

# The Book Of Bamboo A Comprehensive Guide To This Remarkable Plant Its Uses And Its History

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a catalog of the great variety of uses to which the lightweight yet sturdy plant has been put is accompanied by a guide to its cultivation harvesting folklore and history

this book presents the state of the art knowledge on bamboo it starts with an introduction to the plant s biology its taxonomy habitat morphology and growth the cultivation of bamboo is discussed in terms of silviculture pests and diseases and harvesting techniques the book is completed by a comprehensive presentation of the properties of bamboo its utilization and its preservation bamboo is the fastest growing and most versatile plant on earth for centuries it has played an indispensable part in the daily life of millions of people in tropical countries in recent decades it has gained increasing importance as a substitute for

timber the book was developed as a reference text for scientists professionals and graduate students with a strong interest in this unique plant

whatever your climate there is a suitable species of bamboo for your garden more than 300 bamboos are described from tropical and subtropical species to hardy species with information on size native range and landscape use

the possibilities of bamboos as design elements are stressed in this encyclopedia of species

a natural and cultural history of this important and useful plant we may think of bamboo only as a snack for cuddly panda bears but we use the plant as food clothing paper fabric and shelter drawing on a vast array of sources this book builds a complete picture of bamboo in both history and our modern world susanne lucas shows how bamboo has always met the physical and spiritual requirements of humanity while at the same time being exploited by people everywhere lucas describes how bamboo's special characteristics such as its ability to grow quickly and thus be an easily replaced resource offers potential solutions to modern ecological dilemmas she explores the vital role bamboo plays in the survival of many animals and ecosystems as well as its use for some of the earliest books ever written as the framework for houses and for musical instruments as modern research and technologies advance she explains bamboo use has increased dramatically it can now be found in the filaments of light bulbs airplanes the reinforcements of concrete and even bicycles filled with illustrations bamboo is an interesting new take on a plant that is both very old and very new

bamboo is an important non wood forest product in india bamboo which is traditionally considered the poor man wood and labelled as green gold is being considered a major export item by the centre for the global market bamboo is perfectly suited to agro forestry as a woody grass bamboo has been exploited from natural stands from time immemorial bamboo is increasingly being cultivated like other agricultural crops that is in professionally managed plantations the growth of industries utilizing bamboo requires the sustainable cultivation and management of bamboo resources india is blessed with very rich bamboo resources bamboo can play an important role in raising forest cover and a major role in stabilization of the environmental problems the annual yield in tonnes ha depends on the environment as well as the species it is estimated that almost 25 of the biomass in the tropics and 20 in the subtropics come from bamboo the cultivation of bamboo as a wood substitute helps to offset depletion of the rain forest its rapid growth ensures an effective reconstruction of damaged eco systems bamboo is one of many sustainable non wood resources that can generate income for a large forest dependent rural population and it needs to take

further steps to realize its full potential in india the north east has the largest stock and diversity of bamboos though india has the largest area under bamboo the yield per hectare is very low compared to other countries bamboo plantation rising should be encouraged promoted due to their high value productivity uniformity of crop choice of species linked to peoples need and industrial need bamboo forest constitutes about 13 of the total forest area of the country about 50 of bamboo produced in india grows in north eastern region and west bengal india has the second largest bamboo reserves in the world after china this book basically deals with bamboos in india the bamboo plant harvesting cultivating silviculture and management collection of material and preparation of cuttings treatment for root induction in cuttings preparation of nursery and planting nursery management transplanting pattern of biomass allocation in growing bambusa bamboos biochemical characteristics of plantation bamboo leaf bambusa bambos with reference to organic productivity economic analysis bamboo plantation problems and prospects need for bamboo plantation consumption pattern of bamboos in india working and finishing qualities of bamboo bamboos for structural use pipe water supply system and drainage bamboo furniture weaving industry etc this book provides a complete detail on bamboo plantation and its utilization this book contains chapters like types of bamboo in india taxonomy cultivation harvesting growth management bamboo utilization bamboo products and many more this book will be very helpful to all its readers environmentalists agronomists entrepreneurs industrialists or anyone with a special interest in bamboo cultivation tags bamboo applications bamboo as a money making industry bamboo based small scale industries projects bamboo business ideas bamboo business in india bamboo business opportunities bamboo business plan bamboo cultivation potential and prospects bamboo cultivation bamboo farming in india bamboo farming information guide bamboo for pulp and paper bamboo furniture bamboo harvesting and growing bamboo harvesting bamboo manufacturing process bamboo manufacturing bamboo plantation a profitable enterprise bamboo plantation investment in india bamboo plantation technique bamboo plantation bamboo processing bamboo based profitable projects bamboo processing industry in india bamboo processing projects bamboo production business bamboo products and furnishing products bamboo products business plan bamboo products manufacturing process bamboo products processing bamboo products bamboo properties bamboo pulp manufacturing process bamboo pulp bamboo pulp making process bamboo resources and their utilization bamboo shoots bamboo small business manufacturing bamboo technology bamboo used for paper manufacture bamboo utilization bamboo properties and utilization best small and cottage scale industries business guidance for bamboo processing business plan for a startup business business start up growing bamboo harvesting bamboo how bamboo is processed how paper is made from bamboo how to grow bamboo for profit how to plant bamboo how to start a bamboo manufacturing business how to start a bamboo production business how to start a bamboo production how to start a successful bamboo production business how to start bamboo plantation how to start bamboo

processing industry in india indian bamboo products industrial utilization on bamboo insect pests of bamboos in india modern small and cottage scale industries most profitable bamboo processing business ideas new small scale ideas in bamboo processing industry paper manufacturing plant with pulp from bamboo paper production process from bamboo plan to promote bamboo products business profitable bamboo plantation profitable small and cottage scale industries profitable small scale bamboo manufacturing pulp and paper manufacture setting up and opening your bamboo production business setting up of bamboo production units small scale bamboo processing projects small scale bamboo production line small scale commercial bamboo products making special characteristics and uses of bamboo start a bamboo farm start a bamboo farming business start bamboo plantation starting a bamboo business starting a bamboo farm business plan starting a bamboo processing business start up business plan for bamboo production startup ideas startup project for bamboo production uses of bamboo utilization of bamboo when and how to harvest bamboo

farming bamboo tells farmers and gardeners in the pacific northwest what they need to know to raise bamboo as a farm crop the bamboo is farmed in order to sell bamboo shoots for food and poles for wood the botany of bamboo is described for a background to making decisions about caring for the bamboo an encyclopedia describes 27 species of the genus phyllostachys

excerpt from bamboo work the stems of bamboo plants are very strong but hollow with the exception of partitions at the nodes and to these two qualities is due the great popularity and usefulness of bamboo canes which to the chinese japanese indo chinese and west indians are essentials to everyday life and have been so for many centuries to the european they have been known popularly for only a few years bamboo stems resemble the stems of all grasses in being jointed they are hard light as regards weight elastic and as has been said hollow containing only a light spongy pith and the partitions at the nodes these partitions increasing the strength of the stems greatly most bamboos are of approximate circular section but one species is square this when three years old has a sectional area of one square inch about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at [forgottenbooks.com](http://forgottenbooks.com) this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

excerpt from the bamboo garden messrs riviere s beautifully illustrated book les bambous and the late general munro s

monograph published in the transactions of the linnean society 15th november 1866 are respectively the french and english classics upon the subject i have not hesitated to draw largely upon such rich storehouses of knowledge but since the publication of those works many new species have been discovered and they are therefore not up to date otherwise there would be no reason for any further book treating of bamboos about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

this book presents over 40 cases of bamboo development across 22 major bamboo industry countries and explores the knowledge gained from their successes and failures it synthesises experiences and exchanges with country experts from international training courses and consultations study tours and seminars each case includes observations and summaries of discussions related to the development of bamboo based industries in a healthy sustainable way and the facilitation of strategic and balanced development of bamboo in different global regions industrial and artisanal bamboo growing and processing is expanding worldwide and this book brings together key experiences to help inform future developments this book provides an analysis of bamboo plant features including strong renewability fast growing and high biomass production it also reviews important ecological functions of bamboos such as water and soil conservation carbon sink and storage and adaptation to climate change as well as addressing the diversified culture of bamboo and key issues affecting the sector highly illustrated and in full colour throughout this book is an essential resource for all those interested in bamboo from private sector investors to governmental and development agencies academic researchers and students

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

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 processes 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 a definition of engineered bamboo glulam in an analogy with steel structures and wood structures structural systems and components have been designed using glulam then industrialized production processes of glulam are described based on state of the art research design guidelines are suggested in a comparable and parallel approach to the existing guidelines for composite wood structures the book also discusses bamboo structures in the context of sustainable development including the benefits of using bamboo as an alternative or replacement for wood especially for developing countries many of which are faced with the lack or destruction of forest resources

this monograph aims at bringing out a comprehensive collection of information on bamboo varieties in south asia the main focus of this book is to address the ecological and economic significance of bamboos bamboo is a versatile group of plants capable of providing ecological economic and livelihood security to the people in the tropics especially the rural areas in different countries of south asia most of the houses are made of bamboos in the hilly areas of bangladesh bhutan nepal and india the tribal people take bamboo shoots as one of their major food items since prehistoric days with palatable shoots and grass like leaves bamboo plants have also been liked by many herbivore animals such as elephants the wild cattle indian bison and some species of deer the red panda in the himalayas and primates pigs rats and mice porcupines and squirrels are also incidental feeders on southeast asian bamboos there has been a growing awareness in recent years about the values of bamboo being an important means of economic growth and for improving the socio economic conditions of the rural poor bamboo as an industrial material can substitute wood and that to at low cost due to increasing demand and squeezing of bamboo area the plants have been overexploited and the quality and quantity of resource alarmingly getting depleted besides many new bamboo based industries have come up which also urgently require uninterrupted supply of species wise bamboo resource the south asia region has

bestowed with more than 300 bamboo species with enormous diversities at species ecological and genetical level a number of bamboo species are found common among countries of the region selected for various utilization potentials having wide range of ability to adjust environmental conditions of these countries and thus prioritized for cultivation both government and private planters in the region have started allocating funds land and other logistics to raise large scale plantation of desired bamboo species this book has been drafted to find out answers of the most pertinent queries based on the field observations on each of the bamboo species and knowledge learnt from the indigenous people living with bamboos in different parts of south east and south asian countries this monograph would be interesting and useful to bamboo professionals foresters horticulturists field level extension workers nurserymen planters industrial entrepreneurs ecologists and valuable source of reference to the relevant researchers and students in the region

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