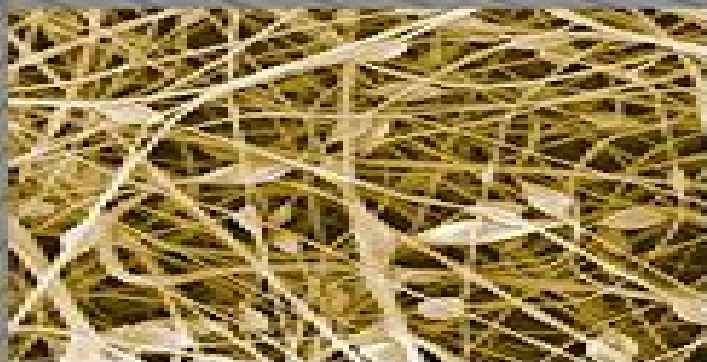


WOODHEAD PUBLISHING IN TEXTILES



# Nanofibers and nanotechnology in textiles

Edited by P. J. Brown and K. Stevens



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# Nanofibers And Nanotechnology In Textiles Woodhead Publishing Series In Textiles

**Xiang Xie**



## **Nanofibers And Nanotechnology In Textiles Woodhead Publishing Series In Textiles:**

**Chromic Materials** Michal Vik, Aravin Prince Periyasamy, 2018-08-06 This informative volume reflects the state of art in the science of color changeable materials and provides an abundance of in depth knowledge about the field of colorimetry The book describes the facts behind the chromic phenomena from the point of application spectrophotometry of chromic materials and instrumentation and testing The authors begin with a short historical overview of the chromic phenomena chromic materials and classification of chromic materials and then go on to provide comprehensive treatises on chromic or color changeable textiles and production techniques Detailed descriptions of measurement methods that are usable in cases of translucent or opaque materials are provided as well A number of new concepts are discussed along with standardized CIE International Commission on Illumination colorimetry with various CIE color space systems Chromic materials appear as a dynamic system which allows for a wide range of potential applications and related research The authors share their own experiences with measurement of color chromic materials with the view to help fill the huge gap in field of measurement from the point of view in standardization The authors conclude with an in depth study of the testing of chromic testing including testing for color fastness fatigue resistance light fastness wash fastness and rubbing fastness Nanotechnology

in Textiles Rajesh Mishra, Jiri Militky, 2018-11-14 Nanotechnology in Textiles Theory and Application explains how conventional methods for treating fabrics for specific functions can be improved upon with the use of nanotechnology Overviews of relevant fundamental nanophysics and nanochemistry theory are provided along with explanations of their application in textile finishing providing a crucial resource for readers exploring this expanding frontier in textiles The book draws on research from around the globe to address the latest nanotechnological developments that are all examined with references to industrial applications Provides a complete theoretical overview of nanotechnology and nanofibers for those with materials science or engineering backgrounds Covers a broad range of topics including aerogels polymer nanocomposites nanohazards and electrospinning Looks ahead to emerging applications of nanotechnology in textiles to point the way for further research and innovation **Particle Technology and Textiles** Jean Cornier, Franz

Pursche, 2023-05-22 Functionalization of material systems is one of the key developments nowadays in the textile industry where particles are frequently used to enhance the properties of fibers and to add new functionalities This book focuses on innovative textile materials and is a perfect guide for professionals in the textile industry and scientists alike An overview of particle technology is provided before addressing all topics relevant to particle enhanced textiles i.e. the properties and application of micro nanoparticles in textiles production techniques safety as well as regulatory and intellectual property aspects The book covers the composition and applications of various types of textile fillers finishings and microfibers gives an outlook on future trends and challenges in the research development and production of nano and micro enabled textiles The authors of the book who are leading experts in their fields address many aspects relevant to the use of particle enhanced

textiles in industrial applications as well as in our daily life A particular emphasis is put on practical examples of applications and products safety and sustainability issues and the potential for further innovation This book should bring inspiration for textile scientists in using particles for improving textiles and further expanding their possibilities of use     **Handbook of Medical Textiles** V Bartels,2011-08-19 With a rising population and the increasing range of textiles for medical products the need to understand and improve medical textiles is gaining in importance The Handbook of medical textiles provides an overview of the different types of medical textiles currently available as well as specific information on more specialised topics and applications In part one the types and properties of medical textiles are discussed with chapters covering topics including reusable textiles textiles for implants and textiles with cosmetic effects Part two focuses on the interaction of textiles with the skin examining key issues such as contact sensations allergies and mechanical irritation Chapters in part three provide information on the latest developments in textiles for hygiene and infection control while part four provides a range of applications and case studies including improvements in medical occupational clothing medical filters and superabsorbent fibres With its expert editor and contributions from some of the world s leading authorities the Handbook of medical textiles is a standard reference for designers and manufacturers of medical textile products as well as for biomaterials scientists and medical professionals Explores the different types of medical textiles currently available as well as specific information on more specialised areas and applications Chapters cover topics such as reusable textiles textiles for implants and interaction of textiles with the skin Is a standard reference for designers and manufacturers of medical textile products as well as for biomaterials scientists and medical professionals     **Functional Nanofibers and their Applications** Q Wei,2012-05-24 Nanofibers are a flexible material with a huge range of potential applications in such areas as technical textiles Functional nanofibers and their applications summarises key trends in the processing and applications of these exciting materials Part one focuses on the types and processing of nanofibers Beginning with an overview of the principles and techniques involved in their production it goes on to review core shell aligned porous and gradient nanofibers The processing and application of composite functional nanofibers carbon and polymer nanofiber reinforcements in polymer matrix composites and inorganic functional nanofibers are then explored in detail before part one concludes with a consideration of surface functionalization A wide variety of functional nanofiber applications are then reviewed in part two Following consideration of their use in filtration drug delivery and tissue engineering applications the role of functional nanofibers in lithium ion batteries sensor applications protective clothing food processing and water purification is explored Discussion of their use in sound absorption electromagnetic wave attenuation and biomedical and microelectronic applications follows before a final discussion of future trends With its distinguished editor and international team of expert contributors Functional nanofibers and applications is a key text for all those working in the fields of technical textiles as well as areas using nanofibers such as composites biomaterials and microelectronics Summarises key trends in the processing

and applications of functional nanofibres in areas such as technical textiles Provides an overview of the principles and techniques involved in the production of nanofibres and reviews core shell aligned porous and gradient nanofibres Considers the use of nanofibres in filtration drug delivery and tissue engineering applications and the role of functional nanofibres in lithium ion batteries sensor applications protective clothing food processing and water purification **Denim** Roshan Paul,2015-04-24 Denim Manufacture Finishing and Applications provides exhaustive coverage of denim manufacture jeans washing novel applications and environmental impacts It also contains information on the history and social influence of denim and includes the details relevant to the fashion and apparel industry The topics covered are comprehensive with contributions from experts the world over and the book is offered as an authentic reference book for any relevant information on denim Provides a thorough review of denim manufacturing and jeans washing technologies Includes details relevant to the fashion and apparel industry while maintaining a high level of technological content on spinning dyeing weaving garments washing finishing and other applications Includes several contributions from industry experts Composite Nonwoven Materials Dipayan Das,Behnam Pourdeyhimi,2014-03-14 Composite nonwoven materials are versatile materials with a variety of applications including hygiene medicine and filtration This important book provides a technical resource for professionals and academics in the field It explores these materials in terms of fiber types used manufacturing processes structure and physical properties The first part of the book focuses on the use of natural and synthetic fibers in composite nonwovens discusses their structure in terms of fiber packing and alignment and their physical properties Further chapters deal with the practical applications of composite nonwoven materials Hygiene applications such as diapers female sanitary products incontinence pads and wipes are covered as well as composite nonwoven based medical products and filters Composite Nonwoven Materials is an ideal reference for R D managers in the textile industry and academic researchers in textile science Systematic and comprehensive information on composite nonwovens Critical review of progress in research and development on composite nonwovens Comment on future research direction and ideas for product development

**Principles of Colour and Appearance Measurement** Asim Kumar Roy Choudhury,2014-11-04 Colour and appearance perceptions are very complex psychological phenomena Written by one of the foremost authorities in the field this major two volume work addresses the key topics required to understand the issues and manage colour effectively Principles of colour appearance and measurement Volume 2 addresses the visual measurement of colour methods of comparing colours and the management of colour in industry Volume 2 begins with an overview of the visual measurement of colour Chapter 1 discusses means of colour communication and various visual attributes of colour Chapter 2 then focuses on several popular colour order systems and chapter 3 discusses various colour difference formulae and their use in colour comparison and control Subsequent chapters review instrumental colorant formulation metamerism chromatic adaptation and colour constancy methods of shade sorting and digital colour reproduction Addresses the means of colour communication and the various

attributes of colour Examines colour order systems and the methods of colour comparison Reviews the management of colour in industry

**Modelling, Simulation and Control of the Dyeing Process** R. Shamey,X. Zhao,2014-08-14 With increased environmental awareness and rising costs manufacturers are investing in real time monitoring and control of dyeing to increase its efficiency and quality This book reviews ways of automating the dyeing process as well as ways of understanding key processes in dyeing including dye transport in fluid systems This understanding is then used to create models to simulate the dyeing process which can then be used to develop appropriate measurement and control systems Control of variables such as temperature pH conductivity and dye concentration can then be used to ensure a more consistent and cost effective dyeing process Reviews the dyeing process and dye house automation and the factors that affect dyeing quality and common difficulties in the process Explains the principles underlying the dyeing process and provides a thorough understanding of the mathematical models that can be used to approximate it Discusses techniques for monitoring dyebaths and controlling the dyeing process

**Woven Terry Fabrics** Jitendra Pratap Singh,Swadesh Verma,2016-08-19 Woven Terry Fabrics Manufacturing and Quality Management encompasses all aspects of terry fabric production from raw material choice and weave design to technological developments dyeing and quality evaluation Nothing feels more luxurious and comforting than wrapping myself or one of my children in a thick soft fluffy towel after bathing says Lindsey a healthcare administrator and mother of two children in Boston Consumers pay an average 15 USD for a bath towel So it has become a luxury item today To meet the demand of growing population the terry fabric industry has grown to a large extent Lots of technological developments have taken place in this field Provides an excellent overview of the best production methods quality control systems latest research and process parameters Offers in depth information on all aspects of production Covers comprehensively for the first time the whole process from raw material through to finished fabric Includes coverage of technological developments

*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 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      *Advances in Yarn Spinning Technology* C A Lawrence,2010-09-27 This book provides an invaluable single source of information on the advances in yarn spinning technologies Advanced spinning systems are described and comparisons are made of the properties of the yarns produced and resultant finished products with those from conventional systems Part one provides an introduction to yarn fibre spinning and structure Chapters discuss the principles of ring spinning and open end spinning of yarns Yarn structure and properties from different spinning techniques and yarn structural requirements for knitted and woven fabrics are also examined Part two covers advances in particular yarn spinning technologies Topics range from siro spinning to compact spinning technology and air jet spinning Final chapters explore how to minimise fibre damage which occur during spinning and the use of spin finishes for textiles With its distinguished editor and array of international contributors *Advances in yarn spinning technology* is an important text for spinners yarn manufacturers and fabric producers as well as researchers technicians engineers and technologists in this sector of the textile industry Documents advances in spinning technologies and presents comparisons between systems Assesses particular textile spinning technologies with specific chapters focusing on siro compact rotor friction and air jet spinning Reviews measures to minimise fibre damage caused by spinning are investigated with specific relevance to rotor and friction spinning      **Woven Textile Structure** B K Behera,P K Hari,2010-03-01 Understanding and predicting the structure and properties of woven textiles is important for achieving specific performance characteristics in various woven applications Woven textiles are used in a range of products such as apparel technical and industrial textiles Woven textile structure Theory and applications provides comprehensive coverage of the structure behaviour modeling and design of woven fabrics and their relevance to the textile industry The first group of chapters review the fundamental principles of woven fabric structures Part two discusses the mechanics of woven fabrics topics include shrinkage in woven fabrics yarn behaviour in woven fabrics and bending behaviour of woven fabrics Part three presents a selection of chapters on design engineering of woven fabrics themes such as textile product design methods and modelling for woven fabric design are covered A final group of chapters is dedicated to addressing practical applications of woven fabrics Woven textile structure Theory and applications is essential reading for designers engineers and technicians involved in the design manufacture and use of woven textiles and garments It will also be beneficial to academics and students Provides comprehensive coverage of the fundamentals of woven fabric structure including geometrical modeling Examines mechanisms of woven fabric structure featuring shrinkage buckling bending and creasing behaviour of textiles Illustrates mathematical modeling and building predictive models for textile product design incorporating validation and testing      Silk K. Murugesh Babu,2013-07-31 Silk is a natural environmentally friendly fibre with a remarkable range of properties making it ideal for use in apparel and many other applications *Silk Processing properties and applications* provides an authoritative reference on sericulture silk fabric

processing silk properties and its applications The book begins by looking at key aspects of sericulture including the range of mulberry and non mulberry species of silk worm early and late stage rearing and harvesting of cocoons Further chapters discuss reeling weaving and spinning techniques as well as dyeing The book also discusses the physical and chemical structure of silk as well as its mechanical and thermal properties Concluding chapters discuss developments in applications and the properties of spider silk Silk Processing properties and applications is useful for textile technologists fibre scientists and all those with an interest in the characteristics of silk its production and the varied uses of this important fibre Provides an in depth summary of silk production properties and structure property relationships Examines the future of silk including its application in the textile biomedical pharmaceutical and cosmetic industries Provides an authoritative reference on sericulture silk fabric processing silk properties and its applications **Advances in Knitting Technology** K F

Au,2011-02-26 Knitted textiles and apparel represent approximately one third of the global textile market This book provides an updated reference to Knitting technology with specific focus on the developments in knitted fabric production and textile applications The first set of chapters begin with a brief review of the fundamental principles of knitting including the types and suitability of yarns for knitting as well as the properties achieved through knitted fabrics The second part of the book examines the major advances in knitting such as intelligent yarn delivery systems in weft knitting knitted fabric composites and advances in circular knitting The concluding section of the book presents a selection of case studies where advanced knitted products are used Topics range from knitted structures for moisture management to weft knitted structures for sound absorption With its distinguished editor and array of international contributors Advances in knitting technology is an important text for designers engineers and technicians involved in the manufacture and use of knitted textiles and garments It will also be relevant for academics and students Provides both a timely and authoritative reference on developments in knitted fabric production Examines different types and suitability of yarns for knitting including the modelling of knitting Advances in knitting are explored in a number of different areas such as intelligent yarn delivery systems and current problems and limitations in weft knitted structures for industrial applications **Colour Design** Janet Best,2012-06-06

Given its importance in analysing and influencing the world around us an understanding of colour is a vital tool in any design process Colour design provides a comprehensive review of the issues surrounding the use of colour from the fundamental principles of what colour is to its important applications across a vast range of industries Part one covers the main principles and theories of colour focusing on the human visual system and the psychology of colour perception Part two goes on to review colour measurement and description including consideration of international standards approval methods for textiles and lithographic printing and colour communication issues Forecasting colour trends and methods for design enhancement are then discussed in part three along with the history of colour theory dyes and pigments and an overview of dye and print techniques Finally part four considers the use of colour across a range of specific applications from fashion art and interiors



to food and website design With its distinguished editor and international team of contributors Colour design is an invaluable reference tool for all those researching or working with colour and design in any capacity Provides a comprehensive review of the issues surrounding the use of colour in textiles Discusses the application of colour across a vast range of industries Chapters cover the theories measurement and description of colour forecasting colour trends and methods for design enhancement

*Thermal Protective Clothing for Firefighters* Guowen Song, Sumit Mandal, René Rossi, 2016-08-27 Thermal Protective Clothing for Firefighters explores the materials design and usage of thermal protective clothing The characteristics of fire hazards are discussed in detail and the thermal environments faced by firefighters in these fire hazards are also examined The different types of potential burn injuries and the heat stress that occurs to firefighters bodies when exposed to such thermal environments are analyzed Furthermore the development of various high performance fibers and fabrics for thermal protective clothing is discussed The test methods and existing standards to evaluate the thermal protective and physiological comfort performances of the fabrics and clothing are critically reviewed Recent developments in the field of fire and heat resistant materials have led to significant improvements in thermal protective clothing In parallel with this the complexity and risk levels of fires especially in industrial storage facilities and developments in health and safety cultures have increased the demand for high performance heat and flame resistant clothing and equipment designed to mitigate skin burn injuries and reduce risk of death from fire hazards Throughout the work the gaps and limitations in existing test methods and standards are identified and approaches are recommended for the development of enhanced test methods Scenario modeling and its implications for firefighters protective clothing is discussed and various factors affecting performance are established Finally various key issues related to thermal protective clothing are addressed to guide the future research in the field of thermal protective clothing for firefighters This book will help materials textile engineers to develop high performance thermal protective clothing that can enhance the protection safety and comfort of firefighters Offers a helpful guide to the successful specification and design of high performance protective clothing to meet the high standards of today s regulatory framework Introduces the new materials technical innovations that are transforming fire protective clothing Explores the role of clothing from the operational perspective including technical innovations Offers a critical review of the test methods and existing standards to evaluate the thermal protective and physiological comfort performances of the fabrics and clothing

**Advances in Shape Memory Polymers** Jinlian Hu, 2013-04-16 Shape memory materials are immensely useful because of their capability to recover their original shapes upon exposure to an external stimulus such as heat moisture light or a magnetic field This book reviews key recent research in shape memory polymers their properties and applications Topics include the relationship between morphological structures and shape memory properties high performance Tg and Tm type shape memory polymers structures of shape memory polymers with supramolecular switches and the thermally active and moisture active shape memory effect of supermolecular shape memory

polymers Advances in shape memory polymers is an essential reference for polymer and textile material students scientists designers engineers and manufacturers It is also an invaluable guide for professionals in the biomedical electronics and engineering industries Reviews key recent research in shape memory polymers their properties and applications Opening chapters address the relationship between morphological structures and shape memory properties and high performance Tg and Tm type shape memory polymers Chapters cover thermally active and moisture active shape memory effect of supermolecular shape memory polymers among other topics

*Fibrous and Composite Materials for Civil Engineering Applications* R Fangueiro, 2011-04-19 The use of fibrous materials in civil engineering both as structural reinforcement and in non structural applications such as geotextiles is an important and interesting development Fibrous and composite materials for civil engineering applications analyses the types and properties of fibrous textile and structures and their applications in reinforcement and civil engineering Part one introduces different types of fibrous textiles and structures Chapters cover the properties of natural and man made fibres and of yarns as well as an overview of textile structures Part two focuses on fibrous material use in concrete reinforcement with chapters on the properties and applications of steel fibre reinforced concrete natural fibre reinforced concrete and the role of fibre reinforcement in mitigating shrinkage cracks In part three the applications of fibrous material based composites in civil engineering are covered Chapters concentrate on production techniques and applications such as reinforcement of internal structures structural health monitoring and textile materials in architectural membranes With its distinguished editor and international team of contributors Fibrous and composite materials for civil engineering applications is a standard reference for fabric and composite manufacturers civil engineers and professionals as well as academics with a research interest in this field Explores the development of fibrous materials in civil engineering both as structural reinforcement and in non structural applications such as geotextiles Key topics include short fibre reinforced concrete natural fibre reinforced concrete and high performance fibre reinforced cementitious composites A standard reference for fabric and composite manufacturers civil engineers and professionals as well as academics with a research interest in this field

**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

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