



# Bast and other plant fibres

Edited by Robert R Franck



The Textile Institute

**WP**

# Bast And Other Plant Fibres

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## **Bast And Other Plant Fibres:**

**Bast and Other Plant Fibres** Robert R. Franck, 2005-04-07 Environmental concerns have regenerated interest in the use of natural fibers for a much wider variety of products including high tech applications such as geotextiles and composite materials for automotive and light industry use Covering minor as well as major fibers produced worldwide *Bast and Other Plant Fibers* analyzes flax hemp jute kenaf ramie sisal coir and nettle and provides an index of fiber yielding plants Each chapter examining chemical and physical structure fiber yarn and fabric production dyeing handle and wear characteristics economics and environmental health and safety issues A comprehensive set of tables makes it easy to compare the physical and chemical characteristics of different fibers *Bast and Other Plant Fibres* R R Franck, 2005-03-28 *Bast and Other Plant Fibres* a title in Woodhead Publishing's series on fibres published in association with The Textile Institute UK is the first book in over 50 years to cover the most interesting plant fibres and those with high annual production Bast fibres have many textile applications with natural fibre composites being the fastest growing due to the combination of their relatively low cost and excellent technical characteristics Following the editor's introductory chapter which includes a comprehensive set of tables comparing the physical and chemical characteristics of the fibres Chapter 2 discusses jute while Chapters 3 and 4 cover flax and hemp Subsequent chapters are devoted to ramie sisal coir and abaca Chapter 9 brings together information on minor fibres that may deserve greater interest on the part of international markets while Chapter 10 is dedicated to the use of bast and leaf fibres in composites Information is included on production and processing physical and chemical properties and on economic environmental and health and safety considerations This book is an essential reference to academics and researchers in agriculture and horticulture as well as those working in textiles apparel and industrial design and textile testing and forensic science laboratories It will also be invaluable to those working in government departments such as agriculture or trade and industry Essential discussion on chemical and physical properties of individual natural fibres Looks at environmental advantages of bast fibres over synthetic fibres First book of its kind in over 50 years *Surface Properties of Non-conventional Cellulose Fibres* Majda Sfiligoj Smole, Silvo Hribernik, Manja Kurečič, Andreja Urbanek Krajnc, Tatjana Kreže, Karin Stana Kleinschek, 2019-02-15 The authors describe how sustainable textile fibers from crops such as quinoa grass hops corn and wheat stems etc have recently begun to generate great interest The structure property relationships of such non conventional cellulose fibers are studied in this brief as are their sorption and surface properties which are of primary importance A systematic review of each fiber's properties is given the emphasis is placed on the water sorption capacity the fiber's surface potential and fibrillation properties **Developments in Yarn Spinning Technologies** Arindam Basu, 2024-10-01 *Developments in Yarn Spinning Technologies* explores the recent advancements in yarn spinning technologies focusing on improving production and embracing sustainability While ring spinning remains popular newer developments in rotor spinning and natural fibre spinning systems are covered This book also addresses challenges including

the circularity theory providing concise insights into the evolving landscape of yarn spinning technologies Ideal for professionals and researchers alike this book offers valuable perspectives on the industry s dynamic changes Focuses on recent developments in spinning uncovering the evolving techniques and technologies that are reshaping the yarn production industry Addresses key technological challenges providing practical insights into overcoming obstacles and staying ahead in the rapidly evolving field Delves into the distinct properties of yarns examining how technological innovations impact and enhance their characteristics for improved performance Explores sustainable practices with a focus on recycled fibre processing

**Biocomposites - Bio-based Fibers and Polymers from Renewable Resources** R. Arun Ramnath, Sanjay M. R., Sergey M. Gorbatyuk, Steffen Fischer, Suchart Siengchin, 2023-11-30 Biocomposites Bio based Fibres and Polymers from Renewable Resources Processing Performance Durability and Applications provides a systematic and comprehensive review of recent developments in this important area of research Chapters discuss novel techniques for processing and the characterization of biocomposites derived from renewable resources focusing on durability strength prediction aging methods and performance evaluation Future trends directions and opportunities are also addressed Readers will find an up to date summary of recent research findings that have been conducted on biocomposites making this an essential reference resource for academic and industrial researchers and anyone working in the development of innovative materials from renewable resources Provides wide coverage of processing methods mechanical performance and industrial applications Emphasizes durability assessment of natural fiber composites in different environments

**Mechanical Properties of Natural Fiber Reinforced Polymers: Emerging Research and Opportunities** Gebai, Sarah S., Hallal, Ali M., Hammoud, Mohammad S., 2018-01-30 The huge consumption of earth s natural resources and the reliance on industrial manufactured products have produced significant impacts on the environment As such new strategies must be adopted in order to support the protection and continued development of numerous natural resources Mechanical Properties of Natural Fiber Reinforced Polymers Emerging Research and Opportunities is a critical scholarly resource that examines green energy sources and material enhancements that will help to solve ecological problems Featuring coverage on a broad range of topics such as harvesting techniques origins of natural fibers and modeling for textile composites this book is geared towards engineers researchers scholars and graduate students in the fields of materials science and engineering

**Revolutionizing the Potential of Hemp and Its Products in Changing the Global Economy** Tarun Belwal, Naveen Chandra Belwal, 2022-06-25 This book provides the current status research advances challenges and opportunities of hemp products along with recommendations for future research The surge in demand is fueling a global Green Rush even in countries where a legal market for hemp products was unthinkable just a few years ago The hemp market is growing globally and its products fiber food medicine etc are overwhelmingly accepted by the customers With increasing market demand for more natural and greener products the revolutionizing potential of hemp and its products in changing economy plays a major role Moreover

considering their high demand and development of new varieties for producing raw material of need breeding tools provide an effective means of development of varieties This book aims to highlight the revolutionizing potential of hemp and its products in changing the economy current status and challenges In addition it provides the multi functional and multi industrial potential of hemp

**Pineapple Leaf Fibers** Mohammad Jawaid, Mohammad Asim, Paridah Md. Tahir, Mohammed Nasir, 2020-02-13 This book presents recent research on natural fibers extracted from pineapple leaves Covering several extraction processes properties of pineapple leaf fibers and comparisons with other natural fibers and their applications it provides up to date information on the subject of natural fibers from prominent researchers in academia and industry as well as government private research laboratories across the world The book is a comprehensive reference resource for university and college faculties professionals postdoctoral research fellows undergraduate graduate students researchers and scientists working in the areas of non forest product utilization natural fibers and biomass materials

Hemp Pierre Bouloc, 2013-09-16 Hemp production for industrial purposes continues to grow worldwide and is currently being used for many applications including house insulation paper making animal bedding fabric rope making and also as a biofuel This book brings together international experts to examine all aspects of industrial hemp production including the origins of hemp production as well as the botany and anatomy genetics and breeding quality assessment regulations and the agricultural and industrial economics of hemp production A translation of *Le Chanvre Industriel* this book has been revised and updated for an international audience and is essential reading for producers of industrial hemp industry personnel and agriculture researchers and students

**Industrial Applications of Natural Fibres** Jörg Müssig, 2010-04-15 Natural fibres are becoming increasingly popular for use in industrial applications providing sustainable solutions to support technical innovation These versatile natural based materials have applications in a wide range of industries from textiles and consumer products to the automotive and construction industries *Industrial Applications of Natural Fibres* examines the different steps of processing from natural generation fibre separation and fibre processing to the manufacturing of the final product Each step is linked to fibre properties and characterization highlighting how different fibres influence the product properties through a discussion of their chemical and structural qualities Considering the value added chain from natural generation to final product with emphasis on quality management this book reviews the current research and technical applications of natural fibres Topics covered include Introduction to the Chemistry and Biology of Natural Fibres Economic Aspects of Natural Fibres Vegetable Fibres Animal Fibres Testing and Quality Management Applications Current and Potential Industrial Application of Natural Fibres will be a valuable resource for scientists in industry and academia interested in the development of natural based materials and products It is particularly relevant for those working in chemical engineering sustainable chemistry agricultural sciences biology and materials sciences

Consumer Awareness and Textile Sustainability Subramanian Senthilkannan Muthu, 2023-11-27 This contributed volume discusses how consumer awareness of

textile sustainability can lead to a more sustainable textile supply chain From the initial purchase of a textile to its care and longevity consumer behaviors are at the core of consumption associated with the textile industry Making consumers aware of the environmental impacts of the clothing products they buy help them to choose the best alternative which has the lowest footprints and also enable them to help the entire textile sector to become sustainable In addition making them aware of environmental footprints of textile products from cradle to grave make them aware of how best they can take care of their products during use and disposal phases and how they can help to preserve the planet with their earnest efforts to reduce the environmental impacts in their boundary i e the use and disposal phases

**Industrial Crops and Uses** Bharat P. Singh, 2010 The demand for plant based industrial raw materials has increased as well as research into expanding the utility of plants for current and future uses Plants are renewable have limited or positive environmental impact and have the potential to yield a wide range of products in contrast to petroleum based materials Plants can be used in a variety of different industries and products including bioenergy industrial oil and starch fibre and dye rubber and related compounds insecticide and land rehabilitation This title offers a comprehensive coverage of each of these uses Chapters discuss the identification of plant species with desired traits their cultivation to obtain the needed raw materials methods utilized in producing different finished products current and future research in crop production and processing and the present state and future prospects for the industry Providing the first systematic review of industrial crops and their uses this book will be an important resource for students and researchers of crop science and agricultural policy makers

**The International Jute Commodity System** Chhabilendra Roul, 2009 The jute commodity system as prevalent in the Indian subcontinent is a conglomeration of paradoxes Jute was once called the golden fibre on account of its contribution to means of livelihood to millions of farmers traders manufacturers in the unorganized sector mill workers in the organized sector as well scores of people employed in the service sector relating to trading manufacturing and exports of jute and jute goods Jute industry along with textile manufacturing provided the foundation of modern manufacturing industry in India Simultaneously this industry was also the fountain head of the growth of private entrepreneurship and capital in India Most of the traditional Industrial Houses in India grew out of trading and manufacturing of jute and jute goods coal and tea On the other hand most of the farmers involved in cultivation of natural fibres like jute are small and marginal farmers Without alternative avenues of gainful employment elsewhere these millions in South Asia would be deprived of a part of their livelihood The entire commodity chain of natural fibres is characterized by low productivity low value addition high volumes and low returns The advent and discovery of mineral oil helped exploit cheap HDPE and PP polyethylene sacks which started replacing the natural fibre based packaging materials As a result the jute industry got wiped out from Europe America and the Far East Today it has survived in the Indian subcontinent and to a lesser extent in Brazil The unique feature of the volume is that it focuses on the first hand experience of the policy makers and other stakeholders in the jute commodity system who are

confronted with a dilemma of reviving a declining economic subsector At this juncture when there is need for a Commodity Development Strategy suitable to the ethos of a commodity like the jute fibre the present volumes attempts to devise such a strategy thorough analysis of the system based on authentic and up to date information The Book furnishes an erudite analysis and stock taking of the jute commodity system This analysis points out to the fact that there is a need for a holistic systemic approach to the problems being faced by this sector focusing on the economic exploitation of the whole jute plant holistic research for addressing productivity and processing efficiency in the entire commodity chain of jute and creating a network of organisations for advocacy for jute and allied fibres which would focus on repositioning the golden fibre as sustainable and eco friendly commodity with the help of green and sustainable development advocacy groups The Commodity Development Strategy highlights the need for greater effort for significant degree of product diversification which would entail significant consumption of the fibre or fabric in volume terms The volume ends with an optimistic note with ideas of inclusive development under the Millennium Development Goals and Carbon Credits Sustainable Development under the United Nations Framework Convention on Climate Change the welcome paradigm shifts in the approach to the jute sector The effort by Sh Roul is a timely one on the eve of the observance of 2009 as International Year for Natural Fibres by the United Nations The book is quite comprehensive with its focus on a wide range of issues pertaining to the jute agri commodity system addressed against a historical background and from macro economic analytical perspective The volume offers stimulating reading for those interested in the dynamics of agricultural commodity systems like jute and allied fibres The book is expected to help sensitise national governments international organizations and nongovernmental organizations towards the eco sustainability of jute as a natural fibre The book can serve as an excellent reference book for post graduate students in economics jute and textiles management development studies regional development and agriculture and agro marketing Guide to Sources for Agricultural and Biological Research J. Richard Blanchard,Lois Farrell,2023-07-28

Handbook of Sustainable Luxury Textiles and Fashion Miguel Angel Gardetti,Subramanian Senthilkannan

Muthu,2015-08-10 The first volume of this handbook explores different aspects of sustainable luxury textiles and fashion broadly based on the following topics Sustainability and business management Value chain management Use of materials and Sustainable production processes *Natural Fiber* Han-Yong Jeon,2022-11-02 Unlike synthetic fibers that have undergone chemical processing natural fibers are superior in aesthetics and comfort However because they come from nature their supply is inconsistent and it is difficult to control their production Natural fibers are popular because they are generally environmentally friendly and durable and have a strong affinity for water and thus have high absorbency Through chemical modification or processing natural fibers can be developed for medical health sanitation and industrial uses This book discusses natural fibers and how they can be manipulated and modified for practical applications in a variety of industries

**Textile Production in Pre-Roman Italy** Margarita Gleba,2008-11-05 Older than both ceramics and metallurgy textile

production is a technology which reveals much about prehistoric social and economic development This book examines the archaeological evidence for textile production in Italy from the transition between the Bronze Age and Early Iron Ages until the Roman expansion 1000 400 BCE and sheds light on both the process of technological development and the emergence of large urban centres with specialised crafts Margarita Gleba begins with an overview of the prehistoric Appennine peninsula which featured cultures such as the Villanovans and the Etruscans and was connected through colonisation and trade with the other parts of the Mediterranean She then focuses on the textiles themselves their appearance in written and iconographic sources the fibres and dyes employed how they were produced and what they were used for we learn for instance of the linen used in sails and rigging on Etruscan ships and of the complex looms needed to produce twill Featuring a comprehensive analysis of textiles remains and textile tools from the period the book recovers information about funerary ritual the sexual differentiation of labour the spinners and weavers were usually women and the important role the exchange of luxury textiles played in the emergence of an elite Textile production played a part in ancient Italian society s change from an egalitarian to an aristocratic social structure and in the emergence of complex urban communities Operation and Diagnostics of Machines and Production Systems Operational States III Tibor Krenický,Juraj Ružbarský,Anton Panda,2015-10-19 Special topic volume with invited peer reviewed papers only Multiscale Textile Preforms and Structures for Natural Fiber Composites Mohamad Midani,Tamer Hamouda,Ahmed H. Hassanin,Abdel-Fattah M. Seyam,2023-07-10 Textile reinforcement forms preforms play an important role in determining the properties of the final composite and product The preform formation process provides precise control of the fiber architecture and orientation using a suitable textile manufacturing technique While the techniques employed for preparing glass and carbon preforms are well known there is still a gap in understanding on how to prepare natural preforms for composite reinforcements Multiscale Textile Preforms and Structures for Natural Fiber Composites will bridge this gap by presenting unified knowledge on the relevant preform preparation techniques and resulting fiber architectures Emphasis is on the structural parameters of each preform and their effect on the final composite properties This book assembles information and knowledge on natural fiber reinforcement forms including conventional forms such as spun yarn woven knitted nonwoven braided and comingled These are illustrated and classified into one two and three dimensional reinforcements This book also includes information on nonconventional preform formation techniques such as unidirectional tapes pre impregnated preforms spread tows and tailored fiber placement Covers all relevant textile processing technology for natural fiber preforms Provides academic researchers with a better understanding of recent practices in preparing textile reinforcements for natural fiber composites Helps practitioners determine how to use natural fiber reinforcements in producing new sustainable and innovative composites **Handbook of Textile Fibre Structure** Stephen Eichhorn,J. W. S. Hearle,M Jaffe,T Kikutani,2009-10-26 Due to their complexity and diversity understanding the structure of textile fibres is of key importance This authoritative two

volume collection provides a comprehensive review of the structure of an extensive range of textile fibres Volume 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres Part two considers regenerated cellulosic protein alginate chitin and chitosan fibres The final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres Chapters review how fibre structure contributes to key mechanical properties A companion volume reviews the structure of manufactured polymer fibres Edited by leading authorities on the subject and with a team of international authors the two volumes of the Handbook of textile fibre structure is an essential reference for textile technologists fibre scientists textile engineers and those in academia Discusses how fibre structure contributes to key mechanical properties Reviews natural fibres such as cellulosic cotton and silk fibres and considers various regenerated fibres Examines inorganic fibres including glass and carbon as well as specialist fibres such as chemically resistant and optical fibres

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