



Fabric testing

Edited by Jinlian HU



The Textile Institute

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Fabric Testing Woodhead Publishing Series In Textiles

A. Richard Horrocks, Subhash C. Anand



Fabric Testing Woodhead Publishing Series In Textiles:

Fabric Testing Jinlian Hu, 2008-09-09 The textile industry is becoming an increasingly competitive environment Differentiating products by quality is particularly important Testing can be performed both to improve product quality and achieve compliance to international regional or retailer specific standards Fabric testing provides a comprehensive review of the tests available for fabrics The book begins with introductory chapters which discuss the scope importance and statistical analysis of fabric testing The book then reviews various types of fabric tests such as fabric composition testing physical and mechanical tests fabric chemical testing how to test appearance permeability comfort and flammability as well as dyeing and colouring tests and key issues in testing textile samples With its distinguished editor and international team of contributors Fabric testing is a valuable resource for designers technologists quality inspectors and testing institutes in the textile industry It is also relevant for academics and students within the textile field Reviews various types of fabric tests including fabric composition and fabric chemical testing Discusses the scope significance and statistical analysis of fabric testing Assesses the importance of fabric testing to both product quality and industry standard compliance Advanced Textile Testing Techniques Sheraz Ahmad, Abher Rasheed, Ali Afzal, Faheem Ahmad, 2017-08-01 Textile testing is an important field of textile sciences involving experimental evaluation of conventional as well as technical textile products This book aims to provide technical details required protocols and procedures for conducting any specific evaluation test along with key parameters The book covers the topics in two main sections first one for the conventional textile testing techniques starting from fiber to final product while the second one focusses on testing of technical textiles Written with a reader friendly approach it will cater to graduate students in textile engineering as well as industry personnel focusing on following key points Addresses all techniques for testing both conventional and technical textiles Describes testing techniques compliance with the latest requirements of the updated EN ISO and AATCC standards Provides detailed description on the testing of technical textiles and their products Discusses the operations conditions like atmospheric conditions and human error with cause and effect diagrams Covers both destructive and non destructive testing **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

Advances in Healthcare and Protective Textiles Shahid Ul Islam, Abhijit Majumdar, Bhupendra Singh Butola, 2023-02-09 Advances in Healthcare and Protective Textiles addresses technologies that have had a major impact in industry for decades but which are currently attracting unprecedented attention due to their applications in the fight against the Coronavirus epidemic Recent advances in textile technology have opened new possibilities for textile researchers and scientists in antiviral textiles flame retardant textiles antimicrobial textiles insect repellent textiles breathable medical textiles aroma protective textiles high tech textiles smart textiles nano textiles and more This book provides systematic and comprehensive coverage of cutting edge research and developments on material design methodologies characterizations processes properties and applications of medical healthcare and protective textiles In addition sections pay special attention to advanced fabrication methodologies and materials used in apparel engineering Provides a thorough review of recent advances in personal protective equipment PPE design and manufacture in response to the requirements of the fight against Coronavirus Gives advice on improving sustainability through the use of reusable and recyclable medical textiles Explores innovative materials like biopolymers and their applications in medical textiles

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

Textiles and Fashion Rose Sinclair, 2014-11-08 This major textbook is designed for students studying textiles and fashion at higher and undergraduate level as well as those needing a comprehensive and authoritative overview of textile materials and processes The first part of the book reviews the main types of natural and

synthetic fibres and their properties Part two provides a systematic review of the key processes involved first in converting fibres into yarns and then transforming yarns into fabrics Part three discusses the range of range of finishing techniques for fabrics The final part of the book looks specifically at the transformation of fabric into apparel from design and manufacture to marketing With contributions from leading experts in their fields this major book provides the definitive one volume guide to textile manufacture Provides comprehensive coverage of the types and properties of textile fibres to yarn and fabric manufacture fabric finishing apparel production and fashion Focused on the needs of college and undergraduate students studying textiles or fashion courses Each chapter ends with a summary to emphasise key points a comprehensive self review section and project ideas are also provided

Joining Textiles I Jones,G K Stylios,2013-01-24 Understanding the techniques for joining fabrics together in a way that considers durability strength leak tightness comfort in wear and the aesthetics of the joints is critical to the production of successful structurally secure fabric products Joining textiles Principles and applications is an authoritative guide to the key theories and methods used to join fabrics efficiently Part one provides a clear overview of sewing technology The mechanics of stitching sewing and problems related to sewn textiles are discussed along with mechanisms of sewing machines and intelligent sewing systems Part two goes on to explore adhesive bonding of textiles including principles methods and applications along with a review of bonding requirements in coating and laminating of textiles Welding technologies are the focus of part three Heat sealing ultrasonic and dielectric textile welding are covered as are laser seaming of fabrics and the properties and performance of welded or bonded seams Finally part four reviews applications of joining textiles such as seams in non iron shirts and car seat coverings joining of wearable electronic components and technical textiles and the joining techniques involved in industrial and medical products including nonwoven materials With its distinguished editors and international team of expert contributors Joining textiles is an important reference work for textile product manufacturers designers and technologists fibre scientists textile engineers and academics working in this area Provides an authoritative guide to the key theories and methods used to efficiently join fabrics Discusses the mechanics of stitching and sewing and problems related to sewn textiles alongside mechanisms of sewing machines and intelligent sewing systems Explores adhesive bonding of textiles including principles methods and applications along with a review of bonding requirements in coating and laminating of textiles

Electronic Textiles Tilak Dias,2015-04-28 The integration of electronics into textiles and clothing has opened up an array of functions beyond those of conventional textiles These novel materials are beginning to find applications in commercial products in fields such as communication healthcare protection and wearable technology Electronic Textiles Smart Fabrics and Wearable Technology opens with an initiation to the area from the editor Tilak Dias Part One introduces conductive fibres carbon nano tubes and polymer yarns Part Two discusses techniques for integrating textiles and electronics including the design of textile based sensors and actuators and energy harvesting methods Finally Part Three covers a range of electronic textile applications from wearable electronics to

technical textiles featuring expert chapters on embroidered antennas for communication systems and wearable sensors for athletes Comprehensive overview of conductive fibres yarns and fabrics for electronic textiles Expert analysis of textile based sensors design integration of micro electronics with yarns and photovoltaic energy harvesting for intelligent textiles Detailed coverage of applications in electronic textiles including wearable sensors for athletes embroidered antennas for communication and electronic textiles for military personnel *Textile Design* A Briggs-Goode,K Townsend,2011-04-15

Textile design is a complex field of practice which operates in a competitive global industry Designers need to take into account not only the design but also the manufacture technological development and application of the final product Textile design provides a broad overview of the fundamentals of and advances in textile design as well as practical case studies of relevant industries Part one covers the principles of fabric construction as applied to textile design with chapters on fundamental principles woven and knitted textile design Part two discusses surface approaches to textile design with chapters on such topics as surface design of textiles printed and embroidered textile design dyeing and finishing and the use of colour in textile design Finally part three focuses on the applications and advances in textile design including chapters covering colour trend forecasting sustainable textile design fashion interior and 2D to 3D design considerations and new developments in technical and future textiles With its distinguished editors and international team of contributors Textile design is an essential reference for design professionals in the textile and fashion industries as well as those who specialise in interior textiles and academics with a research interest in the area A broad overview of textile design covering fundamental topics such as principles of fibres and fabrics knitted fabric design through to the dyeing finishing and printing aspects of textile design Explores the design aspects of technical textiles and future textiles An invaluable source of information on textile design and suitable for design professionals in the textile and fashion industries as well as those in academia Physical Testing of Textiles B P Saville,1999-01-08 This book examines the physical testing of textiles in the form of fibre yarn and fabric the emphasis throughout being on standard and reproducible tests After an introductory explanation of sampling and measurement the author explores the effects of moisture on textiles then goes on to discuss fibre dimension yarn tests for linear density twist evenness and hairiness tensile strength and dimensional stability and serviceability Also covered are aspects of comfort and fabric handle colour fastness and quality assurance The book's comprehensive coverage of the physical properties of textiles makes it an essential reference for managers in the textiles industry concerned with quality assurance garment and fabric technologists and students of textile science and engineering

Abrasion Resistance of Materials Marcin Adamiak,2012-03-16 Abrasion is the primary type of wear in almost all fields of industry It is particularly relevant to the longevity of pipelines and pumps and to almost all processing industries and applications where a constant interface exists with abrasive substances such as dust sediments or fluids with mineral particles The performance of systems can be degraded depending on the properties of abrasive particles such as size velocity

angle of impact and shape Furthermore abrasion significantly affects the appearance of end products which can be especially important in applications where surface finishes are of prime importance The use of materials which are resistant to abrasion can help retain the appearance of finished products cut costs associated with maintenance and wear and prevent system downtime Materials which are abrasion resistant are useful for situations where serious damage and mechanical wear can occur and where there is critical demand The aim of this book is to evaluate abrasion resistant materials that are already in use or under development as well as to present information on new techniques in the design and application of such materials This book will be of interest to a wide audience of engineers dealing with wear problems

Computational Science and Its Applications - ICCSA 2018 Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Elena Stankova,Carmelo M. Torre,Ana Maria A.C. Rocha,David Taniar,Bernady O. Apduhan,Eufemia Tarantino,Yeonseung Ryu,2018-07-03 The five volume set LNCS 10960 until 10964 constitutes the refereed proceedings of the 18th International Conference on Computational Science and Its Applications ICCSA 2018 held in Melbourne Australia in July 2018 Apart from the general tracks ICCSA 2018 also includes 34 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality The total of 265 full papers and 10 short papers presented in the 5 volume proceedings set of ICCSA 2018 were carefully reviewed and selected from 892 submissions

Handbook of Technical Textiles A. Richard Horrocks,Subhash C. Anand,2016-03-09 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

Advanced Characterization and Testing of Textiles Patricia I. Dolez,Olivier Vermeersch,Valério Izquierdo,2017-09-19 Advanced Characterization and Testing of Textiles explores developments in physical and chemical testing and specific high performance tests relating to textiles The book introduces the principles of advanced characterization and testing including the importance of performance based specifications in the textiles industry Chapters are organized by textile properties providing in depth coverage of each characteristic Tests for specific applications are addressed with the main focus on high

performance and technical textiles Focuses on advanced testing methods for technical and high performance textiles covering state of the art technology in its field Details specific textile properties and associated testing for each characteristic Functional Textiles for Improved Performance, Protection and Health N Pan,G. Sun,2011-06-21 The textile industry is increasingly based on ongoing innovation and development of higher performance products and the field of functional textiles is no exception This book explores the development of textiles with a wide range of functions with the aim of improving the performance of the product in terms of the protection and health benefits that it can offer The book is split into two parts Part one focuses on functional textiles for improved performance and protection with chapters reviewing antistatic flame retardant and infrared functional textiles among many others Chapters in part two examine the uses of functional textiles in a medical context including superhydrophobic materials antibacterial textiles and insect repellent materials With its distinguished editors and contributions from some of the world s leading authorities Functional textiles for improved performance protection and health is invaluable for textile scientists technologists and engineers as well as those designing and manufacturing textiles It is also a suitable reference for the academic sector Examines the use of functional textiles in a medical context including superhydrophobic materials antibacterial textiles and insect repellent materials Topics range from textile chemicals and their interaction with skin to novel pesticide protective clothing Considers anti ultraviolet protection of clothing and flame retardant textiles *Handbook of Natural Fibres* Ryszard M. Kozlowski,2012-09-21 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 2 Processing and applications focuses on key processing techniques for the improvement and broader application of natural fibres Part one reviews processing techniques for natural fibres Silk production and the future of natural silk manufacture are discussed as well as techniques to improve the flame retardancy of natural fibres and chemical treatments to improve natural fibre properties Ultraviolet blocking properties enzymatic treatment and electrokinetic properties are also discussed Part two goes on to investigate applications of natural fibres including automotive applications geotextiles paper and packaging and natural fibre composites NFCs for the construction and automotive industries The use of flax and hemp textiles made from jute and coir antimicrobial natural fibres and biomimetic textile materials are also considered before a final discussion of enhancing consumer demand for natural textile fibres 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 Focuses on key processing techniques for the improvement and broader application of natural fibres Reviews processing techniques for natural fibres including silk production and the future of natural silk manufacture Discusses ultraviolet blocking properties enzymatic treatment and electrokinetic properties among other topics **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

Information Systems for the Fashion and Apparel Industry Tsan-Ming Jason Choi,2016-04-13 **Information Systems for the Fashion and Apparel Industry** brings together trends and developments in fashion information systems industrial case studies and insights from an international team of authors The fashion and apparel industry is fast growing and highly influential Computerized information systems are essential to support fashion business operations and recent developments in social media mobile commerce models radio frequency identification RFID technologies and ERP systems are all driving innovative business measures in the industry After an introductory chapter outlining key decision points and information requirements in fast fashion supply chains Part One focuses on the principles of fashion information systems with chapters covering how decision making in the apparel supply chains can be improved through the use of fuzzy logic RFID technologies evolutionary optimization techniques and artificial neural networks Part Two then reviews the range of applications for information systems in the fashion and apparel industry to improve customer choice aid design implement intelligent forecasting and procurement systems and manage inventory and returns Provides systematic and comprehensive coverage of information systems for the fashion and apparel industry Combines recent developments and industrial best practices in apparel supply chain management in order to meet the needs of the fashion and apparel industry professionals and academics Features input from a team of highly knowledgeable authors with a range of professional and academic experience overseen by an editor who is a leading expert in the field Reviews the range of applications for information systems in the fashion and apparel industry to improve customer choice aid design implement intelligent forecasting and procurement systems and manage inventory and returns

Advances in Technical Nonwovens George Kellie,2016-05-17 **Advances in Technical Nonwovens** presents the latest information on the nonwovens industry a dynamic and fast growing industry with recent technological innovations that are leading to the development of novel end use applications The book reviews key developments in technical nonwoven manufacturing specialist materials and applications with Part One covering

important developments in materials and manufacturing technologies including chapters devoted to fibers for technical nonwovens the use of green recycled and biopolymer materials and the application of nanofibres The testing of nonwoven properties and the specialist area of composite nonwovens are also reviewed with Part Two offering a detailed and wide ranging overview of the many applications of technical nonwovens that includes chapters on automotive textiles filtration energy applications geo and agrotextiles construction furnishing packaging and medical and hygiene products Provides systematic coverage of trends developments and new technology in the field of technical nonwovens Focuses on the needs of the nonwovens industry with a clear emphasis on applied technology Contains contributions from an international team of authors edited by an expert in the field Offers a detailed and wide ranging overview of the many applications of technical nonwovens that includes chapters on automotive textiles filtration energy applications geo and agrotextiles and more

Antimicrobial Textiles Gang Sun, 2016-04-11 Antimicrobial textiles have attracted a great deal of interest in recent years due to their potential for reducing the transmission of infection in medical and healthcare environments Antimicrobial properties can also improve the performance and lifespan of consumer products and so these fabrics are increasingly finding applications in the wider textile and apparel industry This book provides systematic coverage of the technologies and materials required for developing these important textiles In Part One chapters address key issues and technologies in the creation of antimicrobial textile products Topics covered include testing and regulation microencapsulation sol gel coating and plasma technologies nanotechnology and life cycle assessment Part Two then reviews key antimicrobial agents such as N halamines plant based compounds and photo active chemicals Finally the chapters of Part Three offer detailed reviews of antimicrobial textiles for particular important applications including medical devices protective clothing and products with improved durability and longevity Reviews key issues and technologies in the creation of antimicrobial textile products Offered a detailed overview of by antimicrobial agents and a wide range of important applications Produced by an experienced editor and a distinguished and international team of contributors

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