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Handbook of medical textiles

Edited by V. T. Bartels



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Handbook Of Medical Textiles Woodhead Publishing Series In Textiles

F. Wang, Chuansi Gao



Handbook Of Medical Textiles Woodhead Publishing Series In Textiles:

Medical Textile Materials Yimin Qin, 2015-11-21 Medical Textile Materials provides the latest information on technical textiles and how they have found a wide range of medical applications from wound dressings and sutures to implants and tissue scaffolds This book offers a systematic review of the manufacture properties and applications of these technical textiles After a brief introduction to the human body the book gives an overview of medical textile products and the processes used to manufacture them Subsequent chapters cover superabsorbent textiles functional wound dressings bandages sutures implants and other important medical textile technologies Biocompatibility testing and regulatory control are then addressed and the book finishes with a review of research and development strategy for medical textile products Provides systematic and comprehensive coverage of the manufacture properties and applications of medical textile materials Covers recent developments in medical textiles including antimicrobial dressings drug releasing materials and superabsorbent textiles Written by a highly knowledgeable author with extensive experience in industry and academia

Medical Textiles from Natural Resources Md. Ibrahim H. Mondal, 2022-06-15 Medical Textiles from Natural Resources provides systematic and comprehensive coverage of the fundamentals production methods processing techniques characterization techniques properties and applications of medical textile materials from natural resources Medical textiles offer a variety of technical and functional properties valued in medical and healthcare sectors often relating to hygiene As medical textile products remain in close contact with the human body the fibre must have characteristics such as biological compatibility biological degradability permeability and nontoxicity Only materials from natural renewable sources have such characteristics This book provides the latest information on a wide range of medical applications from single suture and wound dressings to implants and tissue scaffolds It also offers a systematic review of the manufacture properties and applications of technical textiles for medical use Explains the latest technologies related to fibre extraction from natural sources chemical treatments weave constructions fabric finishes and coatings Describes innovative applications of nanomaterials in the treatment of textile fabric and the utilization of carbohydrate polymers in the preparation of nanoparticles deposited in nonwoven fabrics Helps product designers to find appropriate materials from natural resources with the characteristics of biodegradability renewability biocompatibility and nontoxicity

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

Medical and Healthcare Textiles Subhash C. Anand,J F Kennedy,M Miraftab,S. Rajendran,2010-07-15 Medical textiles remain one of the most dynamic areas of research in textiles Medical and healthcare textiles is the fourth in a series of conferences held at the University of Bolton Like its predecessors it has attracted papers from some of the leading international centres of expertise in the field Contributors cover a range of topics including emerging textile based biomaterials hygienic textiles the use of textiles in infection control and as barrier materials bandaging and pressure garments for managing chronic infections such as ulcers the role of textiles in the management of burns and wounds textile based implantable devices such as tissue scaffolds and sutures and intelligent textiles Provides a comprehensive overview of medical textiles from the risk of infection control and barrier materials through to directives regulations and standards shaping the medical device industry Explores developments in healthcare and hygiene products including odor and pH control as well as protective and disposable fabrics Reviews development in the area of implantable materials featuring vascular grafts knee implants and scaffolds

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

High-Performance Apparel John McLoughlin,Tasneem Sabir,2017-09-18 High Performance Apparel Materials Development and Applications

covers the materials and techniques used in creating high performance apparel the technical aspects of developing high performance garments and an array of applications for high performance clothing and wearable technology Part One covers fabric construction for high performance garments from fiber types and spinning methods to weaving knitting finishing and joining techniques Development of high performance apparel is covered in Part Two with particular emphasis on design and product development for function and wearer comfort Part Three covers a range of applications and wearable technology that make use of high performance apparel including chapters on sportswear protective clothing and medical military and intelligent textiles The book provides an excellent resource for all those engaged in garment development and production and for academics engaged in research into apparel technology and textile science Offers a range of perspectives on high performance apparel from an international team of authors with diverse expertise Provides systematic and comprehensive coverage of the topic from fabric construction through apparel design and development to the range of current and potential applications Presents an excellent resource for all those engaged in garment development and production and for academics engaged in research

Advances in Smart Medical Textiles Lieva van Langenhove, 2015-12-02 Advances in Smart Medical Textiles Treatments and Health Monitoring provides comprehensive coverage on smart textiles the emerging and important materials that are finding applications in the fields of medicine and healthcare The book explores the range of smart textiles available for use in medicine and the transfer of these innovative technologies into medical applications Early chapters survey various smart fibers fabrics and finishes while subsequent sections focus on the role of smart textiles in treating patients from wound care to rehabilitation and the use of textile based sensors and wearable electronics for monitoring patient health Provides a comprehensive review of the materials used in smart medical textiles Analyzes the application of these textiles in medical treatments and sensors for health monitoring Covers the range of international research in the field and keeps focus on the needs of the textile industry

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

Protective Clothing F. Wang, Chuansi Gao, 2014-08-04 Protective clothing protects wearers from hostile environments including extremes of heat and cold Whilst some types of protective clothing may be designed primarily for non thermal hazards e.g biological hazards a key challenge in all protective clothing remains wearer comfort and the management of thermal stress i.e excessive heat or cold This book reviews key types of protective clothing technologies for heating and cooling and finally modeling aspects of thermal stress and strain Explores different types of protective clothing their uses and their requirements with an emphasis on full scale or prototype clothing including immersion suits body armour and space suits Considers novel and commercial technologies for regulating temperature in protective clothing including phase change materials shape memory alloys electrically heated clothing and air and water perfusion based cooling systems Reviews the human thermoregulatory system and the methods of modelling of thermal stress in protective clothing through various conditions including cold water survival and firefighting

Advances in 3D Textiles Xiaogang Chen, 2015-05-28 Advances in 3D Textiles presents the most recent advances in the production of three dimensional fibrous structures and how their use has resulted in the creation of novel fabrics and applications The text covers a wide range of fabric types including their structures properties and uses in the textiles industry Beginning with the various types of woven three dimensional fabrics the text then examines 3 D knitted braided and non woven textiles and the main applications and uses of three dimensional textiles Presents the most recent advances in the production of three dimensional fibrous structures and how their use has resulted in the creation of novel fabrics and applications Examines many types of 3 D textiles including knitted braided and non woven textiles and the main uses of three dimensional textiles Covers their structures properties and uses within the textiles industry

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

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

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

Fashion Supply Chain Management Using Radio Frequency Identification (RFID) Technologies Calvin Wong,Z. X. Guo,2014-02-16 Fashion Supply Chain Management Using Radio Frequency Identification RFID Technologies looks at the application of RFID technologies in such areas as order allocation garment manufacturing product tracking distribution and retail As supply chains in the textiles and fashion industry become ever more complex and global and as the shift to mass customization puts more pressure on a rapid and flexible response to customer needs monitoring and improving supply chain efficiency in the industry becomes crucial Radio frequency identification RFID technologies offer a unique opportunity to achieve these goals This book reviews the role of RFID technologies in the textiles and fashion supply chain to improve distribution process management and product tracking garment manufacturing and assembly line operations It also

explores how RFID technologies can improve order allocation in the supply chain and how these technologies can also be used for intelligent apparel product cross selling Its chapters also discuss measuring the impact of RFID technologies in improving the efficiency of the textile supply chain and modeling the effectiveness of RFID technologies in improving sales performance in fashion retail outlets Fashion Supply Chain Management Using Radio Frequency Identification RFID Technologies is a comprehensive resource for academic researchers industry managers and professionals within the fashion industry Looks at the application of RFID technologies in order allocation garment manufacturing product tracking distribution and retail Reviews RFID technologies in the textiles and fashion supply chain for improving distribution process management and product tracking garment manufacturing and assembly line operations Focuses on measuring the impact of RFID technologies on efficiency and modeling the effectiveness of RFID technologies in improving retail outlet sales

Textile-led Design for the Active Ageing Population Jane McCann,David Bryson,2014-08-19 Despite the world s aging population suitable clothing for the older community is a largely neglected area This book considers the needs of the growing number of active older people and investigates how recent developments in textiles fibres finishes design and integrated technology can be deployed to serve this group and improve quality of life Part I provides an understanding of the active aging population by considering the group s experiences of and attitudes towards clothing and reviewing the barriers to their adoption of new wearable technologies Part II focuses on the needs of the older population including effective communication with designers and the age related anatomical and physiological changes that designs should consider Part III reviews design requirements and processes and finally Part IV reviews the manufacture of suitable apparel with chapters on suitable textile fibres balancing technology and aesthetics and wearable electronics Summarises the wealth of recent research on attitudes to clothing amongst the active ageing population Looks into how their aspirations can be investigated and appropriate apparel designed to meet their needs Examines design and manufacturing issues including ways of accommodating physiological changes with age and the use of wearable electronics

Nanotechnology Based Advanced Medical Textiles and Biotextiles for Healthcare Prashansa Sharma,Devsuni Singh,Suman Pant,Vivek Dave,2024-05-27 This book provides systematic coverage of research into medical and biotextiles based on nanomaterials as applicable in healthcare Divided into three sections it explains manufacturing properties types and recent developments in nanotechnology based medical textiles backed by case studies It includes a wide range of different clinical applications of biotextiles for healthcare including nanotextile scaffolds nano based artificial organs surgical sutures enzymatic assisted enhanced biotextiles tissue engineering or drug delivery system via nanofibers and so forth Features Provides strong and broad overview of medical applications in the field of nano and biotextiles Highlights different approaches recent research and emerging innovations Covers designing or developing nanomaterials based antiviral surface disinfectants with self cleaning property Reviews different applications of nano based medical textiles such as deodorizing or pH control clothing for hygiene maintenance

Includes the real life applications based descriptive case studies that offer a diverse range of perspectives This book is aimed at researchers and graduate students in textile technology and engineering and medical textiles Anthropometry, Apparel Sizing and Design Deepti Gupta,Norsaadah Zakaria,2014-02-15 One of the greatest challenges for the apparel industry is to produce garments that fit customers properly Anthropometry Apparel Sizing and Design addresses the need for improved characterization of our populations in order to tailor garments according to size weight and shape of consumers This book reviews techniques in anthropometry sizing system developments and their applications to clothing design Part one considers a range of anthropometric methods The text discusses the range of sizing systems including data mining techniques useful for bridging the gap between ergonomists and designers Chapters examine three dimensional anthropometric methods and multivariate and bivariate analysis for identifying key body dimensions Part two then explains how to analyze anthropometric data to develop appropriate sizing systems Here the book discusses classification and clustering of human body shapes the importance of national surveys and using the data obtained to ensure inclusive design strategies The book covers sizing systems developed for particular groups apparel size designation and the potential for international standardization It considers the advantages of 3D body scanning and computer aided design and the use of body motion analysis to address ease allowance requirements of apparel With its distinguished editors and international contributors this work is an essential reference particularly due to the specific combination of aspects of anthropometry and the sizing of clothing for researchers garment designers students and manufacturers in the clothing and fashion industry Reviews techniques in anthropometry sizing system developments and their applications to clothing design Examines 3D anthropometric methods and multivariate and bivariate analysis for identifying key body dimensions Covers sizing systems developed for particular groups apparel size designation and the potential for international standardization

Advances in the Dyeing and Finishing of Technical Textiles M. L. Gulrajani,2013-02-08 The use of distinctive colourants and finishes has a significant impact on the aesthetic appeal and functionality of technical textiles Advances in the textile chemical industry facilitate production of diverse desirable properties and are therefore of great interest in the production of textile products with enhanced performance characteristics Drawing on key research Advances in the dyeing and finishing of technical textiles details important advances in this field and outlines their development for a range of applications Part one reviews advances in dyes and colourants including chromic materials optical effect pigments and microencapsulated colourants for technical textile applications Other types of functional dyes considered include UV absorbent anti microbial and water repellent dyes Regulations relating to the use of textile dyes are discussed before part two goes on to investigate such advances in finishing techniques as mechanical finishing softening treatments and the use of enzymes Surfactants Inkjet printing of technical textiles and functional finishes to improve the comfort and protection of apparel are also explored The use of nanotechnology in producing hydrophobic super hydrophobic and antimicrobial finishes is dealt with alongside coating and lamination techniques before the book

concludes with a discussion of speciality polymers for the finishing of technical textiles With its distinguished editor and international team of expert contributors *Advances in the dyeing and finishing of technical textiles* is a comprehensive guide for all those involved in the development production and application of technical textiles including textile chemists colour technologists colour quality inspectors product developers and textile finishers Discusses important advances in the textile chemical industry Considers developments in various dyes and colourants used in the industry including water repellent functional and anti microbial dyes Chapters also examine advances in finishing techniques the use of nanotechnology and speciality polymers in technical textiles

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

Optimizing Decision Making in the Apparel Supply Chain Using Artificial Intelligence (AI) Calvin Wong, Z. X. Guo, S Y S Leung, 2013-01-24 Practitioners in apparel manufacturing and retailing enterprises in the fashion industry ranging from senior to front line management constantly face complex and critical decisions There has been growing interest in the use of artificial intelligence AI techniques to enhance this process and a number of AI techniques have already been successfully applied to apparel production and retailing *Optimizing decision making in the apparel supply chain using artificial intelligence AI* From production to retail provides detailed coverage of these techniques outlining how they are used to assist decision makers in tackling key supply chain problems Key decision points in the apparel supply chain and the fundamentals of artificial intelligence techniques are the focus of the opening

chapters before the book proceeds to discuss the use of neural networks genetic algorithms fuzzy set theory and extreme learning machines for intelligent sales forecasting and intelligent product cross selling systems Helps the reader gain an understanding of the key decision points in the apparel supply chain Discusses the fundamentals of artificial intelligence techniques for apparel management techniques Considers the use of neural networks in selecting the location of apparel manufacturing plants

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