

Sustainable Construction



Sandy Halliday



Contents: Sustainability Drivers, Policy and Legislation, Cost Issues, Appraisal Tools and Techniques, Materials Selection, Low Impact Construction, Heating, Electrical Installations, Lighting and Daylighting, Ventilation and Cooling Strategies, Renewable Technologies, Water and Sewage Management, Construction Processes, Urban Ecology.

This groundbreaking book will help all building design, management and cost professionals to understand sustainable design and provide the technical skills needed to implement the most up-to-date concepts.



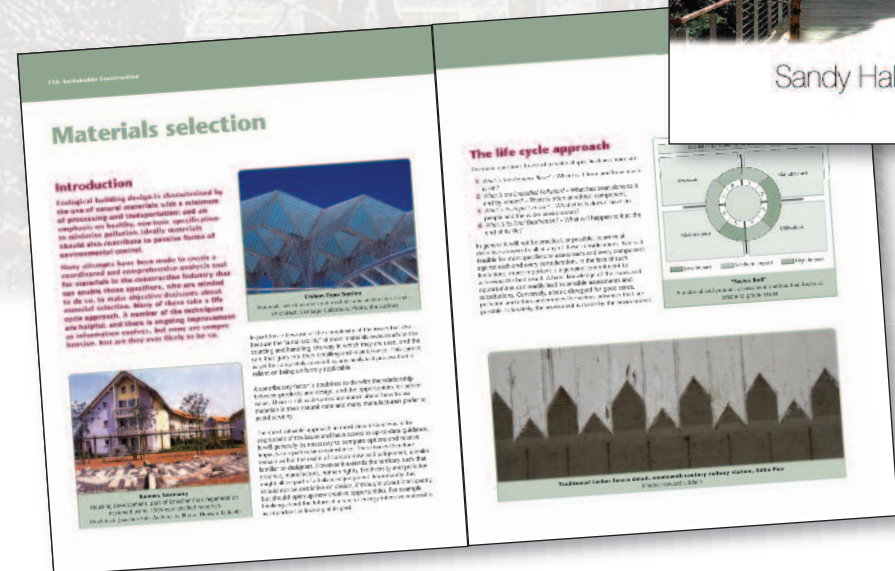
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- ▲ Best practice solutions and case studies show you how to achieve practical, affordable, replicable, sustainable design
- ▲ Learn how to implement the most up-to-date sustainable construction techniques
- ▲ Engaging and accessible text with photographs, diagrams and sidebars

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“**Sustainable Construction** is a profoundly usable guide to building appropriately for the world we inhabit, so that it remains a renewing resource for future generations. It’s also that rarest of things for a supposedly technical document: a truly inspiring piece of work.”

— **Stephanie Saulter, Project Manager, The Shoreditch Trust**

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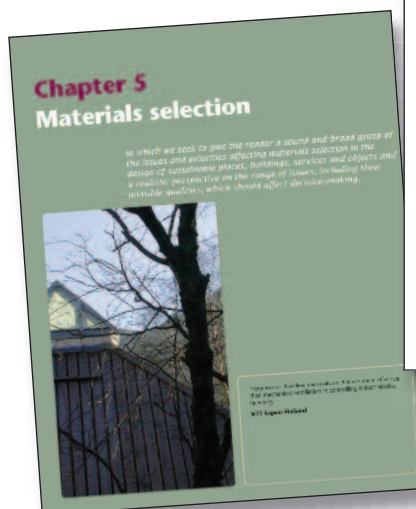
Based on a hugely successful series of workshops for professionals in construction, the book covers the history of ideas, materials, measurement — both cost and benchmarking performance — environmental services, and the building design and delivery process through to post-occupancy evaluation. It covers individual buildings and the urban scale.

It has something new and often surprising in it for everybody in the construction industry:

- ▲ For the **Architect** and **Engineer** it gives chapter and verse to the basic design issues at all scales and through the whole of the plan of work
- ▲ For **Quantity Surveyors** and cost professionals it challenges current conventions with researched case study evidence
- ▲ For **clients** and **project managers** it outlines the drivers and the justification for a sustainable approach and outlines the legislative framework; and it gives guidance on procurement and project and site management issues
- ▲ For **contractors** and **developers** it contains a wealth of case study material, rooted in practical experience and economic reality.
- ▲ For **teachers** and **students** it will bust myths, liberate thinking and inform design



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“This book should be read by every construction professional, and be on every student’s reading list. It is the product of half a lifetime’s work on sustainability, based on Gaia’s eco-minimalist approach “the most important factors in delivering sustainability are a clear understanding, high aspiration and constant vigilance.” If only more designers would follow that advice.”

— **Jim Johnson, Scottish Ecological Design Association (SEDA) magazine**