

# MANUFACTURED FIBRE TECHNOLOGY

V.B. Gupta and S.K. Mishra



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# Manufactured Fibre Technology

**B L Deopura, R Alagirusamy, M Joshi, B  
Gupta**



## **Manufactured Fibre Technology:**

**Manufactured Fibre Technology** V.B. Gupta,V.K. Kothari,1997-10-31 Manufactured Fibre Technology provides an accessible and comprehensive treatment of the chemical physical and mechanical processes involved in the production of all important commodity manufactured fibres and most of the industrial fibres The emphasis is on the fundamental principles and industrial aspects of production Latest developments in manufactured fibres in terms of manufacturing processes characteristics and their applications are also covered Manufactured Fibre Technology is designed around twenty chapters with a balance of basic principles and production of specific fibre types Newer and industrially relevant areas such as high speed spinning production of speciality fibres including microfibres computer simulation of spinning high performance fibres spun bonding and melt blowing and re use of fibre waste are included The structure property and application areas of each fibre type are also discussed thus providing a broad understanding of the subject In addition various aspects related to the testing and characterisation of fibres and polymers are reviewed This book is an invaluable resource to students lecturers industrial technologists and researchers in this subject area

**Manufactured Fibre Technology** V.B. Gupta,V.K. Kothari,2012-12-06 Manufactured Fibre Technology provides an accessible and comprehensive treatment of the chemical physical and mechanical processes involved in the production of all important commodity manufactured fibres and most of the industrial fibres The emphasis is on the fundamental principles and industrial aspects of production Latest developments in manufactured fibres in terms of manufacturing processes characteristics and their applications are also covered Manufactured Fibre Technology is designed around twenty chapters with a balance of basic principles and production of specific fibre types Newer and industrially relevant areas such as high speed spinning production of speciality fibres including microfibres computer simulation of spinning high performance fibres spun bonding and melt blowing and re use of fibre waste are included The structure property and application areas of each fibre type are also discussed thus providing a broad understanding of the subject In addition various aspects related to the testing and characterisation of fibres and polymers are reviewed This book is an invaluable resource to students lecturers industrial technologists and researchers in this subject area

Manufactured Fiber Technology V. B. Gupta,1992      **Structure and Properties of**

**High-Performance Fibers** Gajanan Bhat,2016-08-21 Structure and Properties of High Performance Fibers explores the relationship between the structure and properties of a wide range of high performance fibers Part I covers high performance inorganic fibers including glasses and ceramics plus carbon fibers of various types In Part II high performance synthetic polymer fibers are discussed while Part III reviews those natural fibers that can be used to create advanced textiles The high performance properties of these fibers are related to their chemistry and morphology as well as the ways in which they are synthesized and spun High performance fibers form the basis of textile materials with applications in protection medicine and composite reinforcement Fibers are selected for these technical applications due to their advanced physical mechanical

and chemical properties Offers up to date coverage of new and advanced materials for the fiber and textile industries Reviews structure property relationships of high performance inorganic carbon synthetic polymer and natural fibers Includes contributions from an international team of authors edited by an expert in the field Reviews those natural fibers that can be used to create advanced textiles *World Directory of Manufactured Fiber Producers*, 2005 **Synthetic Fibres** J E McIntyre, Textile Institute (Manchester, England), 2005 Publisher description This book examines fibers generated entirely from chemicals Authors consider nylon polyester acrylic and polyolefin fiber which have a wide range of applications including clothing soft furnishing flooring and geo textiles In addition to covering physical chemical and structural properties world markets and future trends Synthetic Fibres discusses chemical intermediates fiber spinning and orientation technology additives polymerization dyeing texturing and other production techniques This comprehensive and accessible book is ideal for industrial and academic textile technologists chemical and synthetic fiber suppliers and yarn and fabric manufacturers

**Handbook of Textile and Industrial Dyeing** M Clark, 2011-10-25 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 1 deals with the principles of dyeing and techniques used in the dyeing process and looks at the different types of dyes currently available Part one begins with a general introduction to dyeing which is followed by chapters that examine various aspects of the dyeing process from the pre treatment of textiles to the machinery employed Chapters in part two then review the main types of dyes used today including disperse dyes acid dyes fluorescent dyes and many others for a diverse range of applications 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 Examines dyeing and its application in a number of different industrial sectors Deals with the principles of dyeing and techniques used in the dyeing process as well as types of dyes currently available Chapters review various dye types right through to modelling and predicting dye properties and the chemistry of dyeing **Encyclopedia of Polymer Applications, 3**

**Volume Set** Munmaya Mishra, 2018-12-17 Undoubtedly the applications of polymers are rapidly evolving Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day to day challenges leading to improvements in quality of life The Encyclopedia of Polymer Applications presents state of the art research and development on the applications of polymers This groundbreaking work provides important overviews to help stimulate further advancements in all areas of polymers This comprehensive multi volume reference includes articles contributed from a diverse and global team of renowned researchers It offers a broad based perspective on a multitude of topics in a variety of

applications as well as detailed research information figures tables illustrations and references The encyclopedia provides introductions classifications properties selection types technologies shelf life recycling testing and applications for each of the entries where applicable It features critical content for both novices and experts including engineers scientists polymer scientists materials scientists biomedical engineers macromolecular chemists researchers and students as well as interested readers in academia industry and research institutions      Recent Trends in Traditional and Technical Textiles Vinay

Midha,A. Mukhopadhyay,2021-01-16 This book comprises the select proceedings of the International Conference on Emerging Trends in Traditional and Technical Textiles ICETT 2019 and examines the latest developments and automation in the field of textile technology The topics covered include geotextiles filters medical textiles functional finishing of textiles composites sustainable textile materials and pollution in the textile industry The book also discusses various aspects of traditional textiles including traditional methods of designing textiles traditional textiles as a new avatar for technical textiles traditional and technical assets of Indian and Asian culture phulkari bagh kalamkari and chope embroideries This book can be useful for students researchers and professionals working in traditional textile design and technical textile applications

**Textile Calculation** R. Chattopadhyay,Sujit Kumar Sinha,Madan Lal Regar,2023-06-13 Textile Calculation Fibre to Finished Garment provides detailed explanations of standard numerical calculations used at different stages of garment production including spinning weaving processing garmenting and testing At every stage from fiber production to garment manufacturing textile production involves the selection of fibers or filaments yarns machines and process parameters The calculations involved in this work relate to requirements of machines in the process line estimations of process parameters process characteristics and machine efficiency all of which must be objective and backed by sound theory Drawing on extensive industry experience this book gathers these numerical problems from across the supply chain to provide best practice and appropriate solutions With its comprehensive coverage of all parts of the textile production cycle this book is essential reading for those preparing to enter the textile industry as well as an invaluable reference for professionals and researchers Provides a complete overview of the manufacturing process of yarns and garments as well as introductory material on the building elements of garments Includes detailed descriptions of industry testing methods for yarns fibers and garments Explains calculation methodologies from across the textile production process      **Recycling in Textiles** Youjiang

Wang,2006-03-20 An increasing amount of waste is generated each year from textiles and their production For economic and environmental reasons it is necessary that as much of this waste as possible is recycled instead of being disposed of in landfill sites In reality the rate of textile recycling is still relatively low On average approximately ten million tonnes of textile waste is currently dumped in Europe and America each year Considering the diversity of fibrous waste and structures many technologies must work in concert in an integrated industry in order to increase the rate of recycling Recycling in textiles shows how this can be achieved The first part of the book introduces the subject by looking at the general issues involved and

the technologies concerned Part Two explores the chemical aspects of textile recycling Part Three focuses on recycled textile products including nonwovens and alternative fibres Finally the last part of the book discusses possible applications of recycled textiles including using recycled products in the operating theatre for soil stabilisation and in concrete reinforcement Recycling in textiles presents several promising technologies and ideas for recycling systems This is the first book of its kind to bring together textile recycling issues technology products processes and applications It will prove an invaluable guide to all those in the industry who are now looking for ways to recycle their textile waste Provides extensive coverage of this hot topic An invaluable guide for all in the textile industry Learn how to increase the rate of recycling

*Non-woven Fabrics* Han-Yong Jeon, 2016-03-24 Non woven Fabrics is differentiated text which covers overall stream from raw fibers to final products and includes features of manufacturing and finish process with specialized application end use Application range of non woven fabrics is extended to all the industrial fields needless to say apparel such as ICT information and communication technology bio and medicals automobiles architectures construction and environmental Every chapter is related to the important and convergent fields with the technical application purpose from downstream to upstream fields Also applicability of non woven fabrics is introduced to be based on the structural analysis of dimensional concept and various non woven fabrics as a state of art embedded convergent material are emphasized in all industry fields by using nanofibers and carbon fibers

**Waste in Textile and Leather Sectors** Ayşegül Körlü, 2020-09-09 In this book in your hands the relationship between the textile and leather sectors and the environment is examined from many viewpoints The book contains many different subjects from sustainability in the textile and leather sectors to the effect of historical textiles on human health It will be interesting for readers from many disciplines in science I thank all the authors contributing to the book and I hope that it will be helpful to the readers

Sustainable Materials for Rubber and Allied Industries Anil K. Bhowmick, Rabindra Mukhopadhyay, Jagannath Chanda, Barun Kumar Samui, Riya Koley, 2025-09-29 Traditional rubber products contain rubber and multiple additives Unfortunately many of these materials are obtained from fossil fuel sources resulting in environmental hazards overuse of dwindling reserves and reliance on a volatile petroleum market price The need for the use of more sustainable materials in the rubber industry is clear and advances are being made towards this goal This unique book highlights these developments in the science and technology of sustainable materials in the rubber and allied industries and covers both rubber materials and the ingredients necessary to make a product and also legislation and regulations pertaining to these KEY FEATURES Offers expert perspectives from both industry and academia Addresses real world problems and offers solutions Provides up to date literature on sustainable materials in these industries Discusses natural and synthetic rubbers and their sustainable monomers and thermoplastic elastomers Details sustainable fillers curing agents and activators antidegradants resins process aids etc Deals with sustainable textiles and steel for reinforcement Covers rubber recycling as well as regulations and legislation This book is aimed at engineers scientists and researchers in

materials science chemistry and related fields who are seeking to provide a sustainable alternative for this crucial industry

Advances in Plasma Treatment of Textile Surfaces Shahid Ul Islam, Aminoddin Haji, 2024-01-24 *Advances in Plasma Treatment of Textile Surfaces* offers a detailed overview on the use of plasma in natural and synthetic textiles and also explores recent applications in technical textiles including composites ballistic performance functionalization and textile wastewater treatment This promising technology can alter the surface properties of textiles without having a significant effect on their bulk properties leading to potential improvements to the scouring de sizing dyeing finishing printing and laminating processes among others Drawing on an international team of contributors from industry as well as academia this important book is bringing these innovative sustainable plasma treatments to textile and polymer scientists everywhere working in the field of textile functionalization Provides detailed technical descriptions of cutting edge applications of plasma in nanotechnology biotechnology and other fields Describes the different kinds of plasma treatment equipment and compares their use for different effects Starts with overviews of basic information such as how to determine surface properties

**Handbook of Fibrous Materials, 2 Volumes** Jinlian Hu, Bipin Kumar, Jing Lu, 2020-06-22 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

*Polymer/Nanodiamond Nanocomposites* Ayesha Kausar, 2024-06-14 *Polymer Nanodiamond Nanocomposites Fundamentals Properties and Applications* provides an up to date review of these materials The structure design processing and properties as well as technological advancements are all thoroughly discussed Several practical and potential application areas are also identified such as tribological aerospace automobile materials thermally conducting lubricant and radiation shielding coatings anti corrosion nanomaterials shape memory nanocomposites energy devices Li ion batteries and solar cells and biomedical nanomaterials drug delivery tissue engineering biosensor imaging Current difficulties and potential opportunities are also discussed in detail *Polymer Nanodiamond Nanocomposites Fundamentals Properties and Applications* covers all aspects of these new novel materials design structure manufacture and applications The book offers an up to date comprehensive knowledge resource for materials scientists researchers and engineers Covers the latest advances in polymer nanodiamond nanocomposites Includes important fundamentals properties and applications Examines nanodiamond nanobifiller derived polymeric nanocomposites Discusses a wide range of technical applications in aerospace automobiles coatings corrosion resistance shape memory energy devices and biomedical fields

*Developing Novel Spinning Methods to Fabricate Continuous Multifunctional Fibres for Bioapplications* Azadeh Mirabedini, 2018-07-23 This book describes the development of three dimensional electroactive fibres using a novel coaxial wet spinning approach

from organic conductors in combination with non conducting hydrogel polymers This book also presents the characterization and evaluation of multiaxial biofibres in terms of mechanical physical electrochemical and biological properties and explores their use in a diverse range of applications including implantable electrodes drug delivery systems and energy storage systems In the first chapter the author highlights the significance of engineering three dimensional fibres introduces the involved hydrogels and organic conductors with emphasis on their biomedical application and collects some of the previously established methods for fabrication of biofibres In the second chapter particular attention is given to the overall experimental fabrication methods and characterization analyses conducted in the work Chapters three to five present the main findings of this work in which readers will discover how novel hybrid hydrogel fibres with an inner core of chitosan and alginate were prepared and characterized how graphene was incorporated into coaxial wet spun biofibres and how one dimensional triaxial fibres were developed using a novel coaxial wet spinning fibre production method and applied as potential battery devices In the final chapter of this work the author summarizes the main achievements of the work and outlines some recommendations for future research

Advanced Technology in Textiles Md. Mizanur Rahman, Mohammad Mashud, Md. Mostafizur Rahman, 2023-06-16 This book highlights the latest technology in textile processing along with the application of eco friendly chemicals and reagents As textile is the second basic human need this industry assimilates a large share in the world economy Nonetheless nothing should be accomplished compromising sustainability therefore updated technology and modern machineries are being used in the textile processing It is not only for enhancing the efficiency but also to reduce waste and energy consumption Moreover Nano particles and Bio chemicals are assumed to become integral part in the future manufacturing system In this book the numerical and investigation results will be presented to highlight the mentioned topics so that the application is lucidly comprehended In a nutshell this book is supposed to cover all the vibrant innovations in the manufacturing arena in textiles in consideration with ecological balance as well as breakthroughs in applied technology assumed to veer the general concept of maintenance of that machineries

**Polyesters and Polyamides** B L Deopura, R Alagirusamy, M Joshi, B Gupta, 2008-06-17 Polyesters and polyamides remain the most used group of synthetic fibres This authoritative book reviews methods of their production ways of improving their functionality and their wide range of applications The first part of the book describes raw materials and manufacturing processes including environmental issues Part two considers ways of improving the functionality of polyester and polyamide fibres including blending weaving coloration and other finishing techniques as well as new techniques such as nanotechnology The final part of the book reviews the range of uses of these important fibres from apparel and sportswear to automotive medical and civil engineering applications With its distinguished editors and international team of contributors Polyesters and polyamides is a standard reference for all those using this important group of fibres Reviews the chemical and physical properties of each fibre and their manufacture Analyses how the functionality of polyester and polyamides can be improved Provides examples of how the

fibres are used in applications

Uncover the mysteries within is enigmatic creation, Embark on a Mystery with **Manufactured Fibre Technology** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( Download in PDF: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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