



Sustainable Timber Design

By Michael Dickson, Dave Parker

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This new resource covers the material selection, structural design and connections detailing of truly sustainable timber buildings through:

- consideration of the nature of wood and the heritage of timber construction, including the importance of forestry and conservation
- a review of modern techniques to improve the durability, fire resistance and predictability of structural timber elements and their vital connections
- analysis of the many architectural and structural options, from roundwood shells through glulam arches and gridshells to long span hybrid structures
- case studies from around the world illustrating the principles discussed and the true potential of timber construction

Historically there has been an imbalance between the availability of information on structural timber design and the much more widespread familiarity with traditional structural materials such as steel and concrete. This book aims to help

redress the balance by presenting the essential design principles involved in the creation of elegant, user-friendly timber buildings that are practical, economic, and thoroughly sustainable.

Designed to support specialist study into the benefits of 21st Century timber engineering, this book also offers architects, engineers and other construction professionals practical advice on all aspects of modern timber architecture.

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Editorial Review

Review

"A comprehensive compilation of timber information which unusually provides the authors' opinion on a number of aspects. The case studies provide inspiration to build more with wood!" - *Simon Smith, Director of Smith and Wallwork*

About the Author

Michael Dickson, CBE, FREng, FStructE, FICE, Hon FRIBA, was a Founding Partner of Buro Happold and Chairman 1996 - 2005. Buro Happold is an international multidisciplinary engineering and consultancy practice with offices in Europe, the Middle and Far East, and the USA. Michael is a Visiting Professor of Engineering Design at Bath University, School of Architecture and Civil Engineering, and was President of the Institution of Structural Engineers in 2006. He continues as a consultant to Buro Happold and a trustee of BRE.

Dave Parker, BSc, CEng, FICE, FRSA, FIQA, was Technical Editor of *New Civil Engineer* magazine for 12 years before leaving in May 2006 to become a freelance author and journalist. He is a former Visiting Professor of Civil Engineering at Queen's University Belfast, and his interests include renewable energy and the history of construction. In 2014 NCE asked him to return as technical editor emeritus.

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