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Design of clothing manufacturing processes

A systematic approach to
planning, scheduling and
control

Jelka Geršak



The Textile Institute

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Design Of Clothing Manufacturing Processes A Systematic Approach To Planning Scheduling And Control Woodhead Publishing Series In Textiles

Rajkishore Nayak,Rajiv Padhye



Design Of Clothing Manufacturing Processes A Systematic Approach To Planning Scheduling And Control **Woodhead Publishing Series In Textiles:**

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

Design of Clothing Manufacturing Processes Jelka Geršak, 2022-02-08 This second edition of Design of Clothing Manufacturing Processes comprehensively addresses the design and planning of clothing manufacturing processes beginning with the classification of clothing and discussion of its market clothing sizing systems and the key issues involved in developing a fashion collection Special emphasis is placed on production planning and control with detailed coverage of the processes of design pattern making and cutting joining techniques work analysis clothing manufacturing planning and the behaviour performance and quality of materials critical to the development planning and control of manufacturing processes and the sale of garments With its descriptions of the rapid integrated and flexible manufacturing systems of today driven by demand information this book explains how new supply chain models and manufacturing processes can lead to a much quicker route from design to distribution This new edition is updated with important new research and topics including digital fashion incorporating scientific aspects of fabric modelling simulation and digital fitting and the performance of seams as an important criterion for the quality and appearance of clothing Considers in detail the design of clothing classification and sizing systems Comprehensively presents the

requirements of digital fashion the terminology used for virtual garment fabric modelling for virtual clothing simulation and digital fitting Covers the production planning in all aspects of clothing production from design and pattern making to manufacture Provides a thorough review and description of quality requirements for clothing materials Looks in detail at the performance of stitched seams from the theoretical basis for determining seam strength and the parameters that affect seam strength to the phenomenon of seam pucker

Design of Clothing Manufacturing Processes: A Systematic Approach to Planning, Scheduling and Control Jelka Ger Ak, 2017-11-13 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

Advances in Modeling and Simulation in Textile Engineering Nicholus Tayari Akankwasa, Dieter Veit, 2021-03-28 Advances in Modeling and Simulation in Textile Engineering New Concepts Methods and Applications explains the advanced principles and techniques that can be used to solve textile engineering problems using numerical modeling and simulation The book draws on innovative research and industry practice to explain methods for the modeling of all of these processes helping readers apply computational power to more areas of textile engineering Experimental results are presented and linked closely to processes and methods of implementation Diverse concepts such as heat transfer fluid dynamics three dimensional motion and multi phase flow are addressed Finally tools theoretical principles and numerical models are extensively covered Textile engineering involves complex processes which are not easily expressed numerically or simulated such as fiber motion simulation yarn to fiber formation melt spinning

technology optimization of yarn production textile machinery design and optimization and modeling of textile fabric reinforcements Provides new approaches and techniques to simulate a wide range of textile processes from geometry to manufacturing Includes coverage of detailed mathematical methods for textiles including neural networks genetic algorithms and the finite element method Addresses modeling techniques for many different phenomena including heat transfer fluid dynamics and multi phase flow *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 **Handbook of Technical Textiles A.** Richard Horrocks, Subhash C. Anand, 2015-12-01 The second edition of *Handbook of Technical Textiles Volume 1 Technical Textile Processes* provides readers with a comprehensive understanding of the latest advancements in technical textiles With revised and updated coverage including several new chapters this volume reviews recent developments and technologies in the field beginning with an overview of the technical textiles industry that includes coverage of technical fibers and yarns weaving spinning knitting and nonwoven production Subsequent sections include discussions on finishing coating and the coloration of technical textiles Provides a comprehensive handbook for all aspects of technical textiles Presents updated detailed coverage of processes fabric structure and applications An ideal resource for those interested in high performance textiles textile processes textile processing and textile applications Contains contributions from many of the original recognized experts from the first edition who update their respective chapters 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

Handbook of Life Cycle Assessment (LCA) of Textiles and Clothing Subramanian Senthilkannan Muthu, 2015-07-25 Life cycle assessment LCA is used to evaluate the environmental impacts of textile products from raw material extraction through fibre processing textile manufacture distribution and use to disposal or recycling LCA is an important tool for the research and development process product and process design and labelling of textiles and clothing Handbook of Life Cycle Assessment LCA of Textiles and Clothing systematically covers the LCA process with comprehensive examples and case studies Part one of the book covers key indicators and processes in LCA from carbon and ecological footprints to disposal re use and recycling Part two then discusses a broad range of LCA applications in the textiles and clothing industry Covers the LCA process and its key indicators including carbon and ecological footprints disposal re use and recycling Examines the key developments of LCA in the textile and clothing industries Provides a wide range of case studies and examples of LCA applications in the textile and clothing industries

Handbook of Footwear Design and Manufacture A. Luximon, 2013-09-30 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

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 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

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

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

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 Principles of Colour and Appearance Measurement Asim Kumar Roy Choudhury,2014-11-04 Colour and appearance perceptions are very complex psychological phenomena Written by one of the foremost authorities in the field this major two volume work addresses the key topics required to understand the issues and manage colour effectively Principles of colour appearance and measurement Volume 2 addresses the visual measurement of colour methods of comparing colours and the management of colour in industry Volume 2 begins with an overview of the visual measurement of colour Chapter 1 discusses means of colour communication and various visual attributes of colour Chapter 2 then focuses on several popular colour order systems and chapter 3 discusses various colour difference formulae and their use in colour comparison and control Subsequent chapters review instrumental colorant formulation metamerism chromatic adaptation and colour constancy methods of shade sorting and digital colour reproduction Addresses the means of colour communication and the various attributes of colour Examines colour order systems and the methods of colour comparison Reviews the management of colour in industry 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 **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

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

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

The Global Human Resource Management Casebook Liza Castro Christiansen,Michal Biron,Pawan Budhwar,Brian Harney,2023-09-12 The third edition of The Global Human Resource Management Casebook provides a wide range of international teaching cases exploring contemporary human resource management HRM challenges Each case

focuses primarily on one country and illustrates a critical HRM issue confronting managers and HRM practitioners This real world application provides students of HRM with a unique opportunity to examine how key HRM theories and ideas translate into practice The case studies emphasize the national and cultural contexts of HRM providing readers with a global understanding of HRM practices like recruitment reward systems diversity and inclusion as well as recent developments including the impact of the COVID 19 pandemic remote working sustainability and digital transformation In this edition the editors and authors have made significant updates to reflect recent developments in the field and cover a broader range of countries The authors also delve into new industries including consulting energy healthcare IT and education With 31 international cases followed by further reading and learning resources this extensive collection is an invaluable resource for any student seeking to explore contemporary HRM on a global basis

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