Sustainable City** 3. Analytical Techniques for a Sustainable City: Kicking off the Toolbox 3.1. Practicing an Oxymore 3.2. The Tools. Conclusions

2007: 200pp

Hb: 978-0-415-39547-2: **\$170.00**

Pb: 978-0-415-38480-3: **\$34.95**

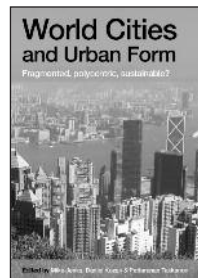
## Urban Design Futures

Edited by **Malcolm Moor**, University of Westminster, London, UK and  
**Jon Rowland**, Principal of JRUD Urban Designers, Oxford, UK

2006: 216pp

Hb: 978-0-415-31877-8: **\$165.00**

Pb: 978-0-415-31878-5: **\$57.95**



**NEW**

## World Cities and Urban Form

Fragmented, Polycentric, Sustainable?

Edited by **Mike Jenks** and **Daniel Kozak**, both at Oxford Brookes University, UK and **Pattaranan Takkanon**, Kasetsart University, Bangkok, Thailand

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:** Introduction: World Cities and Urban Form 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

July 2008: 384pp

Hb: 978-0-415-45184-0: **\$150.00**

Pb: 978-0-415-45186-4: **\$53.95**

**Shortlisted for the Sir Robert McAlpine RIBA International Book Awards for Construction 2007**

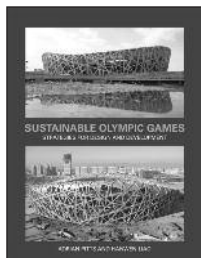
## Strategies for Sustainable Architecture

**Paola Sassi**

2006: 312pp

Pb: 978-0-415-34142-4: **\$84.00**

eBook: 978-0-203-48010-6

**NEW**

## Sustainable Olympic Games

Strategies for Design and Development

Adrian Pitts, Sheffield Hallam University, UK and  
Hanwen Liao, University of Greenwich, London, UK

This book explains how a 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. It offers an assessment tool that can be tailored to individual circumstance – a tool which emerges from the analysis of previous summer games host cities and from techniques in environmental analysis and assessment.

This important work demonstrates that with appropriate planning and design, Olympic urban development has the potential to leave positive environmental legacies to the host city and contribute to environmental sustainability.

**Selected Contents:** **Part 1: The Olympic Development Scenario** 1. Introduction  
2. Olympic History and its Urban Context **Part 2: Olympic Design and Development: Past and Present** 3. Olympic Urbanisation 4. Olympic Architecture: Competition Venues  
5. Olympic Architecture: Athlete Villages 6. The Olympic Impact on Host Cities 7. The London 2012 Olympics **Part 3: Evaluating Olympic Urban Development for Sustainability** 8. Infrastructural Requirements to Stage the Modern Games 9. Sustainable Olympic Urban Development 10. Proposed Evaluation Framework for the Olympic City  
11. Beijing 2008 and London 2012 12. Conclusions and Recommendations

October 2008: 224pp

Hb: 978-0-415-46761-2: **\$150.00**

Pb: 978-0-415-46762-9: **\$71.95**

**NEW**

## Regenerating London

Governance, Sustainability and Community

Edited by **Rob Imrie**, **Loretta Lees** and **Mike Raco**, all  
at King's College London, UK

*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.

**Selected Contents:** Preface: The Future of London? *Sir Peter Hall* Part 1: The Dimensions of Urban Change in London Part 2: Prestige Projects and the Sustainable City Part 3: Towards an Urban Renaissance: Sustainability, Inclusion, and Social Mixing Part 4: Community Governance and Urban Change Part 5: Conclusions

November 2008: 224pp

Hb: 978-0-415-43366-2: **\$150.00**

Pb: 978-0-415-43367-9: **\$46.95**

## Sustainable Architectures

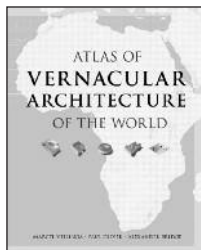
Critical Explorations of Green Building Practice in Europe and North America

Edited by **Simon Guy** and **Steven Moore**

2004: 288pp

Hb: 978-0-415-70044-3: **\$160.00**

Pb: 978-0-415-70045-0: **\$51.95**



**NEW**

## Atlas of Vernacular Architecture of the World

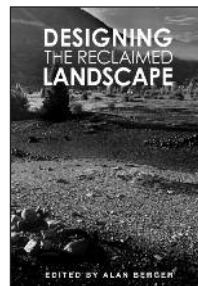
**Marcel Vellinga, Paul Oliver**, both at Oxford Brookes University, UK and **Alexander Bridge**, Cartographer, UK

The first world atlas ever compiled on vernacular architecture, this comprehensive work illustrates the variety and ingenuity of the world's vernacular building traditions, but additionally demonstrates their relationships spatially and in a global context. Sixty world and regional maps show the distribution, diffusion and use of vernacular building forms, technologies, materials and functions on a cross-cultural and comparative basis, mapping that is of vital importance for the responsible use of human and material resources in the development of culturally appropriate housing during the twenty-first century. The *Atlas* is an important reference work for all those involved in housing provision, design, conservation and planning.

**Selected Contents:** Introduction **Part 1: Contexts** 1. Nations 2. Topography 3. Water 4. Climate 5. Vegetation 6. Soils 7. Economy 8. Population 9. Language 10. Religion 11. Cultural Areas **Part 2: Cultural and Material Aspects** 12. Materials and Resources 13. Structural Systems and Technologies 14. Forms, Plans and Types 15. Services and Functions 16. Symbolism and Decoration 17. Development and Sustainability

January 2008: 160pp

Hb: 978-0-415-41151-6: **\$90.00**



## Designing the Reclaimed Landscape

**Alan Berger**, Harvard University Graduate School of Design, USA

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 USA, giving first rate practical examples. Drawing on the work of the well-known Project for Reclamation Excellence at Harvard's Graduate School of Design, this volume outlines the latest design thinking, theory and practice for landscape planners, Reclamation architects and designers, and others interested in maximizing the future potential of reclaimed land.

**Selected Contents:** Part 1: Contextualizing Landscape Alteration Through Historic, Systemic, and Biologic Perspectives Part 2: Interdisciplinary Responses and Opportunities in Reclamation Part 3: Technology, Representation, and Information in Reclamation Design Part 4: Future Directions and Programs in U.S. Reclamation Policy and Law

2007: 200pp

Hb: 978-0-415-77303-4: **\$75.00**

eBook: 978-0-203-93573-6



## Designing Sustainable Forest Landscapes

**Simon Bell**, Edinburgh College of Art, UK and  
**Dean Apostol**, University of Oregon, USA

This book is a definitive guide to the design and management of forest landscapes, covering the theory and principles of forest design as well as providing practical guidance on methods and tools in a variety of forest areas.

**Selected Contents:** Introduction. Part 1: Key Concepts for Forest Design Part 2: The Process, Techniques and Implementation of

Forest Design Part 3: Forest Design Application

2007: 368pp

Hb: 978-0-419-25680-9: **\$100.00**

eBook: 978-0-203-93627-6

## Earth Building

Methods and Materials, Repair and Conservation

**Laurence Keefe**

2005: 208pp

Pb: 978-0-415-32322-2: **\$70.00**

2ND EDITION

## Renewable Energy Resources

**John Twidell** and **Tony Weir**

2005: 624pp

Hb: 978-0-419-25320-4: **\$200.00**

Pb: 978-0-419-25330-3: **\$70.00**



TEXTBOOK

## The Green Braid

Towards an Architecture of Ecology, Economy and Equity

Edited by **Kim Tanzer**, University of Florida, USA and  
**Rafael Longoria**, University of Houston, Texas, USA

*Series: The ACSA Architectural Education Series*

Drawn from over fifteen years of peer-reviewed essays and national design awards published by the Association of

Collegiate Schools of Architecture (ACSA), this volume presents the discipline's best thinking on sustainability in written, drawn, and built form. Using essays that alternately revise and clarify twentieth century architectural thinking, *The Green Braid* places sustainability at the centre of excellent architectural design. No other volume addresses sustainability within the context of architectural history, theory, pedagogy, and design, making this book an ideal source for architects in framing their practices, and therefore their architectural production, in a sustainable manner.

**Selected Contents:** Part 1: The Green Braid: Networked Ways of Knowing Part 2: Meta-Discourses in Pedagogy and Practice Part 3: Phenomena and Technology Part 4: Building Practices Part 5: Settlement Patterns Part 6: The Shared Realm

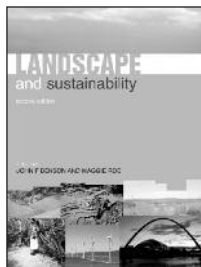
2007: 400pp

Hb: 978-0-415-41499-9: **\$150.00**

Pb: 978-0-415-41500-2: **\$45.95**

eBook: 978-0-203-96488-0

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2ND EDITION

## Landscape and Sustainability

Edited by **John Benson** and **Maggie Roe**, University of Newcastle upon Tyne, UK

This unique book addresses the issue of sustainability from the point of view of landscape architecture, dealing with professional practices of planners, designers and landscape managers. This second edition contains updated and new material reflecting developments during the last five years and comprehensively addresses the relationship between

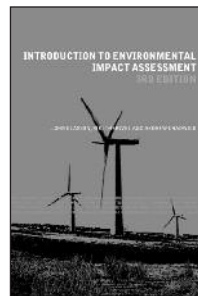
landscape architecture and sustainability.

**Selected Contents:** 1. The Scale and Scope of Landscape and Sustainability 2. The Ethics of Sustainability 3. The Landscape of Sustainable Economics 4. The Social Dimensions of Landscape Sustainability 5. International Policies and Landscape Protection 6. Landscape Sustainability at the National and Regional Scales 7. Regional Landscape Strategies 8. Multifunctional Landscapes: Conceptual and Planning Issues for the Countryside 9. Landscape, Planning and City Form 10. Resources: The Raw Materials of Landscape 11. The Practice of Sustainable Landscape Architecture 12. Community Landscape Architecture 13. Sustainable Landscape Management 14. Visions of Sustainability

2007: 336pp

Hb: 978-0-415-40443-3: **\$126.00**

eBook: 978-0-203-96208-4



3RD EDITION

## Introduction to Environmental Impact Assessment

**John Glasson, R. Therivel** and **Andrew Chadwick**

*Series: The Natural and Built Environment Series*

2005: 448pp

Hb: 978-0-415-33836-3: **\$126.00**

Pb: 978-0-415-33837-0: **\$52.95**

eBook: 978-0-203-02306-8

## The Green City

Sustainable Homes, Sustainable Suburbs

**Nicholas Low, Brendon Gleeson, Ray Green** and **Darko Radovic**

2005: 248pp

Pb: 978-0-415-37231-2: **\$38.95**

## Visualization in Landscape and Environmental Planning

Technology and Applications

Edited by **Ian Bishop** and **Eckart Lange**

2005: 320pp

Hb: 978-0-415-30510-5: **\$105.00**



**FORTHCOMING**

**3RD EDITION**

## Methods of Environmental Impact Assessment

John Glasson, R. Therivel and Andrew Chadwick

*Series: The Natural and Built Environment Series*

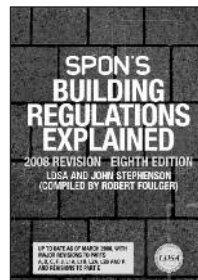
Offering a comprehensive coverage of the methods used in environmental impact assessment, the well-known textbook is intended for students of Planning, Geography and Environmental Studies. The third edition focuses on updating legal materials and best practice, and reflects current debates in public policy and planning, including an additional chapter on EIA and Sustainability.

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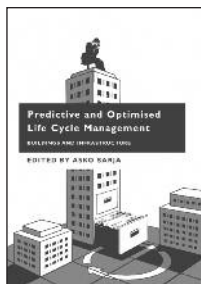
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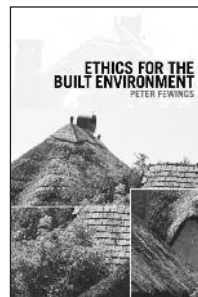
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