

New Bamboo Architecture And Design

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Good Energy - Jared Green 2021-04-15

Good Energy delivers a declaration that renewable energy can be beautiful, affordable, and easy to implement. Jared Green highlights thirty-five case studies from around the world, featuring a wide array of designs and building types that achieve good energy, good design, and excellent cost-efficiency. Single-family homes, townhouses, community spaces, schools, offices, and even power plants demonstrate that relying on solar, wind, and geothermal energy doesn't have to cost more. Each inspiring design harmonizes nature, technology, and democratic space and shows that renewable energy can be appealing and accessible to everyone. An interview with Mark Z. Jacobson, Stanford University professor of civil and environmental engineering and cofounder of the Solutions Project, discusses pathways to 100-percent renewable energy around the globe through good design.

Bamboo Architecture - Vladimir Belogolovsky 2021-02-28

From the world's leading publisher of Architecture and Architectural Practices, comes a look into how VTN Architects have used bamboo to create groundbreaking projects. With the climate crisis raging and awareness of humanity's detrimental impact on the environment now patently apparent, the need for architects to come up with sustainable new solution has never been more pressing. A key part of any green

approach to architecture is the use of local natural materials with a low environmental impact. Bamboo, which has been widely used in Asian architecture for centuries as scaffolding and for bridges, pavilions, houses and other structures, is an ideal material in this context: lightweight, strong and readily available. In an effort to meet the challengers of the 21st century, VTN Architects has developed new ways of working with two species of bamboo in particular, the flexible Tam Vong and the sturdier Luong, creating a manufacturing workflow that allows for the production of standardised modules, a knitting technique that enables the material to span large distances and environmentally friendly traditional treatments such as mud-soaking and smoking. In Bamboo Architecture, we see how these methods have been applied in award-winning, groundbreaking projects such as the Wind and Water Café, Diamond Island Community enter, and the majestic Vedana Restaurant, alongside an illuminating introduction by Masaaki Iwamoto and an interview with the studio principal Vo Trong Nghia who offers an inspiring vision for the future of natural, green architecture.

Drawdown - Paul Hawken 2017-04-18

• New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world “At this point in time, the

Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, *Vox* “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

Bamboo - Oscar Hidalgo López 2003

Tensile Surface Structures - Michael Seidel 2009-05-13

Tensile surface structures are the visual expression of an intensive rethinking of the topic of building envelopes by designers. Advances in

design methods, materials, construction elements and assembly and erection planning in the field of lightweight construction are enabling ever more exacting applications of tensile structures with envelope and structural functions, especially in roofing over large clear spans without internal support. However, the particular mechanical characteristics of the materials used in the construction of textile structures demand consideration of the question of "buildability". This book provides answers by discussing the fundamental influence of material manufacture and assembly in deciding the most suitable type of building or structure and its detailing in the design process. The fundamentals of material composition, manufacturing process, patterning and the behaviour of flexible structural systems are all explained here, as well as their use as structural and connection elements, and special attention is given to the erection of wide-span lightweight structures. The erection equipment is described, as well as the lifting and tensioning process and the construction methods used to erect the characteristic types of tensile structures, illustrated with a selection of example projects. Forward by Werner Sobek.

Bamboo Architecture in Competition and Exhibition - Robert Henrikson 2011

Fascinating bamboo buildings and architectural designs from around the world from the International Bamboo Building Design Competition, the 2010 Shanghai World Expo and several other competitions and exhibitions. Architects and designers from 64 countries submitted 250 designs in 12 building categories such as family houses, urban buildings, emergency shelters, commercial and public buildings, pavilions, and even tree houses. The buildings and designs use bamboo and other natural building materials, and range from modest to majestic, commercial to humanitarian, and practical to fanciful. The results are truly exciting and innovative, providing a fresh outlook for the possibilities for using bamboo to build a new green world. At the 2010 Shanghai World Expo, great architects showcased bamboo in eight remarkable pavilions, demonstrating the contribution bamboo can play in a better life.

Architecture of Defeat - Kengo Kuma 2019-06-11

Kengo Kuma, one of Japan's leading architects, has been combining professional practice and academia for most of his career. In addition to creating many internationally recognized buildings all over the world, he has written extensively about the history and theory of architecture. Like his built work, his writings also reflect his profound personal philosophy. *Architecture of Defeat* is no exception. Now available in English for the first time, the book explores events and architectural trends in the twentieth and twenty-first centuries in both Japan and beyond. It brings together a collection of essays which Kuma wrote after disasters such as the destruction of the World Trade Center in New York City on 9/11 and the earthquake and tsunami that obliterated much of the built landscape on Japan's northern shore in a matter of minutes in 2011. Asking if we have been building in a manner that is too self-confident or arrogant, he examines architecture's intrinsic—and often problematic—relationship to the powerful forces of contemporary politics, economics, consumerism, and technology, as well as its vital ties to society. Despite the title, *Architecture of Defeat* is an optimistic and hopeful book. Rather than anticipating the demise of architecture, Kuma envisages a different mode of conceiving architecture: guided and shaped by more modesty and with greater respect for the forces of our natural world. Beautifully designed and illustrated, this is a fascinating insight into the thinking of one of the world's most influential architects.

Bamboo Architecture - Markus Heinsdorff 2014-09-15

Since 1997, architect and installation artist Markus Heinsdorff has focused much of his work on the potential and possibilities afforded by bamboo. This volume shows how that interest played out in his design for the Sino-German pavilion at Expo 2010 in Shanghai.

Contemporary Bamboo Architecture in China - K. W. Liu 2022-03-10

This book describes the distribution of bamboo forest and bamboo species for construction, the types and characteristics of both engineered and natural full-culm bamboo materials for construction, the development history and research status of different forms of bamboo architecture. We go on to describe standards, relevant international organizations, research institutions and production and processing enterprises and

typical cases. Starting from six aspects, this book systematically describes modern bamboo building development, analyzes the opportunities and challenges faced by the bamboo construction industry and provides guidance for the development of the bamboo construction industry in China. Particularly in Chapter 6, more than 70 examples constructed mostly since 2014 are selected to provide a detailed overview of the use of bamboo as decorative and structural materials. In order to fully explore the potential of bamboo in engineering applications, the authors introduce the use of bamboo construction for transportation facilities (bridges, highway landscape fences and bus stations), landscape, water pipelines and urban municipal tunnels. The authors hope readers are inspired by these most vivid cases and experience the charm of modern Chinese bamboo architecture.

Bamboo Gridshells - David Rockwood 2015-05-08

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.

Designing and Building with Bamboo - Jules J. A. Janssen 2000

Natural Architecture Now - Francesca Tatarella 2014-08-19

Our 2007 hit *Natural Architecture* introduced artists and architects who transform the act of building into a fascinating new art form. Built from humble elements—branches, twigs, straw, bamboo—and fulfilling a wide

variety of intentions—sometimes structural, sometimes sculptural, sometimes sacred—their fantastical creations resonate with an innate natural beauty. *Natural Architecture Now* features all-new site-specific installations by an international list of contributors. From an engineered oasis and climbing structure in Joshua Tree National Park to an intricate bamboo installation on top of the Metropolitan Museum of Art to a residential mud structure prototype created by Architecture for Humanity Tehran, each project points a way forward for architects to engineer a new organic simplicity of structure and form.

Bamboo - Eduard Broto 2014

2019 International Bamboo Construction Competition - Kewei Liu
2022-03-09

This volume builds upon the 2019 International Bamboo Construction Competition (IBCC 2019) from the Concepts to the Realized Pavilions. Several designed projects are described, and particular attention is devoted to the realized prototypes. It also presents the Bamboo Eye, an important example of architecture realized by INBAR for the 2019 Beijing Horticultural Expo. As such, the volume provides an overview of the use of bamboo poles and engineered bamboo products for temporary and normal constructions, and represents a compact review of the applications of bamboo poles and/or engineered bamboo products in the construction industry. This book will be of interest for researchers, architects and structural engineers in field of bamboo constructions.

Modern Bamboo Structures - Yan Xiao 2008-09-01

Bamboo materials are well available in the world. Bamboo has much shorter maturity than trees, thus can be harvested with shorter cycles of plantation. Despite the fact that human society has a long history of using bamboo, there is still a lack of modern and industrialized application of bamboo materials in construction. Promoting the application

Habitat - Sandra Piesik 2017-10-31

Vernacular architecture is architecture without architects; designed based on local needs, these buildings make use of natural resources and demonstrate diverse architectural forms, design elements unique to their

culture, and ingenious construction techniques. From bamboo garden pavilions in China to homes made from reeds in southern Iraq, and mud dwellings in Mali to pine huts in Siberia, *Habitat* showcases the diverse and indigenous materials that can be used to build innovative, sustainable structures. The core of *Habitat* is arranged by climate zone, from desert to tropical, temperate to arctic. Within each section, buildings are presented regionally, showing how local climatic conditions and vegetation affect the evolution of building styles. Complete with a range of essays exploring the economic and anthropological aspects, as well as a reference section with information on materials science and engineering, *Habitat* offers real-world insights into sustainable buildings and stresses the importance of preserving disappearing craftsmanship and local knowledge.

Bamboo Architecture & Design - Eduard Broto 2014

This volume uncovers contemporary architecture and design's resurgent love affair with bamboo. Light, stiff, strong and incredibly fast growing, bamboo is a true super-plant, and in construction it is becoming a super-material. Used in many cultures for generations, it is enjoying a renewal of interest around the world due to its unique properties and the wide range of uses it can be put to. Collected here are some of the most beautiful, creative and cutting edge bamboo projects of recent years, illustrated with full color photographs, plans, and the architects' explanations of their techniques and inspirations.

New Bamboo - Marcelo Villegas 2003

Bambusa guadua, the tropical giant bamboo, is the most versatile, reliable architectural material of its native mountainous regions. Bamboo's delightful exterior and exotic reputation obscures its oaklike strength. 'New Bamboo' is a colour portfolio of contemporary structures and decorative designs demonstrating the appeal of building with natural materials for the modern eye. Properly treated, bamboo is as reliable as prime-grade hardwoods, beautiful in its own right, and suitable for commercial and residential structures in any climate. This is an anthology of bamboo construction by different experts: an agronomist, architects, a designer, and a builder, that showcases projects in Mexico, Brazil, Ecuador, Panama, and Colombia, where this product has been used as a

traditional construction material for centuries. Also covered are France and Germany, where architects are discovering the delights of working with bamboo. Guadua is beautiful but not so delicate that it cannot be used in commercial structures like the auditorium-size pavilion built for the Hannover Expo 2000. Here are delightful details and rugged outbuildings that show bamboo as a most natural design element.

Bamboo - Simone Schleifer 2019-07

Bamboo has gained the name of "plant steel" in the field of construction. Since ancient times, it has been widely used in Asia and Latin America. For many years bamboo had lost its role as a construction material in parts of the world where it grows indigenously due to an increase in the use of more modern material. It was gradually replaced by concrete, steel, and wood and became known as a "poor man's wood." Thanks to the research and design carried out by key worldwide architects and engineers in recent decades, this attractive natural material is being reconsidered as a construction and basic design material. This book features international examples of current projects where bamboo has been used as the main material.

Bamboo in Japan - Nancy Bess 2001-05-18

This is a fully illustrated guide to the art, craft and design of bamboo, as demonstrated by the Japanese. It demonstrates how to use inexpensive materials to create sophisticated effects in the home and garden. A list of bamboo collections, gardens and research sources is included. For centuries, bamboo has fascinated legions of craftspeople, plant lovers and devotees of the handcrafted object. And nowhere is bamboo used more elegantly and distinctly than in Japan. Its presence touches every part of daily life-art, crafts, design, literature, and food. Its beauty

Bamboo Architecture - Alexander Vegesack 2010

House of Leaves - Mark Z. Danielewski 2000-03-07

"A novelistic mosaic that simultaneously reads like a thriller and like a strange, dreamlike excursion into the subconscious." —The New York Times Years ago, when House of Leaves was first being passed around, it was nothing more than a badly bundled heap of paper, parts of which

would occasionally surface on the Internet. No one could have anticipated the small but devoted following this terrifying story would soon command. Starting with an odd assortment of marginalized youth -- musicians, tattoo artists, programmers, strippers, environmentalists, and adrenaline junkies -- the book eventually made its way into the hands of older generations, who not only found themselves in those strangely arranged pages but also discovered a way back into the lives of their estranged children. Now this astonishing novel is made available in book form, complete with the original colored words, vertical footnotes, and second and third appendices. The story remains unchanged, focusing on a young family that moves into a small home on Ash Tree Lane where they discover something is terribly wrong: their house is bigger on the inside than it is on the outside. Of course, neither Pulitzer Prize-winning photojournalist Will Navidson nor his companion Karen Green was prepared to face the consequences of that impossibility, until the day their two little children wandered off and their voices eerily began to return another story -- of creature darkness, of an ever-growing abyss behind a closet door, and of that unholy growl which soon enough would tear through their walls and consume all their dreams.

Nonconventional and Vernacular Construction Materials - Kent A. Harries 2019-11-18

Nonconventional and Vernacular Construction Materials: Characterisation, Properties and Applications, Second Edition covers the topic by taking into account sustainability, the conservation movement, and current interests in cultural identity and its preservation. This updated edition presents case studies, information on relevant codes and regulations, and how they apply (or do not apply) to nocmats. Leading international experts contribute chapters on current applications and the engineering of these construction materials. Sections review vernacular construction, provide future directions for nonconventional and vernacular materials research, focus on natural fibers, and cover the use of industrial byproducts and natural ashes in cement mortar and concrete. Takes a scientifically rigorous approach to vernacular and non-conventional building materials and their applications Includes a series of case studies and new material

on codes and regulations, thus providing an invaluable compendium of practical knowhow Presents the wider context of materials science and its applications in the sustainability agenda

Bamboo Fences - Isao Yoshikawa 2009-04-15

Bamboo has emerged as the building material of choice for the twenty-first century. Designers in every field from architecture to aeronautics are discovering ever more innovative uses for the miracle plant. Five times stronger than concrete and flexible enough to be woven like silk, bamboo has for millennia been an indispensable necessity of life for cultures around the world. Botanically classified as a grass, it is one of the fastest growing plants on earth. Its abundance and extreme durability have made it a natural choice as the raw material for fences and partitions. Indeed, in Japan, bamboo fence building has become an art form, and endless varieties of bamboo fences exist, from simple picket designs to elaborate fences woven with bamboo branches. *Bamboo Fences* provides a detailed look at the complex art of bamboo fence design and presents these unique structures in more than 250 photographs and line drawings. Author Isao Yoshikawa gives a brief overview of the history of bamboo fence building in Japan and classifies the different designs by type. A glossary provides an explanation of Japanese fence names and structural terms. Yoshikawa explains how the wide range of fence designs had its origin partly in the full development of the tea ceremony during the sixteenth century, when elegant bamboo fences became important elements of tea ceremony gardens. Bamboo partitions were used in Zen temples, and from there spread to ordinary homes. Many fence styles are named for the temple in which the first of their kind was built. From the widely used "four-eyed fence" (yotsume-gaki) and the fine "raincoat fence" (mino-gaki) to the expensive "spicebush fence" (kuromoji-gaki), the natural color and texture of these exquisite bamboo fences could complement any landscape. Whether you plan to use bamboo to bring privacy to your yard, Zen to your garden, or are just seeking an environmentally friendly alternative to chain-link or wood; the simple beauty of these Japanese bamboo fences is sure to inspire.

[Building with Bamboo](#) - Gernot Minke 2016-06-06

Although traditionally a building material of the warmer climate zones, bamboo is becoming increasingly popular amongst architects in the northern hemisphere; bamboo has several advantages – it is very stable, of low weight, and highly elastic, in addition to being readily available as well as renewable. The applications of bamboo in architecture have become significantly wider and diversified, so that today, even structures with large spans – such as bridges – are built with this material. The new and revised second edition of this manual provides a practical, systematic overview of the numerous potential applications and processing methods of this renewable material. The comprehensive presentation of groundbreaking bamboo buildings has been updated with more recent projects.

GUADUA: BAMBOO ARCHITECTURE AND DESIGN. - MARCELO VILLEGAS 2002

Co-Building with Bamboo - Munir Vahanvati 2015-09-12

[Bamboo in Architecture and Design](#) - Àlex Sánchez Vidiella 2011

Building with Bamboo - Gernot Minke 2022-12-05

Traditionally a building material of the warmer climate zones, bamboo is becoming increasingly popular amongst architects in the northern hemisphere; bamboo has several advantages - it is very stable, of low weight, and highly elastic, in addition to being readily available as well as renewable. The applications of bamboo in architecture have diversified considerably, so that today, even structures with large spans - such as bridges - are built with this material. Renowned universities such as the ETH Zurich or the SUTD in Singapore have conducted research on engineered bamboo which will further expand its use. The third edition of this manual provides a systematic overview of the applications and processing methods of this renewable material. Recent inspiring bamboo buildings have been added.

How to Build with Bamboo - 2004

Presenting some of the craft possibilities afforded by bamboo, the author

outlines twenty projects that can be completed with this "green gold," including a plant holder, porch swing, candle holder, picture frame, privacy panel, lampshade, luggage rack, and much more. Original.

Modern Engineered Bamboo Structures - Y Xiao 2019-09-25

Fast-growing and local to some of the poorest communities in the tropics and subtropics, bamboo holds huge potential for climate change mitigation, innovative construction and job creation, but the material is rarely used for more than simple construction and household use. Modern Engineered Bamboo Structures collects the papers presented at the third International Conference on Modern Bamboo Structures (ICBS2018, Beijing, China, 25-27 June 2018). The overarching theme of the book is 'Enhancing Cooperation for Green Development through Bamboo's Contribution to the Sustainable Development Goals'. The contributions focus on how to realize bamboo's huge potential in a number of areas: sustainable commodity production, disaster-resilient construction, poverty alleviation, climate change mitigation and adaptation, land restoration and biodiversity protection. Modern Engineered Bamboo Structures recognizes bamboo's various benefits, and aims at ministers, policymakers and representatives from research institutes, development organizations, NGOs or UN bodies and the private sector.

Building with Bamboo - Gernot Minke 2012-12-13

Traditionally a building material of hot climate zones in Asia and Latin America, bamboo is increasingly discovered by architects of the Northern hemisphere as well. It is lightweight, highly elastic and ductile, and in addition offers qualities especially in demand in an era of limited resources, renewability and abundant availability. Architects and engineers have significantly widened the applications of bamboo in recent years and today even wide-span bridges can be built from it. Impressed with its technical and aesthetic possibilities, European, Japanese and North American architects have adopted bamboo for a variety of construction tasks, ranging from exclusive private residences to experimental pavilions, and from airy canopies to schools or museums. The book provides a detailed manual for bamboo constructions and presents a broad selection of built examples, among them the spectacular

bamboo pavilions of the 2010 Shanghai World Exposition, a parking garage in Leipzig, Germany, the Nomadic Museum in Mexico City and Richard Rogers' Terminal 4 at Madrid Airport.

Engineered Bamboo Structures - Yan Xiao 2022

"Bamboo is in the spotlight as a potential building material in the current pursuit of a CO2-neutral society, due to its rapid maturation and excellent mechanical properties. Despite the growing interest in bamboo in academia and society, there is a lack of systematic understanding of the fabrication, design and construction using bamboo as a modern industrial material. This is the first book to describe a new category of structural systems constructed with engineered bamboo. It gives the definition of engineered bamboo (GluBam), in an analogy with steel structure and wood structure. Structural systems and components have been designed using glubam. Then industrialized production processes of glubam are given. Based on the state-of-the-art research, design guidelines are first developed, in a comparable and parallel approach to the existing composite wood structures. The book also shows bamboo structures in the context of sustainable development, including the benefits of using bamboo as an alternative or replacement for wood, for developing countries, many of which are faced with the lack or destruction of forest resources. Yan Xiao is a distinguished Professor of Civil Engineering and Director of Energy, Environment and Sustainable Systems Sciences Department at the Zhejiang University, University of Illinois Joint Institute (ZJUI), and Professor at the Sonny Astani Department of Civil Engineering, University of Southern California. His recent research and industrial development efforts focus on modern bamboo structures with the goal of promoting carbon neutrality and sustainability. He has many patents to his name, forming the basis of the award-winning technology GluBam (Glued Laminated Bamboo)"--

Bamboo Architecture & Design - Chris van Uffelen 2014-01-07

"Bamboo has been used as building material for many centuries in all regions in which it grows, especially in Asia, Africa and South America. Today it is gaining in popularity also among Western architects and engineers due to its reputation of a quickly replenishing and therefore

sustainable raw material. In addition, its tensile as well as compressive strength, which can compete with those of steel, stone and concrete, make bamboo a very desirable construction material. The range extends from traditional building styles and their modern interpretation to the combination of bamboo with other materials. Frequently, beyond its use for purely construction purposes it also serves as a primary design element. This volume presents contemporary projects that show the impressive versatility of its usage"--Provided by publisher.

Building with Bamboo - Jules J. A. Janssen 2003

This revised handbook brings together the practical experiences of engineers in the field and of research programs testing bamboo. The author shows how bamboo can be harvested, seasoned and jointed to form walls, doors and windows, roofs, floors, ceilings, roof trusses and bridges, and how to weave bamboo.

The Future of Making - Tom Wujec 2017

Prepare yourself: How things are made is changing. The digital and physical are uniting, from innovative methods to sense and understand our world to machines that learn and design in ways no human ever could; from 3D printing to materials with properties that literally stretch possibility; from objects that evolve to systems that police themselves. The results will radically change our world--and ourselves. The Future of Making illustrates these transformations, showcasing stories and images of people and ideas at the forefront of this radical wave of innovation. Designers, architects, builders, thought leaders--creators of all kinds--have contributed to this look at the materials, connections, and inventions that will define tomorrow. But this book doesn't just catalog the future; it lays down guidelines to follow, new rules for how things are created, that make it the ultimate handbook for anyone who wants to embrace the true future of making.

The New Farm - Daniel P. Gregory 2020-05-12

Recent generations of farmers have reinvented the family farm and its traditions, embracing organic practices and sustainability and, along with them, a bold new use of modern architecture. The New Farm profiles sixteen contemporary farms around the globe, accompanied by plans and

colorful images that highlight the connections among family, food, design, terrain, and heritage.

Bamboo Style - Gale Beth Goldberg 2004-09-15

Goldberg reveals how to creatively bring bamboo home, teaching readers how to live with it indoors and outdoors--even how to grow their own bamboo. Her book includes bamboo projects, from a simple ladle to a more complex pergola for the garden. 150 color photos. Copyright © Libri GmbH. All rights reserved.

The Anatomy of Bamboo Culms - Walter Liese 1998

Given its unrivalled position in terms of diversity, distribution and uses, coupled with the vital role it plays in the rural economies of several countries around the world, bamboo has emerged in recent years as potentially the most important non-wood forest resource to replace wood in construction and other uses. Concomitantly, the interest being shown in this invaluable natural resource since the 1980s has resulted in the accumulation of a considerable body of information through research on various aspects of bamboos, including the anatomy of the bamboo culm. There is, however, no comprehensive publication available on the anatomy of bamboo culm, with the available literature being fragmented, scattered and inadequate. This landmark monograph by renowned wood biologist, forestry expert and bamboo specialist, Professor Walter Liese, whose innovative work on the study of anatomical structure using advanced microscopy and other techniques has won him wide international acclaim, fulfils the need for a comprehensive overview of current knowledge on this subject. It is the first attempt to synthesize information from studies on this subject, many of which have been contributed by Professor Liese, spread over the past four decades. By identifying gaps in the current anatomical knowledge base of bamboo culm, it is expected to stimulate further research and to act as a prime mover for knowledge generation in the key areas of bamboo anatomy, growth and taxonomy.

Booming Bamboo - Pablo van der Lugt 2017-12

'Booming Bamboo' provides a comprehensive overview of the enormous potential of this sustainable resource. Not only for architecture and design

but also for a multitude of other applications. After covering the "bamboo basics" (growth, properties, cultural history, industrialisation), the first part of the book introduces the many benefits of bamboo as a fast-

growing, renewable resource. The second part presents the various ways in which bamboo can be transformed into many different exciting materials and fabrics.