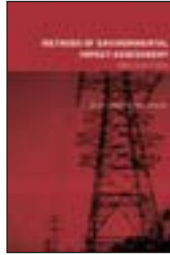


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The Toolkit for Assessment

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.

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**David Levitt**, Levitt Bernstein Associates, UK

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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.

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Fragmented, Polycentric, Sustainable?

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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.

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Strategies for Design and Development

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

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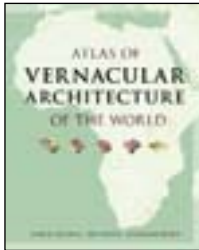
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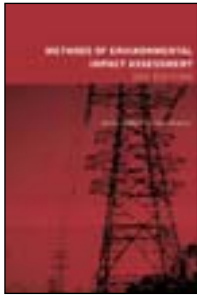
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Nicholas Low, Brendon Gleeson, Ray Green and Darko Radovic

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**NEW**

2ND EDITION

## Refurbishment and Upgrading of Buildings

David Highfield and Christopher Gorse, both at Leeds Metropolitan University, UK

A detailed guide to the technical aspects of refurbishing and upgrading buildings, this book provides solutions to a range of problems, challenges and issues and is essential reading for all students studying building refurbishment at all levels. Includes:

- existing floor and wall strengthening
- facade retention
- introduction of new floors
- timber decay problems
- fire-resistance
- prevention of moisture and damp
- upgrading thermal and acoustic performance.

This new edition has been fully updated to include new technological information, and covers new areas such as stonework restoration and repair, upgrading of c1960 framed buildings, refurbishment logistics and case-studies.

**Selected Contents:** Introduction 1. Why Refurbishment? 2. Upgrading the Fire-resistance of Existing Elements 3. Upgrading Internal Surfaces 4. Upgrading the Thermal Performance of Existing Elements 5. Upgrading the Acoustic Performance of Existing Elements 6. Preventing Moisture and Dampness within Buildings 7. Introduction of New Floors and Access between Levels 8. Timber Decay and Remedial Treatments 9. Strengthening of Existing Timber Floors 10. Heavy-lifting Systems 11. Underpinning Systems 12. Strengthening Existing Walls 13. Façade Retention Index of Products and Systems

April 2009: 246x189: 272pp

Hb: 978-0-415-44123-0: **£80.00**

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8TH EDITION

## Spon's Building Regulations Explained

2009 Revision

London District Surveyors Association and John Stephenson

Almost all buildings erected or altered must satisfy the requirements of the building regulations. This fully revised, essential reference takes into account all important aspects of building control including new legislation up to the start of 2009, covering major revisions to Documents A, B, C, F, J, L1A, L1B, L2A, L2B and P and revisions to Document E.

**Selected Contents:** Forewords. List of Abbreviations. List of Statutes Mentioned in Text 1. The Development of Building Control 2. Control of Building Work 3. Application of Building Regulations to Inner London 4. Relaxation of Building Regulations 5. Exempt Buildings and Works 6. Notices and Plans 7. Approved Inspectors 8. Work Undertaken by Public Bodies 9. Materials and Workmanship (Approved Document to Support Regulation 7) 10. Structure (Approved Document A) 11. Fire Safety (Approved Document B) 12. Site Preparation and Resistance to Moisture (Approved Document C) 13. Toxic Substances (Approved Document D) 14. Resistance to Passage of Sound (Approved Document E) 15. Ventilation and Condensation (Approved Document F) 16. Hygiene (Approved Document G) 17. Drainage and Waste Disposal (Approved Document H) 18. Combustion Appliances and Fuel Storage Systems (Approved Document J) 19. Protection from Falling, Collision and Impact (Approved Document K) 20. Conservation of Fuel and Power (Approved Documents L1 and L2) 21. Access to and Use of Buildings (Approved Document M) 22. Glazing: Safety in Relation to Impact, Opening and Cleaning (Approved Document N) 23. Other Approved Documents. Appendix A: Definitions. Appendix B: Sources of Information and Research. Appendix C: Relevant Legislation. Appendix D: Appeals and Determinations. Appendix E: Checklists. Index

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## Whole Life Costing

### A New Approach

Peter Caplehorn, Scott Brownrigg, UK

Whole life costing has been a subject waiting to come of age for many years. What was previously of mainly academic interest is now becoming a key business tool in the procurement and construction of significant projects.

Additionally as sustainability has emerged and grown in importance, so has the need for a whole life time costing approach, partly driven by governmental insistence. At the heart of sustainability is an understanding of what the specification means for the future of the building and how it will affect the environment. Whole life costing considers part of this and provides an understanding of how materials may perform and what allowances are needed at the end of their life.

This book sets out the practical issues involved in the selection of materials, their performance, and the issues that need to be taken into account. The emphasis, unlike in other publications, is not to formularize or to package the issues but to leave the reader with a clear understanding and a sensible practical way of arriving at conclusions in the future.

September 2009: 246x174: 304pp

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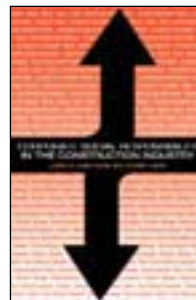
## Predictive and Optimised Life Cycle Management

### Buildings and Infrastructure

Edited by **Asko Sarja**, VTT Building and Transport, Finland

2006: 246x174: 688pp

Hb: 978-0-415-35393-9: **£111.00**



## Corporate Social Responsibility in the Construction Industry

Edited by **Michael Murray**, University of Strathclyde, Glasgow, 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.

**Select Contents:** 1. Introduction 2. The Evolution of Corporate Social Responsibility in Construction 3. A Business Case for Developing a CSR Policy 4. The Role of Construction in Developing Countries 5. Community Interaction 6. Corruption in the UK 7. International Corruption 8. Cartels 9. Sustainable Development 10. The Eco-Building Movement 11. UK House-Building 12. Occupational Health and Safety 13. USA 14. South Africa 15. Hong Kong and Asia Pacific 16. Australia

2008: 234x156: 432pp

Hb: 978-0-415-36207-8: **£80.00**

Pb: 978-0-415-36208-5: **£29.99**



## Ethics for the Built Environment

Peter Fewings, University of the West of England,  
Bristol, UK

This book looks at how people develop their personal values and tries to set up a model for making effective ethical decisions. It exposes areas of weakness that may inhibit better relationships in projects and partnerships and suggests decision making frameworks. It will be invaluable for professional institutions, students, young practitioners in all stages of the development cycle from planning, property management, design, project management and facilities management, contractors and clients.

**Selected Contents: Part 1: Principles and Issues Introduction** 1. Development of an Ethical Framework 2. Dilemmas and Decision Making 3. Corporate Social Responsibility 4. Professional Codes 5. Human Resource Ethics 6. Health and Safety 7. Planning 8. Sustainability 9. Trust and Relationships 10. Bribery and Corruption 11. Good Faith  
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## Hazards and the Built Environment

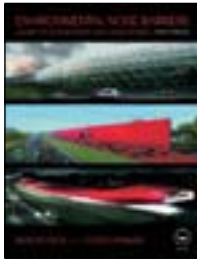
Attaining Built-in Resilience

Edited by **Lee Boshier**, Loughborough University, UK

Since the built environment and urban infrastructure provide the core framework for most human activity, it is crucial to develop them with an effective measure of resilience so they can withstand, and adapt to, the threats of natural and human-induced hazards. This book sets out to explore the challenges facing the built environment and examines the strategies that must be taken if built-in resilience is to be realized in the future and built assets safeguarded.

**Selected Contents:** Built-in Resilience. Disaster Risk Management. Construction in Developing Nations. Case for Prevention. Structural Adaptation in India. Seismic Design and Retrofit. Residential Properties in England. The Lower Thames Designing in Resilience. Community-Based Construction for Risk Reduction. Informal Settlements and Hazard Vulnerability. Corruption, Construction and Catastrophe. Legal and Contractual Frameworks. Implications of the Civil Contingencies Act. Security Planning. Planning Ahead

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**NEW**

**2ND EDITION**

## Environmental Noise Barriers

A Guide To Their Acoustic and Visual Design

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

*Environmental Noise Barriers* is a unique one-stop examining both the acoustical and landscaping issues affecting the design of barriers. Detailed consideration is given to materials, engineering, legal and environmental issues as well as the health and social impacts of noise barriers.

This extensively revised new edition is updated in line with UK and EU legislation and international provision of barriers. The use of new materials, designs and design thinking are discussed. It includes new methods for improving the acoustic performance of barriers and extended sections on road surfacing, tunnels and railways and aircraft/airport acoustic amelioration. The sections on vegetative barriers, the use of photovoltaics and integrated solutions have been expanded.

**Selected Table of Contents:** Introduction. Defining the Need for Barriers. Acoustic and Visual Impact Assessment – Environmental Impact Assessment Techniques and Mitigation. Acoustic Performance of Barriers. Barrier Morphology and Design. Types of Barrier and Barrier Materials. Planting and Bio-barriers. Noise Amelioration and Roads. Tunnels. Airports. Environmental Noise Barriers in Other Locations – Industrial Uses

March 2009: 246x189: 280pp  
Hb: 978-0-415-43708-0: **£90.00**



## Tropical Urban Heat Islands

Climate, Buildings and Greenery

**Nyuk Hien Wong** and **Chen Yu**, both at the National University of Singapore

*Series: Spon Research*

Including a colour section with thermal images and maps, this book explores the complex relationships between climate, buildings and plants, especially in urban heat islands. These relationships bear very critically on a range of environmental issues and point to some corresponding solutions. One chapter highlights some of the extensive research work carried out in Singapore, especially investigating the thermal benefits of greenery in buildings in the urban setting.

**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

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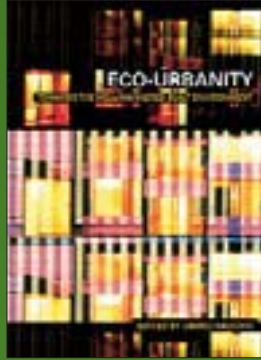
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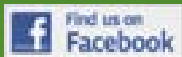
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