

# *Handbook of* **SUSTAINABLE APPAREL PRODUCTION**



Edited by  
**Subramanian Senthilkannan Muthu**



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# **Handbook Of Sustainable Apparel Production**

**Rajkishore Nayak,Rajiv Padhye**



## **Handbook Of Sustainable Apparel Production:**

**Handbook of Sustainable Apparel Production** Subramanian Senthilkannan Muthu, 2015-04-28 A hot button societal issue sustainability has become a frequently heard term in every industrial segment Sustainability in apparel production is a vast topic and it has many facets Handbook of Sustainable Apparel Production covers all aspects of sustainable apparel production including the raw materials employed sustainable manufacturing processes and environmental as well as social assessments of apparel production The book highlights the environmental and social impacts of apparel and its assessment It explores the complexities involved in implementing sustainable measures in the massive supply chain of apparel production The discussion then turns to sustainability and consumption behavior of the apparel industry and the assessment of sustainability aspects and parameters The text details technologies that can pave the way toward sustainability in production and closes with coverage of design aspects particularly sustainable design eco design and new approaches to fashion sustainability A vast and complex topic sustainability in apparel production has many faces and facets With contributions from an international panel of experts this book unites all the elements including very minute details and supports them with detailed and interesting case studies It gives you a framework for moving towards sustainability *Handbook of Sustainable Apparel Production* Subramanian Senthilkannan Muthu, 2015

*Handbook of Sustainable Apparel Production* Subramanian Senthilkannan Muthu, 2015-04-28 A hot button societal issue sustainability has become a frequently heard term in every industrial segment Sustainability in apparel production is a vast topic and it has many facets Handbook of Sustainable Apparel Production covers all aspects of sustainable apparel production including the raw materials employed sustainable manufacturing processes *Handbook of Sustainable Textile Production* Marion I Tobler-Rohr, 2011-06-27 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 manufactures 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 Handbook of Sustainable Textile Production Abdulkerim Macar,2016-09-01 Textile products are produced distributed sold and used worldwide A quantitative assessment of sustainability in the textile manufacturing chain is therefore extremely important Sustainable textiles refer to fabrics derived from ecofriendly resources such as sustainably grown fiber crops or recycled materials It also refers to how these fabrics are made Production considerations include the water and energy used for manufacturing the impact of production waste and a company s social responsibility towards its workers and the communities that surround its production facilities In addition to the health and environmental risks adding chemical finishes to textiles can negatively affect the sustainability pathways for fabrics at their end of life Natural fabrics like cotton or wool that could biodegrade post use are not able to do so safely if they are laden with chemicals Added chemistries including dyes finishes and coatings may impact the health of textile workers as well as consumers of the final product Sustainable textile production offers production facilities the possibility of a modular analysis of all relevant concern areas such as quality management use of chemicals environmental protection environmental management social responsibility and health and safety Handbook of sustainable textile production is a compilation of technical economical and environmental data from the various processes in this chain The book highlights the environmental and social impacts of apparel and its assessment It explores the complexities involved in implementing sustainable measures in the massive supply chain of apparel production **Handbook of Sustainable Luxury Textiles and Fashion** Miguel Angel Gardetti,Subramanian Senthilkannan Muthu,2015-08-10 The first volume of this handbook explores different aspects of sustainable luxury textiles and fashion broadly based on the following topics Sustainability and business management Value chain management Use of materials and Sustainable production processes A Practical Guide to Sustainable Fashion Alison Gwilt,2020-07-09 Packed with examples from groundbreaking designers such as Vivienne Westwood Stella McCartney Edun and People Tree A Practical Guide to Sustainable Fashion is a much needed overview of current models of fashion design and production Alison Gwilt introduces the key issues associated with the production use and disposal of fashion clothing and gives step by step guidance on how to identify and evaluate the potential impacts of a garment during the design process With innovative examples of best practice from international designers and brands the chapters follow each key stage in the life cycle of a fashion garment and explores approaches such as low impact textiles techniques mono materiality zero waste techniques upcycling repair and maintenance techniques and closed loop design systems New to this edition More in depth coverage of design thinking materials manufacture practical techniques for creating faster recyclable

fashion and new ways forward for fashion such as including the circular economy and the Sustainable Development Goals

**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 Applications of

Biotechnology for Sustainable Textile Production O.L. Shanmugasundaram, 2021-09-18 Applications of Biotechnology for Sustainable Textile Production is a practical guide to the fundamentals methods and future prospects for sustainable biotechnological and nanobiotechnological approaches to textile production The textile industry is highly motivated to reduce its use of natural resources reduce waste and cost Processes such as dyeing printing and finishing fabrics traditionally require a lot of water and can produce hazardous wastes as a by product In order to help improve these processes this book evaluates different technologies comparing them as ways of saving water energy material waste and time in addition to the reduction of wastewater and sludge Technologies investigated include enzymatic treatments ultrasonic treatments advanced cotton fiber pre treatment to increase dye receptivity nano biotechnology plasma technology and foam technology in the finishing process Health risk assessments and complications resulting from usage of chemicals and other traditional processing technologies are also examined Addresses all five main stages of textile processing including pre treatment dyeing finishing drying and quality control Provides an overview of the techno economic context of the modern textile industry explaining where sustainability fits with other priorities Includes case studies throughout showing how these methods can be used for sustainable textile production **The Palgrave Handbook of Consumerism Issues in the**

**Apparel Industry** Hans Rüdiger Kaufmann, Mohammad Fateh Ali Khan Panni, Demetris Vrontis, 2024-07-31 This handbook offers a comprehensive overview of consumerism issues in the textile apparel and fashion industry illustrating the impact of consumerism on the sector with a focus on SDG 12 Responsible Consumption and Production The book presents a synthesis of mainstream and emerging thinking and studies on green ethical social and environmental issues Currently marketing practices place emphasis on sustainability and social responsibility Although corporate strategies embrace this notion by claiming to be socially responsible and environmentally friendly the truth is still debatable In light of this scholars and

practitioners need to effectively and convincingly respond to consumer concerns on sustainability by adapting their business practices Split into seven parts the Handbook covers theoretical challenges on sustainable consumerism in the apparel industry the influence of sustainable consumerism conceptual frameworks and cross cultural consumer behaviour macro and micro issues innovative trends and communication With discussion of pressing issues such as modern slavery greenwashing social media luxury consumption and sustainable development the book also illustrates the practical implications from a marketing and production point of view in this sector

*Garment Manufacturing Technology* Rajkishore Nayak,Rajiv Padhye,2015-05-26 *Garment Manufacturing Technology* provides an insiders look at this multifaceted process systematically going from design and production to finishing and quality control As technological improvements are transforming all aspects of garment manufacturing allowing manufacturers to meet the growing demand for greater productivity and flexibility the text discusses necessary information on product development production planning and material selection Subsequent chapters covers garment design including computer aided design CAD advances in spreading cutting and sewing and new technologies including alternative joining techniques and seamless garment construction Garment finishing quality control and care labelling are also presented and explored Provides an insiders look at garment manufacturing from design and production to finishing and quality control Discusses necessary information on product development production planning and material selection Includes discussions of computer aided design CAD advances in spreading cutting and sewing and new technologies including alternative joining techniques and seamless garment construction Explores garment finishing quality control and care labelling

*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

### **Sustainability in the Textile and Apparel Industries**

Subramanian Senthilkannan Muthu,Miguel Angel Gardetti,2020-03-16 This book is part of a five volume set that explores sustainability in textile industry practices globally Case studies are provided that cover the theoretical and practical implications of sustainable textile issues including environmental footprints of textile manufacturing consumer behavior eco design in clothing and apparels supply chain sustainability the chemistry of textile manufacturing waste management and textile economics The set will be of interest to researchers engineers industrialists R D managers and students working in textile chemistry economics materials science and sustainable consumption and production This volume comprehensively covers the various sustainable natural materials used in textiles that originate from raw materials sourcing The book discusses agricultural production systems and standards for the development of sustainable textile fibers the effects of chemical surface modification methods on the properties of textile fibers and how antibacterial and antifungal textiles can be manufactured using natural resources

### **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

*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 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

**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

Computer Technology for Textiles and Apparel Jinlian Hu,2011-07-14 Computer technology has transformed textiles from their design through to their manufacture and has contributed to significant advances in the textile industry Computer technology for textiles and apparel provides an overview of these innovative developments for a wide range of applications covering topics including structure and defect analysis modelling and simulation and apparel design The book is divided into three parts Part one provides a review of different computer based technologies suitable for textile materials and includes chapters on computer technology for yarn and fabric structure analysis defect analysis and measurement Chapters in part two discuss modelling and simulation principles of fibres yarns textiles and garments while part three concludes with a review of computer based technologies specific to apparel and apparel design with themes ranging from 3D body scanning to the teaching of computer aided design to fashion students With its distinguished editor and international team of expert contributors Computer technology for textiles and apparel is an invaluable tool for a wide

range of people involved in the textile industry from designers and manufacturers to fibre scientists and quality inspectors Provides an overview of innovative developments in computer technology for a wide range of applications Covers structure and defect analysis modelling and simulation and apparel design Themes range from 3D body scanning to the teaching of computer aided design to fashion students

**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 Women's Intimate Apparel Technology** Yu Wing Man,2016-04-18 Advances in Women s Intimate Apparel Technology discusses the design and manufacture of intimate apparel and how the industry is increasingly embracing novel materials new technologies and innovations in sizing and fit The book reviews the ways in which new materials and methods are improving the range function and quality of intimate apparel with particular focus on brassiere design Part One introduces the advanced materials used for intimate apparel including novel fabrics and dyes and finishes along with materials for wiring and embellishments Part Two discusses the role of seamless technology in intimate apparel production covering lamination moulding and seamless knitting Finally Part Three reviews advances in design fit and performance Provides systematic and comprehensive coverage on key trends in intimate apparel technology Presents chapters that follow a coherent sequence beginning with advanced materials then discussing new manufacturing techniques and finishing with coverage of performance and fit Focuses on the needs of the apparel

industry covering materials manufacturing and design aspects Written by distinguished author and professor Winnie Yu who is the Director of the ACE Style Institute of Intimate Apparel at Hong Kong Polytechnic University      **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

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