

Bamboo From Green Design To Sustainable Design 1st Edition

An accessible, climate-diverse guide that transforms readers from sustainable design novices to whole-solution problem solvers. Sustainable Design Basics is a student-friendly introduction to a holistic and integral view of sustainable design. Comprehensive in scope, this textbook presents basic technical information, sustainability strategies, and a practical, step-by-step approach for sustainable building projects. Clear and relatable chapters illustrate how to identify the factors that reduce energy use, solve specific sustainable design problems, develop holistic design solutions, and address the social and cultural aspects of sustainable design. Requiring no prior knowledge of the subject, the text's easy-to-follow methodology leads readers through the fundamental sustainable design principles for the built environment. Sustainably-constructed and maintained buildings protect the health and improve the productivity of their occupants, as well as help to restore the global ecosystem. The authors, leading practitioners and educators in sustainable design, have created a resource that provides a solid introduction to broad level sustainability thinking that students can take forward into their professional practice. Topics include space planning for sustainable design, integrative and collaborative design, standards and rating systems, real-world strategies to conserve energy and resources through leveraging renewable natural resources and innovative construction techniques and their impact on our environment. Usable and useful both in and beyond the classroom, this book: Covers building location strategies, building envelopes and structures, integration of passive and active systems, green materials, and project presentation Examines cultural factors, social equity, ecological systems, and aesthetics Provides diverse student exercises that vary by climate, geography, setting, perspective, and typology Features a companion website containing videos for each sustainable strategy, matrices, templates, Sketch-Up and AutoCAD files, PowerPoint slides, and extensive instructor resources Sustainable Design Basics is an important resource aimed at undergraduate architecture and interior design students, or first-year graduate students, as well as design professionals wishing to integrate sustainable design knowledge and techniques into their practice.

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.

This book consists of peer-reviewed papers, presented at the International Conference on Sustainable Design and Manufacturing (SDM 2021). Leading-edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies and at the same time improve its sustainability by reducing its environmental impact. Relevant themes and topics include sustainable design, innovation and services; sustainable manufacturing processes and technology; sustainable manufacturing systems and enterprises; and decision support for sustainability. Application areas are wide and varied. The book will provide an excellent overview of the latest developments in the sustainable design and manufacturing area.

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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. A comprehensive introduction explores all aspects that architects working with bamboo will need to consider. Bamboo has traditionally been used in many cultures around the world, and its influence is spreading. Collected here are some of the most beautiful, creative and cutting edge bamboo projects of recent years, accompanied by photos, plans and inspirations.

This book explores the intersection of craft, design and sustainability in the developing world. It argues that most sustainable design approaches and efforts fall short of implementing holistic sustainability, and in order to reach this goal, design must be underpinned by alternatives to the mainstream, technology-intensive, industrial design paradigm. Renewable materials such as bamboo, cork and hemp – which are abundantly available in the developing world – have the potential to be a viable resource base for sustainable development. Current sustainable design initiatives and approaches already recontextualize these materials using industrial techniques and technologies. However, these efforts fall short of impacting holistic sustainability and tend to focus on the ecological aspect. This book offers the development of one alternative to design for holistic sustainability, called the Rhizome Approach, which draws on existing sustainability praxis and craft. Holistic Sustainability Through Craft-Design Collaboration includes customizable tools which aim to empower designers to guide and evaluate their own designs. Through these tools, and the Rhizome Approach in general, the book aims to enable designers, and students of design, to move beyond green and sustainable design, to holistic sustainability design.

This volume represents the proceedings of the 2014 3rd International Conference on Innovation, Communication and Engineering (ICICE 2014). This conference was held in Guiyang, Guizhou, P.R. China, October 17-22, 2014. The conference provided a unified communication platform for researchers in a wide range of fields from information technology,

Designers provide creative solutions for user problems and identify the needs of users in a given environment. However, it is often

difficult to understand the social design of a product or service. *Practice and Progress in Social Design and Sustainability* is a critical scholarly resource that provides groundbreaking research on social contributions to design. Featuring coverage on a broad range of topics such as rural sustainability, ecological farmhouse designs, and community public spaces, this book is geared towards architects, designers, program planners, entrepreneurs, and engineers seeking information about design for resolving social issues.

Indoor residential environments have a direct influence on human health, both in developed and developing countries. Significant levels of indoor pollution can make housing unsafe and can negatively impact on human health. Housing, therefore, is a key health factor for people all over the world, and various parameters such as air quality, ventilation, hygrothermal comfort, lighting, physical environment, building efficiency, and others can contribute to healthy architecture and the conditions that can result from the poor application of these parameters. *Health and Well-Being Considerations in the Design of Indoor Environments* addresses issues concerning indoor environmental quality (IEQ), including air quality and ventilation, access to daylight and views, acoustic conditions, and control over lighting and thermal comfort, as well as the impact that this environment can have on human health and mental well-being. The book also investigates the functional aspects of interior design such as whether the layout provides easy access to tools and sufficient space for occupants. It also considers energy demand and building energy losses due to such issues as air renovations and enclosure infiltrations. Covering topics such as sustainable design, pollution, building materials, and lighting, this book is an effective resource for students, professors, academicians, researchers, architects, designers, planners, engineers, interior designers, building managers, construction companies, and other industry professionals looking to increase building occupant satisfaction by considering all aspects of IEQ.

Sustainable Design for Interior Environments, 2nd Edition, builds on the first edition's premise that the interior design profession has a social and moral responsibility to protect the health, safety, and welfare of people and the environment. The text equips professors, students, and practitioners to design sustainable interiors by addressing LEED certification, environmental concerns, ecosystems, ethics, values, worldviews, and the ways in which science and technology can be used to address environmental challenges. Through content, organization, and pedagogical features, the book integrates complex sustainability topics directly into the design process, thereby enabling readers to apply the concepts of sustainability with the same ease as they do the elements and principles of design.

'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.

Today modern materials science is a vibrant, emerging scientific discipline at the forefront of physics, chemistry, engineering, biology and medicine, and is becoming increasingly international in scope as demonstrated by emerging international and intercontinental collaborations and exchanges. The overall purpose of this book is to provide timely and in-depth coverage of selected advanced topics in materials science. Divided into five sections, this book provides the latest research developments in many aspects of materials science. This book is of interest to both fundamental research and also to practicing scientists and will prove invaluable to all chemical engineers, industrial chemists and students in industry and academia.

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.

Bamboo is a versatile and sustainable building material. It is lightweight, highly elastic and ductile, and in addition possesses qualities especially in demand in an era of limited resources: renewability and abundant availability. This book provides a detailed manual for bamboo constructions and presents a selection of built examples.

The rise of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product's lifecycle. Sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century, in the move towards the next generation of manufacturing and processing technologies. The manu

At last, there's an authoritative guide to help interior designers apply green- building and sustainability applications to their environments. *Sustainable Interior Design* expertly introduces the principles of environmentally responsible design for interior environments. This useful reference provides beginning designers and experienced professionals alike with a comprehensive survey that covers everything from theoretical approaches to current practices. It helps designers understand the environmentally responsible approach and make design decisions that are ethical and do not harm the world's environment.

This book of conference proceedings contains papers presented at the Art and Design International Conference (AnDIC 2016). It examines the impact of Cyberology, also known as Internet Science, on the world of art and design. It looks at how the rapid growth of Cyberology and the creation of various applications and devices have influenced human relationships. The book discusses the impact of Cyberology on the behaviour, attitudes and perceptions of users, including the way they work and communicate. With a strong focus on how the Cyberology world influences and changes the methods and works of artists, this book features topics that are relevant to four key players - artists, intermediaries, policy makers, and the audience - in a cultural system, especially in the world of art and design. It examines the development, problems and issues of traditional cultural values, identity and new trends in contemporary art. Most importantly, the book attempts to discuss the past, present and future of art and design whilst looking at some underlying issues that need to be addressed collectively.

This book highlights various designs for urban green spaces and their functions. It provides an interesting meeting point between Asian, European and North America specialists (researchers, planners, landscape architects) studying urban biodiversity; urban biodiversity and green space; relations between people and biodiversity. The most important feature of this book is the unique point of view from each contributor towards "the relationship between nature and people in urban areas", in the context of the ecosystem and biodiversity in urban areas and how to manage them. All chapters explore and consider the relationship between humans and nature in cities, a subject which is taking on increasing importance as new cities are conceptualized and planned. These discussion and examples would be useful for urban ecology researchers, biologists, city planners, government staff working in city planning, architects, landscape architects, and university instructors. This book can also be used as a textbook for undergraduate and postgraduate city planning, architecture or landscape

architecture courses.

International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

"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.

"Green gold" or "Poor Man's Timber" are commonly used terms for bamboo that is a valuable and renewable resource of the world, and has always been an elemental part of human beings in terms of social and economic value. Bamboo is considered a multipurpose plant and has a prolonged history as an adaptable and extensively used renewable resource in conventional and commercial applications. Therefore, the annual demands for bamboos have already out-crossed the annual yields across the world. And the current scenario has forced scientists to pay more attention to the utilization of biotechnological tools for better understanding and improving bamboos. The book provides an overview of the different biotechnological approaches to advance bamboo research and better utilization of bamboo resources for human beings. Various applications of biological techniques in relation to bamboo have been discussed in details, for example, plant tissue culture techniques, somatic embryogenesis, germplasm conservation techniques, use of the molecular markers, transcriptomics, polymorphism, and phylogenetic relations in bamboo. It also addresses the novel industrial applications of bamboo in structural, food, and pharmaceuticals along with traditional uses. The aggregated information in this book demonstrates the way for the improved and sustainable practice of bamboos to fulfill the future needs of the world. This book is intended for use in both the industry and academia

The Second Edition of Sustainable Residential Interiors addresses cutting edge processes, strategies, and principles as well as details for in-depth product vetting criteria. Award-winning, leading interior designer Annette Stelmack shares her expertise from the perspective of LEED Building Design & Construction projects, healthy interiors, and chemical sensitivities, addressing principles, strategies, and solutions for design practitioners. A comprehensive update of the current state of the sustainable interior design industry is provided, including present and upcoming industry transformations, thought-leading principles, strategies and practices for project implementation, and fine points and resources for in-depth product vetting to support high-performing, healthy interiors. Sustainable Residential Interiors takes readers through an integrated design process, demonstrating relevant principles and practices that apply to essentially any interiors project toward creating an environment that is healthy, high-performing, functional, sustainable, and beautiful. In doing so, it: Promotes critical thinking about health and environmental issues in the building industry Features checklists and current resources, providing a "hands on" practical approach Addresses in-depth, applicable third party certifications and details on relevant building rating systems Provides in-depth strategies and criteria for fixed interior finishes, fixtures, equipment and furnishings Demonstrates successful, relevant, diverse and inspiring case studies Delivers comprehensive tools and resources for researching and vetting products' composition and chemical make-up. Evaluates all aspects of a

building's interior to identify and implement methods that: save energy and water; reduce Co2 emissions and waste; improve indoor air quality free of toxins; and are responsive to environmental impacts Encourages forward-thinking by featuring inspirational statements from mentors, peers, and industry leaders Urges interior designers to commit to designing safe, healthy environments that are integral to a professional code of ethics, which ensure the delivery of positive outcomes for the client and any building's future occupants

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.

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.

Explains how to use this beautiful, versatile, and sustainable material to create an array of items for the home or garden, offering detailed how-to instructions for more than thirty eco-friendly projects that include a trellis for climbing plants, a porch swing, an outdoor shower stall, and a curved garden handrail. Original.

Written by an educator with close to 40 years of experience in developing and teaching design and manufacturing courses at the graduate and undergraduate levels, Green Design and Manufacturing for Sustainability integrates green design and manufacturing within the framework of sustainability, emphasizing cost, recyclables, and reuse. It includes th

Written for students and practitioners in the fields of architecture and interior design, our new Architecture Brief Sustainable Design provides a concise overview of all the techniques available for reducing the energy footprint of structures and spaces. With clear, simple language and a practical "can-do" approach, author David Bergman covers everything from the profession's ethical responsibility, to design structures and spaces that sustain our natural resources, to specific considerations such as rainwater harvesting, graywater recycling, passive heating techniques, solar orientation, green roofs, wind energy, daylighting, indoor air quality, material evaluation and specification, and how to work with green building certification programs.

Book & CD-ROM. An active real estate market has turned interior design into a boom industry in recent years. Interior designers owning their own firms have a median income of \$75,000. Tens of thousands of homes are for sale in the United States today, and many need the help of an interior designer to be sold. Interior designers create the spaces where we work, play, and live every day. Whether it is a private residence, corporate office, retail store, or a zany restaurant, interior designers use their creativity, as well as their knowledge of colour principles, architecture, and design, to make it work and look amazing. As a result, they are well compensated for the work. This guide provides readers with an understanding of the basic concepts of starting their own interior design business. This book is a comprehensive and detailed study of the business side of interior design. You will learn everything from the initial start-up decisions to working with clients. If you are investigating opportunities in this type of business, you should begin by reading this book. You can build a highly successful business

using your talent and understanding of colour and architectural features, while providing a much needed service to home owners. If you enjoy working with people and have that creative knack, this may be the perfect business for you. Keep in mind that this business looks easy but, as with any business, looks can be deceiving. This complete manual will arm you with everything you need, including sample business forms; contracts; worksheets and checklists for planning, opening, and running day-to-day operations; setting up your office; and dozens of other valuable, timesaving tools of the trade that no business should be without. While providing detailed instruction and examples, the author leads you through every detail that will bring success. You will learn how to draw up a winning business plan (the companion CD-ROM has the actual business plan you can use in Microsoft Word® and about choosing a name; getting Started; the who, what, when, why, and how of interior design; equipment; selling your other services to your present customers; home staging and interior redesign; how to build a portfolio; how to get your first clients; how to attract and bid on new jobs; contracts and billing procedures; advertising; insurance; legal matters; basic cost control systems; market research; getting new clients; tax laws; zoning laws; pricing; leads; sales and marketing techniques; and pricing formulas. You will learn how to set up computer systems to save time and money, how to hire and keep a qualified professional staff if necessary, how to meet IRS requirements, how to manage and train employees, how to generate high profile public relations and publicity, and how to implement low cost internal marketing ideas. You will learn how to build your business by using low and no cost ways to satisfy customers, as well as increase sales and have customers refer others to you. You will learn the basics of accounting and bookkeeping procedures, auditing, successful budgeting, and profit planning development, as well as thousands of great tips and useful guidelines. This manual delivers innovative ways to streamline your business. Learn new ways to make your operation run smoother and increase performance. Successful entrepreneurs will appreciate this valuable resource and reference it in their daily activities as a source of ready-to-use forms, Web sites, operating and cost cutting ideas, and mathematical formulas that can easily be applied to their operations. The companion CD-ROM contains all the forms found in the book, as well as a sample business plan you can adapt for your own use.

"An essential introduction to sustainable domestic design." —Dwell magazine How to Achieve Style and Sustainability Green Interior Design is the most comprehensive guide to sustainable building, designing, and decorating on the market. This beautifully illustrated guide covers every detail of your home—from the drywall to the finial on the curtain rod—and how to find the most environmentally friendly versions of products and décor. This second edition of Green Interior Design is meant as much for the budget DIYer as it is for the luxury homebuilders looking to dip their toes into sustainability. Sprinkled among the chapters, readers will find: Digestible how-tos for quick updates Fun DIY projects Quick tips on repurposing and upcycling Helpful resources and buying guides Inspiring home tours Unconventional advice from designers (e.g., "Don't buy anything!") We hope readers carry this reference guide with them as they decorate apartments, furnish their first properties, and build their dream homes from the ground up. The second edition's interactive structure allows you, the reader, to choose your own adventure: go into the weeds and get granular with purchasing decisions for your home, or take a more generalized approach to your green design project. Whichever path you choose, know that it's more important than ever before to act sustainably. "Going green" is more than just a trend: It's a global economic and social necessity.

In this timely book, author Marcus Fairs helps readers understand the shift of green design from marginal to mainstream by featuring products and buildings that address immediate concerns about global warming and environmental degradation. Through vast architectural projects to modest one-off pieces of salvaged furniture, the book shows how the design world is responding to the environmental challenges of this century. Author Fairs demonstrates key developments in sustainable design as seen in lighting, houseware, furniture, textiles,

products, interiors, architecture, and transportation, including the innovative use of fuel-cell technologies and ultra-lightweight materials. The book shows how the introduction of eco-friendly materials is changing the products around us and charts the rise of low-energy lighting sources and their impact on lighting design. Emerging trends in green design are also covered, from recycling (reusing existing objects to create new products) to ethical sourcing (ensuring products come from sustainable sources). By presenting existing green innovations as well as visionary projects, Green Design paints a bright future in which technology and ethics merge for the benefit of people and the planet. This book is a guide to a sustainable design process that moves from theory, to site and energy use, to building systems, and finally to evaluation and case studies, so you can integrate design and technology for effective sustainable building. Kuppaswamy Iyengar shows you how to get it right the first time, use free energy systems, and utilise technologies that minimize fossil fuel use. Each chapter has a sustainable design overview, technical details and strategies marked by clear sections, a summary, and further resources. Heavily illustrated with charts, tables, drawings, photographs, and case studies, the book shows technologies and concepts integrated into cohesive project types, from small and large office spaces to single and multiuse residences, hospitals, schools, restaurants, and warehouses to demonstrate implementing your designs to meet clients' needs now and for the future. Includes an overview of alternate assessment and evaluation systems such as BREEAM, CASBEE, GBTool, Green Globes alongside LEED, ECOTECT, energy 10, HEED and eQuest simulation programs. The guide reveals the importance of the building envelope—walls, superstructure, insulation, windows, floors, roofs, and building materials—on the environmental impact of a building, and has a section on site systems examining site selection, landscape design, thermal impact, and building placement.

How do we design in a climate emergency? A new social and ecological prerogative demands appropriate material choices, a re-invention of construction and evolving building programmes that look at lifecycle, embodied energy and energy use. Highly illustrated with practical information and simple explanations for design ideas, this book is the perfect introduction to sustainable design for architecture students. It presents key concepts in relation to the embodied energy of construction, material properties and environmental performance of buildings in an accessible way. In explaining the principles and technologies by which we heat, cool, moderate and mitigate, it demystifies environmental design as a technical exercise and enables students to create sustainable buildings with impact. Keep this sourcebook with you. Features: Amphibious House (Baca Architects), Ashen Cabin (HANNAH), Bunhill 2 Energy Centre (Ramboll, Cullinan Studio, McGurk Architects and Colloide), Cork House (Matthew Barnett Howland, Oliver Wilton and Dido Milne), Dymaxion House (Richard Buckminster Fuller), Eastgate Centre (Mick Pearce), Neuron Pod (Will Alsop – aLL Design and AKT II), Quik House (Adam Kalkin) and Tension Pavilion (StructureMode and Weber Industries). Covers: Acoustics, bamboo construction, biopolymer, bioremediation, CLT, climatic envelope, computational fluid dynamics, earthen architecture, fabric formwork, hempcrete, insulation, mycelium biofabrication, paper construction, passive solar heating, pneumatic structures, solar geometry, tensegrity structures, thermal mass and more.

BambooFrom Green Design to Sustainable DesignBambooFrom Green Design to Sustainable DesignBuilding with BambooBirkhauser Scientific Principles to Guide Sustainable Design Decisions From thermodynamics to fluid dynamics to computational chemistry, this book sets forth the scientific principles underlying the need for sustainable design, explaining not just the "hows" of sustainable design and green engineering, but also the "whys." Moreover, it provides readers with the scientific principles needed to guide their own sustainable design decisions. Throughout the book, the authors draw from their experience in architecture, civil engineering, environmental engineering, planning, and public policy in order to build an understanding of the interdisciplinary nature of sustainable design. Written to enable readers to

take a more scientific approach to sustainable design, the book offers many practical features, including: Case studies presenting the authors' firsthand accounts of actual green projects Lessons learned from Duke University's Smart House Program that demonstrate the concepts and techniques discussed in the book Exercises that encourage readers to use their newfound knowledge to solve green design problems Figures, tables, and sidebars illustrating key concepts and summarizing important points For architects, designers, and engineers, this book enables them to not only implement green design methods, but also to choose these methods based on science. With its many examples, case studies, and exercises, the book is also an ideal textbook for students in civil and environmental engineering, construction, and architectural engineering.

A guide to home building, renovation, and remodeling for environmentally conscientious readers or home owners looking to promote energy efficiency explains how to reduce one's personal carbon footprint, lower costs, and promote an eco-friendly lifestyle while creating one's dream home. Original.

Bamboo isn't just for Asia anymore! Author Gale Goldberg shows us how to creatively bring bamboo home, teaching us how to live with it indoors and outdoors--even how to grow your own bamboo. Every room in your home can be decorated or accented with beautiful, sensual bamboo furniture, flooring, wall covering, ceiling material and accessories. Bamboo is highly versatile, requiring little care yet having a visual appeal that can change a mundane setting into an exotic oasis. The resource directory includes connections to designers, manufacturers, artists, suppliers and bamboo organizations. For do-it-yourselfers, the bamboo projects in this book--from a simple ladle to a more complex pergola for the garden--will inspire you to create other designs of your own.

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.

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

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