
Handbook Of Natural Fibres Types Properties And Factors Affecting Breeding And Cultivation Woodhead Publishing Series In Textiles

Handbook of Fibre Rope Technology

Textiles and Fashion

Natural Fiber-Reinforced Biodegradable and Bioresorbable Polymer Composites

Handbook for the Analysis of Micro-Particles in Archaeological Samples

Renewable Materials for Today's Environment

Natural Fibre Composites

Materials, Design and Technology

Handbook of Fibrous Materials, 2 Volumes

From Science to Market

Handbook of Tensile Properties of Textile and Technical Fibres

Fundamentals of Natural Fibres and Textiles

Functional Fillers for Plastics

Volume 1: Types, Properties and Factors Affecting Breeding and Cultivation

Eco-Friendly Adhesives for Wood and Natural Fiber Composites

Characterization, Fabrication and Applications

Volume 2: Processing and Applications

Handbook of Textile Fibre Structure

Handbook of Fire Resistant Textiles

Handbook of Sustainable Concrete and Industrial Waste Management

A Handbook of Common Polymers

Select Proceedings of CPIE 2019

Volume 1: Production and Characterization / Volume 2: Applications in Energy,

Environmental Science and Healthcare

Handbook of Textile and Industrial Dyeing

Natural, Regenerated, inorganic and Specialist Fibres

Fibres, Films, Plastics and Rubbers

Natural Fibres

Recycled and Artificial Aggregate, Innovative Eco-friendly Binders, and Life Cycle

Assessment

Handbook of Natural Fibres

Handbook of Natural Fibres: Types, Properties and Factors Affecting Breeding and Cultivation
Personalize Your Craft with Organic Colors from Acorns, Blackberries, Coffee, and Other Everyday Ingredients
More Than 200 Fibers, from Animal to Spun Yarn
Lignocellulosic Fibers and Wood Handbook
Manufacturing Engineering
Technical Textile Applications
Handbook of Natural Fibres
Handbook of Textile and Industrial Dyeing
Types, Properties and Factors Affecting Breeding and Cultivation
A Guide for Interior Designers and Architects
Handbook of Technical Textiles

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Fibres Types Properties
And Factors Affecting
Breeding And
Cultivation Woodhead
Publishing Series In
Textiles*

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Handbook of Fibre Rope Technology
Springer Nature
Growing awareness of environmental
issues has led to increasing demand for

goods produced from natural products, including natural fibres. The two-volume Handbook of natural fibres is an indispensable tool in understanding the diverse properties and applications of these important materials. Volume 1: Types, properties and factors affecting breeding and cultivation is an essential guide to a wide range of natural fibres, and highlights key techniques for their improvement. Part one reviews key types and fundamental properties of natural textile fibres. The production, identification and testing of a range of cotton, bast, silk and wool fibres are discussed, alongside bioengineered natural textile fibres. Part two goes on to explore the improvement of natural fibre properties and production through breeding and cultivation, beginning with

a discussion of fibrous flax and cotton. Improved natural fibre production through the prevention of fungal growth is explored, along with the use of genetic engineering and biotechnology to enhance desirable characteristics. Finally, the wider impact of natural textile production is discussed, using wild silk enterprise programs as an example. With its distinguished editor and international team of expert contributors, the two volumes of the Handbook of natural fibres are essential texts for professionals and academics in textile science and technology. Provides an essential guide to a wide range of natural fibres and highlights key techniques for their improvement. Reviews key types and fundamental properties of natural textile fibres,

addressing the production, identification and testing of a range of cotton, bast, silk and wool fibres Explores the improvement of natural fibre properties and production through breeding and cultivation, beginning with a discussion of fibrous flax and cotton

Textiles and Fashion Woodhead Publishing

Fibres, Films, Plastics and Rubbers: A Handbook of Common Polymers focuses on polymeric materials. The book first discusses a list of sections on individual polymers. Topics include olefin and vinyl-type, carbohydrate-type, synthetic condensation-type, organo-silicon, and inorganic polymers, as well as proteins. The text also looks at list of sections on specific properties and related information. The book then discusses

polyethylenes, polypropylene, and polytetrafluoroethylene. The text also examines polystyrene. Concerns include the structure, chemistry, physics, fabrication, serviceability, and utilization of these materials. The text also focuses on indene and coumarone/indene resins; polyvinyl acetate and alcohol; polyvinyl formal, acetal, and butyral; and polyacrylates and polymethacrylates. The book then examines the structure, chemistry, physics, fabrication, serviceability, and utilization of polyvinyl chloride, polyvinylidene chloride, cellulose, and cellulose acetate. The book also discusses the structure, chemistry, physics, fabrication, serviceability, and utilization of cellulose nitrate, cellulose ethers, starch, and regenerated proteins. Same type of

evaluation is also done to polyamides, epoxy resins, polyformaldehyde, natural rubber, and nitrile rubbers. The text is a valuable source of information for readers interested in polymeric materials.

Natural Fiber-Reinforced Biodegradable and Bioresorbable Polymer Composites

Handbook of Natural Fibres Volume 2: Processing and Applications

Written by one of the world's leading experts, Handbook of yarn production: technology, science and economics is an authoritative and comprehensive guide to textile yarn manufacturing. The book is designed to allow readers to explore the subject in various levels of detail. The first three chapters provide an overview of yarn production, products

and key principles. The major part of the book then reviews in detail the production processes for short-staple, long-staple and filament yarns. There are also chapters on quality control and the economics of staple-yarn production. The final part of the book consists of a series of appendices which provide in-depth analysis of key topics with detailed technical data and worked examples which is an invaluable reference in itself for anyone concerned with the behaviour, performance and economics of a textile mill. Handbook of yarn production: technology, science and economics is a standard work for both yarn manufacturers and those researching and studying in this important area of the textile industry. A practical and authoritative new

handbook for yarn manufacturing Shows how problems can arise and how to deal with them Includes invaluable technical data, calculations, worked examples and case studies

Handbook for the Analysis of Micro-Particles in Archaeological Samples John Wiley & Sons

A comprehensive and up-to-date overview of the major mineral and organic fillers for plastics, their production, structure and properties, as well as their applications in terms of primary and secondary functions. Edited and co-authored by Professor Marino Xanthos with contributions by international experts from industry and academia, this book presents methods of mixing/incorporation technologies, surface treatments and modifications for

enhanced functionality, an analysis of parameters affecting filler performance and a presentation of current and emerging applications. Additionally, the novel classification according to modification of specific polymer properties rather than filler chemical composition provides a better understanding of the relationships between processing, structure and properties of products containing functional fillers and the identification of new markets and applications. For engineers, scientists and technologists involved in the important sector of polymer composites.

Renewable Materials for Today's Environment Woodhead Publishing

The idea of this book was born due to the rapid increase of the interest in

excellence of agricultural production in the aspect of both – the quality of raw material for food production as well as in the aspect of environment protection. Agrophysics is a field of science that focuses on the quality of agriculture as a whole i.e. the interaction between human and environment, especially the interaction between soil, plant, atmosphere and machine. Physics with its laws, principles and rules is a good tool for description of the interactions, as well as of the results of these interactions. Some aspects of chemistry, biology and other fields of science are also taken under consideration. This interdisciplinary approach can result in holistic description of processes which should lead to improvement of the efficiency of obtaining the raw materials

to ensure a sufficient amount of food, safe for human health. This book could be regarded as the contribution to this description. The reader can find some basic as well, as more particular aspects of the contemporary agriculture, starting with the soil characteristics and treatment, plant growth and agricultural products' properties and processing. *Natural Fibre Composites* Woodhead Publishing

Dyeing is one of the most effective and popular methods used for colouring textiles and other materials. Dyes are employed in a variety of industries, from cosmetic production to the medical sector. The two volumes of the Handbook of textile and industrial dyeing provide a detailed review of the latest techniques and equipment used in the

dyeing industry, as well as examining dyes and their application in a number of different industrial sectors. Volume 2 deals with major applications of dyes and is divided into two parts. Part one covers textile applications, with chapters dealing with the dyeing of wool, synthetic and cellulosic fibres, and textile fibre blends. In part two, industrial applications of dyes are examined, with topics including dyes used in food and in the cosmetics industry. With its distinguished editor and contributions from some of the world's leading authorities, the Handbook of textile and industrial dyeing is an essential reference for designers, colour technologists and product developers working in a variety of sectors, and will also be suitable for

academic use. Provides a detailed review of the latest techniques and equipment used in the dyeing industry. Industrial applications of dyes are examined, with topics including dyes used in food and in the cosmetics industry. Is appropriate for a variety of different readers including designers, colour technologists, product developers and those in academia.

Materials, Design and Technology
Elsevier

The Handbook of Natural Fibres: Volume Two, Processing and Applications, Second Edition provides detailed coverage of the latest processing techniques and industrial applications of a wide range of natural fibers. Natural fibrous resources, both lignocellulosic and protein ones, are renewable,

biodegradable, and nontoxic, making them an important source of sustainable textile solutions. A broad range of sources of natural fibers are covered in the book, including flax, hemp, bast, jute, coir, linen, cotton and silk. This wealth of expert information provides a uniquely detailed reference for the processing, characterization, selection and application of natural fibers.

Connects natural fibers to a wide range of industries, including construction, automotive, packaging and medical
 Helps readers appraise natural fibers on the basis of their mechanical, electrokinetic, antimicrobial or flame retardant qualities
 Provides a rare glimpse of emerging manufacturing methods for silk

Handbook of Fibrous Materials, 2

Volumes John Wiley & Sons

This book collects selected high quality articles submitted to the 2nd International Conference on Natural Fibers (ICNF2015). A wide range of topics is covered related to various aspects of natural fibres such as agriculture, extraction and processing, surface modification and functionalization, advanced structures, nano fibres, composites and nanocomposites, design and product development, applications, market potential, and environmental impact. Divided into separate sections on these various topics, the book presents the latest high quality research work addressing different approaches and techniques to improve processing, performance, functionalities and cost-

effectiveness of natural fibre and natural based products, in order to promote their applications in various advanced technical sectors. This book is a useful source of information for materials scientists, teachers and students from various disciplines as well as for R& D staff in industries using natural fibre based materials.

From Science to Market CRC Press

Through step-by-step instructions and color-saturated photographs, textile designer Sasha Duerr explains the basics of making and using natural plant dye, from gathering materials and making the dyes to simple ideas for how to use them. --from publisher description

Handbook of Tensile Properties of Textile and Technical Fibres Elsevier

Given its importance to consumer safety,

fire resistant textiles are one of the fastest growing sectors in industrial textiles. Handbook of fire resistant textiles provides a comprehensive review of the considerable advances that have occurred in the field of fire resistant textiles in recent years. It draws together scientific and technical expertise from around the world to produce an important source of current knowledge on fire resistant textiles and their use for protection in hostile environments. Part one provides an overview of fire resistant textiles. Chapters discuss burning and combustion mechanisms of textile fibers, chemical modification of natural and synthetic fibers to improve flame retardancy, multi-component flame resistant coating techniques for textiles,

care and maintenance of fire resistant textiles, along with the safety, health and environmental aspects of flame retardants. Part two covers different types of fire resistant fibers and fabrics, including flame retardant cotton, wool, ceramic fibers and blends, composites and nonwovens. Part three reviews standards, regulations, and characterization of fire resistant textiles. Part four includes case studies of major applications of fire resistant textiles. The Handbook of fire resistant textiles is an invaluable resource for a broad spectrum of professionals in the textiles and apparel industries, including textile and garment manufacturers, engineers, researchers, designers, developers and buyers. Provides a comprehensive review of the considerable advances that

have occurred in the field of fire resistant textiles in recent years. Discusses burning and combustion mechanisms of textile fibers and chemical modification of natural and synthetic fibers to improve flame retardancy. Covers different types of fire resistant fibers and fabrics, including flame retardant cotton, wool, ceramic fibers and blends, composites and nonwovens.

Fundamentals of Natural Fibres and Textiles Elsevier

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 1 begins with an

introductory set of chapters on fibre structure and methods to characterise fibres. The second part of the book covers the structure of manufactured polymer fibres such as polyester, polyamides, polyolefin, elastomeric and aramid fibres as well as high-modulus, high-tenacity polymer fibres. Chapters discuss fibre formation during processing and how this affects fibre structure and mechanical properties. A companion volume reviews natural, regenerated, inorganic and specialist 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. The first title of a authoritative two-

volume collection that provides a comprehensive review of the structure of a range of textile fibres Provides an overview of the development of fibre structure and methods to characterise fibres Examines the structure of both traditional and new fibres and natural and manufactured fibres

Functional Fillers for Plastics John Wiley & Sons

Growing awareness of environmental issues has led to increasing demand for goods produced from natural products, including natural fibres. The two-volume Handbook of natural fibres is an indispensable tool in understanding the diverse properties and applications of these important materials. Volume 1: Types, properties and factors affecting breeding and cultivation is an essential

guide to a wide range of natural fibres, and highlights key techniques for their improvement. Part one reviews key types and fundamental properties of natural textile fibres. The production, identification and testing of a range of cotton, bast, silk and wool fibres are discussed, alongside bioengineered natural textile fibres. Part two goes on to explore the improvement of natural fibre properties and production through breeding and cultivation, beginning with a discussion of fibrous flax and cotton. Improved natural fibre production through the prevention of fungal growth is explored, along with the use of genetic engineering and biotechnology to enhance desirable characteristics. Finally, the wider impact of natural textile production is discussed, using

wild silk enterprise programs as an example. With its distinguished editor and international team of expert contributors, the two volumes of the Handbook of natural fibres are essential texts for professionals and academics in textile science and technology. Provides an essential guide to a wide range of natural fibres and highlights key techniques for their improvement. Reviews key types and fundamental properties of natural textile fibres, addressing the production, identification and testing of a range of cotton, bast, silk and wool fibres. Explores the improvement of natural fibre properties and production through breeding and cultivation, beginning with a discussion of fibrous flax and cotton. Springer

The Handbook of Sustainable Concrete and Industrial Waste Management summarizes key research trends in recycling and reusing concrete and industrial waste to reduce their environmental impact. This volume also includes important contributions in collaboration with the CRI-TEST Innovation Lab, Naples – Acerra. Part one discusses eco-friendly innovative cement and concrete and reviews key substitute materials. Part two analyzes the use of industrial waste as aggregates and the mechanical properties of concrete containing waste materials. Part three discusses differences between innovative binders, focusing on alkali-activated and geopolymer concrete. Part four provides a thorough overview of the life cycle assessment (LCA) of concrete

containing industrial wastes and the impacts related to the logistics of wastes, the production of the concrete, and the management of industrial wastes. By providing research examples, case studies, and practical strategies, this book is a state-of-the-art reference for researchers working in construction materials, civil or structural engineering, and engineers working in the industry. Offers a systematic and comprehensive source of information on the latest developments in sustainable concrete; Analyzes different types of sustainable concrete and innovative binders from chemical, physical, and mechanical points of view; Includes real case studies showing application of the LCA methodology.

Volume 1: Types, Properties and

Factors Affecting Breeding and Cultivation Woodhead Publishing

The first edition of Handbook of Technical Textiles has been an essential purchase for professionals and researchers in this area since its publication in 2000. With revised and updated coverage, including several new chapters, this revised two volume second edition reviews recent developments and new technologies across the field of technical textiles. Volume 2 – Technical Textile Applications offers an indispensable guide to established and developing areas in the use of technical textiles. The areas covered include textiles for personal protection and welfare, such as those designed for ballistic protection, personal thermal and fire protection, and

medical applications; textiles for industrial, transport and engineering applications, including composite reinforcement and filtration; and the growing area of smart textiles. Comprehensive handbook for all aspects of technical textiles Provides updated, detailed coverage of processes, fabric structure, and applications Ideal resource for those interested in high-performance textiles, textile processes, textile processing, and textile applications Many of the original, recognized experts from the first edition update their respective chapters *Eco-Friendly Adhesives for Wood and Natural Fiber Composites* Elsevier *Fabrics* provides designers with the information needed to make their fabric specifications easy, informed, and

appropriate to the job at hand, considering aesthetics, performance, application, and green design.

Characterization, Fabrication and Applications W. W. Norton & Company

The Handbook of Natural Fibres: Volume Two, Processing and Applications, Second Edition provides detailed coverage of the latest processing techniques and industrial applications of a wide range of natural fibers. Natural fibrous resources, both lignocellulosic and protein ones, are renewable, biodegradable, and nontoxic, making them an important source of sustainable textile solutions. A broad range of sources of natural fibers are covered in the book, including flax, hemp, bast, jute, coir, linen, cotton and silk. This wealth of expert information provides a

uniquely detailed reference for the processing, characterization, selection and application of natural fibers.

Connects natural fibers to a wide range of industries, including construction, automotive, packaging and medical

Helps readers appraise natural fibers on the basis of their mechanical, electrokinetic, antimicrobial or flame retardant qualities

Provides a rare glimpse of emerging manufacturing methods for silk

Volume 2: Processing and Applications
John Wiley & Sons

Fibres usually experience tensile loads whether they are used for apparel or technical structures. Their form, which is long and fine, makes them some of the strongest materials available as well as very flexible. This book provides a

concise and authoritative overview of tensile behaviour of a wide range of both natural and synthetic fibres used both in textiles and high performance materials. After preliminary chapters that introduce the reader to tensile properties, failure and testing of fibres, the book is split into two parts. Part one examines tensile properties and failure of natural fibres, such as cotton, hemp, wool and silk. Part two discusses the tensile properties and failure of synthetic fibres ranging from polyamide, polyester and polyethylene fibres to carbon fibres. Many chapters also provide a general background to the fibre, including the manufacture, microstructure, factors that affect tensile properties as well as methods to improve tensile failure. With its distinguished editor and array of

international contributors, Handbook of tensile properties of textile and technical fibres is an important reference for fibre scientists, textile technologists and engineers, as well as those in academia. Provides an overview of tensile behaviour of a wide range of both natural and synthetic fibres Examines tensile characteristics, tensile failure of textiles fibres and factors that affect tensile properties Discusses microstructures and each type of fibre from manufacture to finished product Handbook of Textile Fibre Structure Woodhead Publishing Edited by a leading expert in the field with contributions from experienced researchers in fibers and textiles, this handbook reviews the current state of fibrous materials and provides a broad

overview of their use in research and development. Volume One focuses on the classes of fibers, their production and characterization, while the second volume concentrates on their applications, including emerging ones in the areas of energy, environmental science and healthcare. Unparalleled knowledge of high relevance to academia and industry.

Handbook of Fire Resistant Textiles

BoD – Books on Demand

This handbook provides a resource for those already familiar with some kinds of micro-particles who wish to learn more about others, or for those just starting out in the study of microremains who wish to have a broad understanding about microscopic archaeology. Topics covered in this handbook include diatom

microfossils, starch granules, pollen grains, phytoliths, natural fibers, volcanic glass, minerals, insect remains, and feathers. Archaeological investigations increasingly rely on specialist identification of microscopic remnants found in sites. These micro-particles can provide information about the site environment and human activities that may not be apparent from artifacts and materials preserved on the macro-scale, and have given us new, and often high-profile, information about our past. The investigation of this "invisible archaeology" - that is, invisible to the naked eye - is still somewhat new, and generally each kind of micro-particle is studied individually. Researchers become experts in a narrow range of micro-particle types, but may be less

familiar with, or even completely unaware of, the multitude of other forms that are frequently encountered in archaeological samples. This handbook's accessible approach is suitable for those at the beginner level.

Handbook of Sustainable Concrete and Industrial Waste Management Springer Science & Business Media
Handbook of Natural Fibres Volume 2: Processing and Applications Woodhead Publishing Limited