



Bamboo Gridshells

By David Rockwood

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Bamboo Gridshells By David Rockwood

This highly illustrated text brings together two areas which have both grown in popularity in recent years: gridshells and bamboo.

Bamboo is a fast-growing, naturally available, renewable resource which is quite strong and lends itself to structural applications. In this unique text, David Rockwood demonstrates the viability of bamboo as a building material and considers the advantages – as well as the challenges – of working with bamboo. Its properties, workability, connections, assembly, erection processes, structural behavior, and final use are explored in detail through a series of design-build experiments and case studies from Hawai'i and Vietnam.

The only book available on the subject, *Bamboo Gridshells* provides a comprehensive introduction to this emerging technology which will be of interest to anyone working in the areas of sustainable or environmental design, ecological construction, low technology strategies, or alternative materials.

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Editorial Review

Review

'This book is for architects, engineers and builders who thrill to unexpected techniques and to doing more with less - in this case the marriage of a magically fast-growing, giant woody grass to curvy, long span structures. *Bamboo Gridshells* is a future classic, in which a vernacular, low-key/low-cost/low-tech building material meets the contemporary, high-tech structural shell. David Rockwood writes as precisely as Aristotle, whom he wisely invokes in this simple primer on the kind of elegantly lean and renewable architecture that the 21st Century so needs.' - Doug Kelbaugh, *Professor of Architecture and Urban Planning and former Dean, Taubman College of Architecture and Urban Planning, University of Michigan, USA*

About the Author

David Rockwood is Associate Professor; Director, Construction Process Innovation Lab; and Co-Director, Urbanism Research Lab at the University of Hawai'i at Mānoa, School of Architecture, USA. Rockwood's research focuses on material, structure, and construction processes for high performance buildings. He was named a Fulbright Specialist in 2014.

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