

# Handbook of Footwear Design and Manufacture

Second Edition



Edited by Ameersing Luximon



THE TEXTILE INSTITUTE BOOK SERIES



# Handbook Of Footwear Design And Manufacture

**C. Lawrence**



## **Handbook Of Footwear Design And Manufacture:**

*Handbook of Footwear Design and Manufacture* A. Luximon, 2021-02-11 *Handbook of Footwear Design and Manufacture* Second Edition is a fully updated expanded guide on the theories processes methodologies and technologies surrounding the footwear supply chain Topics discussed include engineering design methodology reducing manufacturing waste footwear advertisement emerging imaging technology advice on the optimization of manufacturing processes for productivity and summaries of the latest advances from researchers around the globe This updated edition also includes coverage of sizing and grading based on different footwear styles and methods AI based personalization and customization emerging models for online footwear shopping involving data mining and new methods for foot data analysis and representation Covers many exciting new developments such as AR VR additive manufacturing customization of footwear new last design methods and green footwear Addresses the entire footwear design and manufacture supply chain Explains new methods for foot data analysis and representation

*Handbook of Footwear Design and Manufacture* A. Luximon, 2017-11-13 Understanding footwear design and manufacture is vital for improving the functionality aesthetics and marketability of a product The Handbook of footwear design and manufacture provides a comprehensive review of footwear production and design and explores how these processes are used across a variety of application areas Part one an introductory section reviews the fundamentals of footwear anatomy chapters discuss the anatomy of the human foot biomechanics and gait foot models and measurements the development of the foot in childhood and adolescence and foot problems and their implications for footwear design Part two examines footwear design including the development of shoe design foot sketch templates and footwear drawing templates Aspects of footwear manufacture are highlighted in part three including the design manufacture and sizing and grading of shoe lasts Further chapters focus on the footwear business advertising and the environmental impact of footwear manufacture Part four explores the design and manufacture of footwear for specific applications and includes chapters on footwear for cold weather textiles and other materials used in the production of protective military and orthopaedic footwear and design issues in geriatric footwear The Handbook of footwear design and manufacture is a wide ranging and technical resource for footwear designers materials scientists and researchers involved in the production of footwear and professionals in the footwear industry looking to expand their knowledge of design and manufacture processes Discusses foot anatomy in detail and considers its implications for footwear design Looks at design issues from foot and footwear drawing templates to shoe last design and footwear manufacture Specific chapters focus on the footwear business advertising and the environmental impact of footwear manufacture

*High Performance Textiles and Their Applications* C. Lawrence, 2014-08-21 High performance textiles represent one of the most dynamic sectors of the international textile and clothing industry With contributions from leading experts in the field this book provides an important overview of key developments in the field Chapters cover the use of high performance textiles in such areas as protective clothing heat and

fire protection medicine civil engineering and the energy sector Reviews various approaches to modelling the geometry structure and mechanical and physical properties of advanced textile materials Evaluates novel surface treatments involving plasma and laser technologies for a range of high performance textiles Focuses on textiles for specific purposes with chapters devoted to textiles for heat and fire protection wound care industrial filtration geotextiles civil engineering and sustainable energy applications      Electrospun Nanofibers Mehdi Afshari,2025-08-01 Electrospun Nanofibers Second Edition covers advances in the electrospinning process including the characterization testing and modeling of electrospun nanofibers and electrospinning for particular fiber types and applications This new edition includes sections on biomedical tissue engineering and drug applications of electrospun nanofibers offering systematic and comprehensive coverage for academic researchers industry professionals and postgraduate students working in the field of fiber science Electrospinning is the most commercially successful process for the production of nanofibers and rising demand is driving research and development in this field Electrospinning is becoming more efficient and more specialized in order to produce particular fiber types such as bicomponent and composite fibers patterned and 3D nanofibers carbon nanofibers and nanotubes and nanofibers derived from chitosan Provides systematic and comprehensive coverage on the manufacturing properties and applications of nanofibers Covers recent developments in nanofibers materials including electrospinning of bicomponent chitosan carbon and conductive fibers Brings together expertise from academia and industry to provide comprehensive up to date information on nanofiber research and development Offers systematic and comprehensive coverage for academic researchers industry professionals and postgraduate students working in the field of fiber science      *Digital Textile Printing* Hua Wang,Hafeezullah Memon,2023-07-10 Digital Textile Printing Science Technology and Markets integrates the latest advances in the technology management and design of digital textile printing Ongoing improvements in digital technology have driven a high rate of innovation in this sector and this book draws on the latest advances from industry and academia to bring the reader fully up to date The theoretical and practical aspects of the subject are addressed across the supply chain In addition to the latest digital methods the book also provides the latest advice on inks their rheology their affinity to different fibers and their shelf life This collection also explores emerging applications in this sector pointing the way for future developments in textile printing Explains the basics of digital image design and data encoding Provides technical details on all common types of digital printing machines Addresses common barriers to the implementation of digital printing technology      **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

**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

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

*Advances in Filament Yarn*

*Spinning of Textiles and Polymers* Dong Zhang, 2014-02-15 *Advances in Filament Yarn Spinning of Textiles and Polymers* reviews the different types of spinning techniques for synthetic polymer based fibers and issues such as their effect on fiber properties including melt dry wet and gel spinning Synthetic polymer based fibers are used in a great variety of consumer and industrial textile applications ranging from clothing to home furnishings to surgical procedures This book explores how a wide array of spinning techniques can be applied in the textile industry Part one considers the fundamental structure and properties of fibers that determine their behavior during spinning The book then discusses developments in technologies for manufacturing synthetic polymer films to produce different fibers with specialized properties Part two focuses on spinning techniques including the benefits and limitations of melt spinning and the use of gel spinning to produce high strength and high elastic fibers These chapters focus specifically on developments in bi component bi constituent and electro spinning in particular the fabrication of nanocomposite fibers The final chapters review integrated composite spinning of yarns and the principles of wet and dry spinning This collection is an important reference for a wide range of industrial textile technologists including spinners fabric and garment manufacturers and students of textile technology It is also of great interest for polymer scientists Reviews the different spinning techniques and issues such as their effect on fiber properties including melt dry wet and gel spinning Considers the fundamental structure and properties of fibers that determine their behavior during spinning Reviews integrated composite spinning of yarns and the principles of wet and dry 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 Thermal Protective Clothing for Firefighters Guowen Song, Sumit Mandal, René Rossi, 2016-08-27 *Thermal Protective Clothing for Firefighters* explores the materials design and usage of thermal protective clothing The characteristics of fire hazards are discussed in detail and the thermal environments faced by firefighters in these fire hazards are also examined The different types of potential burn injuries and the heat stress that occurs to firefighters bodies when exposed to such thermal environments are analyzed Furthermore the development of various high performance fibers and fabrics for thermal protective clothing is discussed The test methods and existing standards to evaluate the thermal

protective and physiological comfort performances of the fabrics and clothing are critically reviewed Recent developments in the field of fire and heat resistant materials have led to significant improvements in thermal protective clothing In parallel with this the complexity and risk levels of fires especially in industrial storage facilities and developments in health and safety cultures have increased the demand for high performance heat and flame resistant clothing and equipment designed to mitigate skin burn injuries and reduce risk of death from fire hazards Throughout the work the gaps and limitations in existing test methods and standards are identified and approaches are recommended for the development of enhanced test methods Scenario modeling and its implications for firefighters protective clothing is discussed and various factors affecting performance are established Finally various key issues related to thermal protective clothing are addressed to guide the future research in the field of thermal protective clothing for firefighters This book will help materials textile engineers to develop high performance thermal protective clothing that can enhance the protection safety and comfort of firefighters Offers a helpful guide to the successful specification and design of high performance protective clothing to meet the high standards of today s regulatory framework Introduces the new materials technical innovations that are transforming fire protective clothing Explores the role of clothing from the operational perspective including technical innovations Offers a critical review of the test methods and existing standards to evaluate the thermal protective and physiological comfort performances of the fabrics and clothing

**Ink Jet Textile Printing** Christina Cie,2015-02-11 With the rapid expansion of ink jet printing textile printing and allied industries need to understand the principles underpinning this technology and how it is currently being successfully implemented into textile products Considering the evolution of new print processes technological development often involves a balance of research across different disciplines Translating across the divide between scientific research and real world engagement with this technology this comprehensive publication covers the basic principles of ink jet printing and how it can be applied to textiles and textile products Each step of the ink jet printing process is covered including textiles as a substrate colour management pre treatments print heads inks and fixing processes This book also considers the range of textile printing processes using ink jet technology and discusses their subsequent impact on the textile designer manufacturer wholesaler retailer and the environment Covers the foundations and development of ink jet textile printing technology Discusses the steps of ink jet printing from colour management to fixing processes Analyses how ink jet printing has affected the textile industry

*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

*Clothing for Children and Teenagers* Norsaadah Zakaria, 2016-06-07 Clothing for Children and Teenagers Anthropometry Sizing and Fit addresses the complexities of developing size specifications for clothing aimed at seven to seventeen year olds Children and teenagers experience rapid physical growth and alterations in body shape as they develop changes that pose significant challenges in creating apparel sizing systems The book begins by introducing the principles of apparel fit and sizing systems Drawing on the author's own fieldwork it goes on to discuss methods of conducting anthropometric surveys in children and teenagers and techniques for analyzing the resulting data in order to produce successful sizing systems Introduces the principles of apparel fit and sizing systems and discusses methods of conducting anthropometric surveys in children and teenagers Offers systematic and comprehensive coverage of the complexities associated with clothing for children and teenagers Reviews techniques in analysis and classification of children and teenagers body shapes and sizes Covers the development designation and validation of an apparel sizing system for children and teenagers

**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

*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     *Silk* K. Murugesh Babu,2013-07-31 Silk is a natural environmentally friendly fibre with a remarkable range of properties making it ideal for use in apparel and many other applications Silk Processing properties and applications provides an authoritative reference on sericulture silk fabric processing silk properties and its applications The book begins by looking at key aspects of sericulture including the range of mulberry and non mulberry species of silk worm early and late stage rearing and harvesting of cocoons Further chapters discuss reeling weaving and spinning techniques as well as dyeing The book also discusses the physical and chemical structure of silk as well as its mechanical and thermal properties Concluding chapters discuss developments in applications and the properties of spider silk Silk Processing properties and applications is useful for textile technologists fibre scientists and all those with an interest in the characteristics of silk its production and the varied uses of this important fibre Provides an in depth summary of silk production properties and structure property relationships Examines the future of silk including its application in the textile biomedical pharmaceutical and cosmetic industries Provides an authoritative reference on sericulture silk fabric processing silk properties and its applications     *Modelling, Simulation and Control of the Dyeing Process* R. Shamey,X. Zhao,2014-08-14 With increased environmental awareness and rising costs manufacturers are investing in real time monitoring and control of dyeing to increase its efficiency and quality This book reviews ways of automating the dyeing process as well as ways of understanding key processes in dyeing including dye

transport in fluid systems This understanding is then used to create models to simulate the dyeing process which can then be used to develop appropriate measurement and control systems Control of variables such as temperature pH conductivity and dye concentration can then be used to ensure a more consistent and cost effective dyeing process Reviews the dyeing process and dye house automation and the factors that affect dyeing quality and common difficulties in the process Explains the principles underlying the dyeing process and provides a thorough understanding of the mathematical models that can be used to approximate it Discusses techniques for monitoring dyebaths and controlling the dyeing process

**Textiles for Sportswear** Roshan Shishoo, 2015-05-28 Textiles for Sportswear is an important book that systematically covers key trends in design and materials the use of novel and smart fabrics and a range of specific applications The book begins by surveying the principles of textile applications in sport including design materials and production technology The uses of smart textiles in sportswear are then examined from intelligent materials to wearable technology Final sections of the text explore comfort in sportswear sportswear for protection and recent advances in sportswear technology that are currently being applied to particular sports Reviews the principles of textile applications in sport including design materials and production technology Examines the uses of smart textiles in sportswear Discusses how recent advances in sportswear technology are being applied to particular sports

**Assessing the Environmental Impact of Textiles and the Clothing Supply Chain**, 2014-03-13 The textile industry impacts the environment in a number of ways including its use of resources its impact on global warming and the amount of pollution and waste it generates Assessing the Environmental Impact of Textiles and the Clothing Supply Chain reviews methods used to calculate this environmental impact including product carbon footprints PCFs ecological footprints EFs and life cycle assessment LCA The first chapters provide an introduction to the textile supply chain and its environmental impact and an overview of the methods used to measure this impact The book goes on to consider different environmental impacts of the industry including greenhouse gas emissions the water and energy footprints of the industry and depletion of resources as well as the use of LCA to assess the overall environmental impact of the textile industry It then deals with the practice of measuring these impacts before forming a conclusion about the environmental impact of the industry Assessing the Environmental Impact of Textiles and the Clothing Supply Chain provides a standard reference for R D managers in the textile industry and academic researchers in textile science Reviews the main methods used to calculate the textile industry s use of resources its impact on global warming and the pollution and waste it generates Reviews the key methods their principles and how they can be applied in practice to measure and reduce the environmental impact of textile products Includes the following calculation methods product carbon footprints PCFs ecological footprints EFs and life cycle assessment LCA

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