

WOODHEAD PUBLISHING SERIES IN TEXTILES



# Handbook of sustainable textile production

Marion I. Tobler-Rohr



The Textile Institute

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# Handbook Of Sustainable Textile Production Woodhead Publishing Series In Textiles

**Patricia A Annis**



## **Handbook Of Sustainable Textile Production Woodhead Publishing Series In Textiles:**

**Handbook of Sustainable Textile Production** M. I. Tobler-Rohr, 2016-08 Textile products are produced, distributed, sold and used worldwide. A quantitative assessment of sustainability in the textile manufacturing chain is therefore extremely important. The Handbook of sustainable textile production is a compilation of technical, economical and environmental data from the various processes in this chain. This authoritative reference work provides a detailed study of the sustainable development of textiles. The book opens with an introduction to the topic. Chapters define the principles of sustainability and its use in legislation and industry before going on to investigate the impact of textiles throughout the supply chain, starting with the raw fibre through to fabric production, consumption and disposal. Textile process technology and methods for specifying quality and functions in textile products in order to reduce textile waste and improve sustainability are also examined. A series of Life Cycle Assessments (LCAs) carried out in the European textile industry are investigated. These studies comprise a range of processes from cotton growing, spinning and weaving to the recycling of textiles. The book concludes with a discussion on sustainable textiles from a product development and marketing perspective. With an internationally recognised expert author, the Handbook of sustainable textile production is a valuable reference tool for academics and students as well as for companies across the textile supply chain concerned with developing a sustainable environment from fibre manufacturers and designers to regulatory bodies. A detailed quantitative assessment of the sustainable development of textiles. Provides a useful compilation of technical, economical and environmental data from various processes in the textile manufacturing chain. Chapters define the principles of sustainability and its use in legislation and industry. Textile process technology, the impact of textiles throughout the supply chain, raw fibre through to fabric production, consumption and disposal.

***Sustainable Apparel*** Richard Blackburn, 2015-08-28 Sustainability is an issue that increasingly concerns all those involved in the apparel industry, including textile manufacturers, apparel designers, retailers and consumers. This important book covers recent advances and novel technologies in the key areas of production, processing and recycling of apparel. Part One addresses sustainable finishing and dyeing processes for textiles. The first two chapters concentrate on the environmental impact of fabric finishing, including water consumption, emissions and waste management. Further chapters focus on plasma and enzymatic treatments for sustainable textile processing and the potential for improving the sustainability of dyeing technologies. Part Two covers issues of design, retail and recycling and includes discussions of public attitudes towards sustainability in fashion, methods of measuring apparel sustainability and social trends in the re-use of apparel. Reviews sustainable finishing and dyeing processes for textiles. Addresses social attitudes towards and methods for measuring sustainability in the apparel industry and retail sectors. Covers recycling of apparel.

**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

**Customization 4.0** Stephan Hankammer,Kjeld Nielsen, Frank T. Piller, Günther Schuh, Ning Wang, 2018-06-20 This proceedings volume presents the latest research from the worldwide mass customization personalization MCP community bringing together new thoughts and results from various disciplines within the field The chapters are based on papers from the MCPC 2017 The book showcases research and practice from authors that see MCP as an opportunity to extend or even revolutionize current business models The current trends of Industrie 4 0 digital manufacturing and the rise of smart products allow for a fresh perspective on MCP Customization 4 0 The book places a new set of values in the centre of the debate a world with finite resources global population growth and exacerbating climate change needs smart thinking to engage the most effective capabilities and resources It discusses how Customization 4 0 fosters sustainable development and creates shared value for companies customers consumers and the society as a whole The chapters of this book are contributed by a wide range of specialists offering cutting edge research as well as insightful advances in industrial practice in key areas The MCPC 2017 has a strong focus on real life MCP applications and this proceedings volume reflects this MCP strategies aim to profit from the fact that people are different Their objective is to turn customer heterogeneities into opportunities hence addressing long tail business models The objective of MCP is to provide goods and services that best serve individual customers needs with near mass production efficiency This proceedings volume highlights the interdisciplinary work of thought leaders technology developers and researchers with corporate entrepreneurs putting these

strategies into practice Chapter 24 is open access under a CC BY 4.0 license via [link.springer.com](http://link.springer.com)

**False Twist Textured Yarns** C Atkinson, 2012-03-15 A false twist textured yarn is a continuous filament yarn that has been processed to introduce crimps, coils, loops and other fine distortions along the yarn's length. These distortions give synthetic yarns such as nylon, polyester and polypropylene improved properties such as stretch, bulk, improved thermal insulation and an appearance similar to natural fibres. This important book summarises the key principles, technologies and process issues in the manufacture of high quality false twist textured yarns. After an introductory chapter on the development of textured yarns, the book reviews yarn texturing machine designs and twist application methods including air jet mingling and machine variants for draw textured speciality yarns. It also reviews common process performance and quality problems and how they can be resolved, as well as process control, quality assurance and costs. The final chapters look at applications of false twist textured nylon, polyester and polypropylene yarns as well as the future of false twist texturing. Based on the author's extensive experience in the textile industry, *False twist textured yarns* is a standard reference on the key technologies and process issues involved in the manufacture of high quality false twist textured yarns. Discusses the development of textured yarns, the basic principles of texturing and the process of false twist texturing. Summarises the key principles, technologies and process issues in the manufacture of high quality false twist textured yarns. Chapters include texturing machine design, applications of textured yarns and the future opportunities for false twist texturing.

**Advances in Silk Science and Technology** Arindam Basu, 2015-04-30 The remarkable properties of silk fibres have gained them a prominent place in the field of technical textiles. *Advances in Silk Science and Technology* explores recent developments in silk processing, properties and applications. Techniques for manufacturing spider silk are also discussed and the current and future applications of this fibre are reviewed. Part One focuses on the properties and processing of silk from both silkworms and spiders. It addresses recent advances in our understanding of the properties of silk and offers systematic coverage of the processing of silk from spinning through to finishing, as well as an analysis of quality testing for silk fibres, yarns and fabrics. Part Two then addresses important applications of silk from silkworms and spiders and includes chapters on the use of silk in polymer matrix composites and in different kinds of biomaterial. The book concludes with a chapter on developments in the use of silk waste. Reviews the properties of silk from both silkworms and spiders. Offers systematic coverage of the processing of silk from spinning through to finishing. Covers a range of applications including the use of silk in polymer matrix composites and in different kinds of biomaterial.

**Design of Clothing Manufacturing Processes** Jelka Geršak, 2013-07-31 The era of mass manufacturing of clothing and other textile products is coming to an end; what is emerging is a post-industrial production system that is able to achieve the goal of mass customised, low volume production where the conventional borders between product design, production and user are beginning to merge. To continue developing knowledge on how to design better products and services, we need to design better clothing manufacturing processes grounded in science, technology and

management to help the clothing industry to compete more effectively Design of clothing manufacturing processes reviews key issues in the design of more rapid integrated and flexible clothing manufacturing processes The eight chapters of the book provide a detailed coverage of the design of clothing manufacturing processes using a systematic approach to planning scheduling and control The book starts with an overview of standardised clothing classification systems and terminologies for individual clothing types Chapter 2 explores the development of standardised sizing systems Chapter 3 reviews the key issues in the development of a garment collection Chapters 4 to 7 discuss particular aspects of clothing production ranging from planning and organization to monitoring and control Finally chapter 8 provides an overview of common quality requirements for clothing textile materials Design of clothing manufacturing processes is intended for R D managers researchers technologists and designers throughout the clothing industry as well as academic researchers in the field of clothing design engineering and other aspects of clothing production Considers in detail the design of sizing and classification systems Discusses the planning required in all aspects of clothing production from design and pattern making to manufacture Overviews the management of clothing production and material quality requirements

**Process Control in Textile Manufacturing** Abhijit Majumdar, Apurba Das, R Alagirusamy, V K Kothari, 2012-11-27 Complex raw materials and manufacturing processes mean the textile industry is particularly dependent on good process control to produce high and consistent product quality Monitoring and controlling process variables during the textile manufacturing process also minimises waste costs and environmental impact Process control in textile manufacturing provides an important overview of the fundamentals and applications of process control methods Part one introduces key issues associated with process control and principles of control systems in textile manufacturing Testing and statistical quality control are also discussed before part two goes on to consider control in fibre production and yarn manufacture Chapters review process and quality control in natural and synthetic textile fibre cultivation blowroom carding drawing and combing Process control in ring and rotor spinning and maintenance of yarn spinning machines are also discussed Finally part three explores process control in the manufacture of knitted woven nonwoven textiles and colouration and finishing with a final discussion of process control in apparel manufacturing With its distinguished editors and international team of expert contributors Process control in textile manufacturing is an essential guide for textile engineers and manufacturers involved in the processing of textiles as well as academic researchers in this field Provides an important overview of the fundamentals and applications of process control methods Discusses key issues associated with process control and principles of control systems in textile manufacturing before addressing testing and statistical quality control Explores process control in the manufacture of knitted woven nonwoven textiles and colouration and finishing with a discussion on process control in apparel manufacturing

Functional Finishes for Textiles Roshan Paul, 2014-10-20 Functional finishes for textiles reviews the most important fabric finishes in the textile industry It discusses finishes designed to improve the comfort and other properties of fabrics as well as finishes which

protect the fabric or the wearer Each chapter reviews the role of a finish the mechanisms and chemistry behind the finish types of finish and their methods of application application to particular textiles testing and future trends Describes finishes to improve comfort performance and protection of fabric or the wearer Examines the mechanisms and chemistry behind different types of finishes and their methods of application testing and future trends Considers environmental issues concerning functional finishes 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 **Designing Apparel for Consumers** M-E Faust,S Carrier,2014-04-03

Given its importance for consumer satisfaction and thus brand success apparel fit is a major challenge for retailers and brands across the industry Consequently there have been major developments in sizing research and how it can be used in apparel design This book reviews how these developments are affecting clothing design for different groups of consumers Part one identifies various aspects of body shape size volume and the psychological aspects of designing apparel This section covers topics such as body shape and its influence on apparel size and consumer choices sizing systems body shape and weight distribution with a discussion of the Body Volume Index BVI versus the Body Mass Index BMI and the psychological and sociological factors influencing consumers choice of apparel Part two outlines the challenges in understanding the sizing and shape requirements and choices of particular customer groups This section discusses apparel designed for infants and children older consumers overweight and obese consumers plus size Black and Latino women apparel design for Asian and

Caucasian ethnic groups sizing requirements for male apparel maternity apparel intimate apparel for varying body shapes and the challenges of designing headwear to fit the size and shape of Western and Asian populations Designing apparel for consumers provides an invaluable reference for apparel designers manufacturers and R D managers in the textile industry as well as postgraduate students and academic researchers in textiles Reviews developments affecting clothing design for different groups of consumers Identifies various aspects of body shape size volume and the psychological aspects of designing apparel Outlines the challenges in understanding sizing and shape requirements and choices of particular customer groups

*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

**Mechanisms of Flat Weaving Technology** Valeriy V Choogin,Palitha Bandara,Elena V Chepelyuk,2013-07-31 To create an effective woven fabric a process engineer must choose the appropriate type of weaving machine and determine the particular parameters of the elastic system of fabric formation to be applied It is also essential to know the purpose of all the mechanisms of the chosen type of weaving machine This title provides an important indispensable reference for both weaving specialists and students Mechanisms of flat weaving technology introduces the reader to the classification of different types of weaving machines and the basic mechanisms involved leading to a discussion of the principles and mechanisms of warp release warp let off while also providing a description of the warp shed The book reviews how the supply of weft is maintained on a weaving machine and describes the different methods of weft insertion used on weaving machines Woven fabric formation is described alongside the characteristics of fabric take up from the working area and its winding on the cloth beam Later chapters describe safety protective devices provided on woven machines and the different types of weaving machine driving and stopping mechanisms are presented The authors then discuss ways of estimating the optimal parameters of weaving machine settings whilst describing methods for the evaluation of the quality and the quantity of the woven fabric produced Finally



transportation of raw materials and outputs within the weaving factory are described The book also includes an in depth glossary and full bibliography Provides an introduction to the classification of weaving machines and the mechanisms of warp release insertion methods and weft supply Considers safety and protection including mechanisms for driving and stopping of weaving machines Discusses ways of estimating optimal parameters and methods for evaluating quality and quantity of production

The Impact and Prospects of Green Chemistry for Textile Technology Shahid Ul Islam, Bhupendra Singh Butola, 2018-11-02 The Impact and Prospects of Green Chemistry for Textile Technology provides a review and summary of the role of green chemistry in textiles including the use of green agents and sustainable technologies in different textile applications The book systematically covers the history and chemistry of eco friendly colorants chitin chitosan cyclodextrin biomordants antimicrobial UV protective flame retardant insect repellent textiles and advanced pre and post treatment technologies such as the sonochemistry and plasma methods currently employed in functional modifications The book also pays attention to the remediation of textile effluents using novel sustainable and inexpensive adsorbents Written by high profile contributors with many years of experience in textile technology the book gives engineers and materials scientists in the textile industry the information they need to effectively deploy these green technologies and processes Introduces green chemistry and sustainable technologies and explores their role in different textile applications Examines the use of renewable materials such as biopolymers dyes and pigments biomordants polyphenols and plant extracts in functional finishing applications Deals the functional modification of textiles using state of the art biotechnology and nanotechnology

**The Global Textile and Clothing Industry** Roshan Shishoo, 2012-07-18 Advances in technology combined with the ever evolving needs of the global market are having a strong impact on the textile and clothing sector The global textile and clothing industry Technological advances and future challenges provides an essential review of these changes and considers their implications for future strategies concerning production and marketing of textile products Beginning with a review of trends in the global textile industry the book goes on to consider the impact of environmental regulation on future textile products and processes Following this the importance of innovation driven textile research and development and the role of strategic technology roadmapping are highlighted Both the present structure and future adaptation of higher education courses in textile science are reviewed before recent advances in textile manufacturing technology including joining techniques 3D body scanning and garment design and explored in depth Finally The global textile and clothing industry concludes by considering automating textile preforming technology for the mass production of fibre reinforced polymer FRP composites With its distinguished editor and international team of expert contributors The global textile and clothing industry Technological advances and future challenges is an essential guide to key challenges and developments in this industrial sector Comprehensively examines the implications of technological advancements and the evolving needs of the global market on the textile and clothing industry and considers their role on the future of textile manufacturing The

importance of innovation driven textile research and development and the role of strategic technology roadmapping are thoroughly investigated Recent advances in textile manufacturing technology including joining techniques 3D body scanning and garment design and explored in depth

**Sustainable Textile and Fashion Value Chains** André Matthes, Katja Beyer, Holger Cebulla, Marlen Gabriele Arnold, Anton Schumann, 2020-10-24 This book illustrates key sustainability issues in global textile and fashion value chains by examining individual types of fibers either at a single step in or along the entire value chain It approaches sustainability related issues in the textile and fashion value chain from an interdisciplinary and holistic viewpoint with each contribution linking questions on the textile and fashion value chain to various drivers indicators and concepts of sustainability Each chapter represents a single step in the textile and fashion value chain exploring and considering a wide range of interwoven and interdependent technological environmental social political and economic aspects Various fibers textile engineering and chemical treatment steps as well as innovative business concepts and regulatory frameworks across the entire textile and fashion value chain are identified analyzed discussed and critically evaluated The book provides a systematic overview of the potential and challenges of sustainable textile and fashion value chains making it of interest to practitioners and scientists in sustainability science environmental economics and business management and innovation Further it offers a valuable source of information for industrial and mechanical engineering researchers and for students in the areas of textile engineering fashion or the apparel and clothing industry

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

**Principles of Colour and Appearance Measurement** Asim Kumar Roy Choudhury, 2014-02-19 Colour and appearance perceptions are very complex psychological phenomena Written by one of the foremost authorities in the field Principles of Colour and Appearance Measurement is a major two volume work addressing the key topics required to understand the issues and manage colour effectively The book addresses how objects appear to viewers how viewers perceive colour and the major types of instrumentation used to measure colour Chapters detail the characteristics of light sources and object colour and appearance attributes They encompass the complexities of human visual perception including the various causes and types of colour blindness and other unusual visual phenomena The book also covers colour measurement instruments and methods as well as fluorescence and whiteness Principles of Colour Appearance and Measurement is a comprehensive resource for designers colour technologists colour quality inspectors product developers and anyone who uses colour in their work Addresses the key topics required to understand the issues of colour measure and management Examines how viewers perceive colour and how objects appear to them Reviews the major types of instrumentation used to measure colour

Woven Textiles Kim Gandhi, 2019-11-01 Woven Textiles Principles Technologies and Applications Second Edition is an essential guide to woven textiles This new edition is updated and expanded to include major new application areas as well as the latest developments and innovations in terms of fibers yarns fabrics machinery and technology Sections cover fibers and yarns used for weaving key preparatory techniques the fundamentals of weaving technology the characteristics of woven structures the use of computer assisted design CAD systems techniques for modelling the structure of woven fabrics methods for the manufacture of 3D woven structures and the application of woven textiles in a range of technologies With its distinguished editor and international team of expert contributors this second edition will be an indispensable guide for all designers engineers and technicians involved in the design manufacture and use of woven textiles as well as for academics and researchers in the field of textiles Provides extensive coverage of woven textiles including their preparation manufacture woven structures and characteristics Presents the latest technical applications of woven textiles such as transportation geotextiles medical applications sports and leisure filtration and composite structures Enables the reader to understand the latest technological advances in the area of woven textiles

**Understanding and Improving the Durability of Textiles** Patricia A Annis, 2012-09-11 The ability of a fabric to resist wear is an essential aspect of its performance Understanding and improving the durability of textiles provides a comprehensive guide to the factors affecting the durability of a range of different textiles Part one addresses the different factors that affect textile durability including the influence of fabric construction and fibre type as well as properties affecting strength and dimensional stability Colour fastness and the effects of light are discussed

along with methods for testing and improving wrinkle resistance and textile durability Part two goes on to explore the durability of particular types of textile including antimicrobial textiles protective clothing historic textiles silk and geotextiles With its distinguished editor and international team of expert contributors Understanding and improving the durability of textiles is an indispensable book for textile scientists technologists engineers and those designing testing and manufacturing textiles It also provides a comprehensive guide to textile durability for researchers and academics of all levels in this sector Provides a comprehensive guide to the factors affecting the durability of a range of different textiles Discusses colour fastness and the effects of light and methods for testing and improving wrinkle resistance and textile durability Explores the durability of particular types of textile

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