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Design of Clothing Manufacturing Processes-Jelka Geršak 2022-02-18 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-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, beginning with the classification of 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 systemsDiscusses the planning required in all aspects of clothing production from design and pattern making to manufactureDiscusses the planning required in all aspects of clothing production from design and pattern making to manufactureDiscusses the planning required in all aspects of clothing production from design and pattern making to manufacture

Garment Manufacturing Technology-Rajkishore Nayak 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-labeling are also presented and explored. Provides an insiders look at garment manufacturing from design and production to finishing and quality controlDiscusses necessary information on product development, production planning, and material selectionIncludes discussions of computer-aided design (CAD), advances in spreading, cutting and sewing, and new technologies, including alternative joining techniques and seamless garment constructionDiscusses necessary information on product development, production planning, and material selectionIncludes discussions of computer-aided design (CAD), advances in spreading, cutting and sewing, and new technologies, including alternative joining techniques and seamless garment constructionDiscusses necessary information on product development, production planning, and material selection

Manufacturing Processes for Design Professionals-Rob Thompson 2007-11-30 An encyclopaedic guide to production techniques and materials for product and industrial designers, engineers, and architects. Today's product designers are presented with a myriad of choices when creating their work and preparing it for manufacture. They have to be knowledgeable about a vast repertoire of processes, ranging from what is known as traditional "crafts" to the latest technology, to enable their designs to be manufactured effectively and efficiently. Information on the internet about such processes is often unreliable, and search engines do not usefully organize material for designers. This fundamental new resource explores innovative production techniques and materials that are having an impact on the design industry worldwide. Organized into four easily referenced parts—Forming, Cutting, Joining, and Finishing—over seventy manufacturing processes are explained in depth with full technical descriptions; analyses of the typical applications, design opportunities, and considerations for each process; offers information on cost, speed, and
environmental impact. The accompanying step-by-step case studies look at a product or component being manufactured at a leading international supplier. A directory of more than fifty materials includes a detailed technical profile, images of typical applications and finishes, and an overview of each material’s design characteristics. With some 1,200 color photographs and technical illustrations, specially commissioned for this book, this is the definitive reference for product designers, 3D designers, engineers, and architects who need a convenient, highly accessible, and practical reference.

Manufacturing Processes for Textile and Fashion Design Professionals—Rob Thompson 2014-10-01 This fundamental resource for all textile and fashion designers explores over 70 production techniques and over 60 materials used in textile and fashion design. Organized into four main parts Fibre and Yarn Technology, Textile Technology, Construction Technology, and Materials it is a complete overview of the life cycle of textile and fashion manufacturing, from the spinning of yarn to recycling. In parts 13, over 70 major processes are explained in detail, each featuring a technical description, an analysis of the applications, design opportunities and considerations, quality, cost, speed and environmental impact. All of the processes feature detailed step-by-step case studies showing the process either at source or in manufacture at a leading international supplier. Part 4 features essential knowledge on over 60 natural and synthetic materials.

Textile Manufacturing Processes—Feaheem Uddin 2019-08-28 Textile manufacturing is an important subject in textile programs and processing industries. The introduction of manmade and synthetic fibers, such as polyester, nylon, acrylic, cellulose, and Kevlar, among others, has greatly expanded the variety of textile products available today. In addition, new fiber developments brought about new machines for producing yarns, fabrics, and garments. Textile Manufacturing Processes is a collection of academic and research work in the field of textile manufacturing. Written by experts, chapters cover topics such as yarn manufacturing, fabric manufacturing, and garment and technical textiles. This book is useful for students, industry workers, and anyone interested in learning the fundamentals of textile manufacturing.

Automation in Garment Manufacturing—Rajibshree Nayak 2017-11-10 Automation in Garment Manufacturing provides systematic and comprehensive insights into this multifaceted process. Chapters cover the role of automation in design and product development, including color matching, fabric inspection, 3D body scanning, computer-aided design and prototyping. Part Two covers automation in garment production, from handling, spreading and cutting, through to finishing and pressing techniques. Final chapters discuss advanced tools for assessing productivity in manufacturing, logistics and supply-chain management. This book is a key resource for all those engaged in textile and apparel development and production, and is also ideal for academics engaged in research on textile science and technology. Delivers theoretical and practical guidance on automated processes that benefit anyone developing or manufacturing textile products Offers a range of perspectives on manufacturing from an international team of experts and comprehensive coverage of the topic, from fabric construction, through product development, to current and potential applications.

Source My Garment: The Insider’s Guide To Responsible Offshore Manufacturing—Adila Cokar 2019-06-19 The ultimate guide to manufacturing your clothing designs, from topstitch to bottom hem... Every clothing designer longs to make their mark on the world of fashion. Turning your design vision into a manufacturing reality, however, can be a daunting prospect. When it comes to launching a fashion line, production is one of the most challenging parts of the business and your success in the apparel business depends on learning every facet of it. Executive manufacturing consultant Adila Cokar draws on her extensive experience to show you how to prepare for production, plan effectively, lower your costs, avoid potential manufacturing problems, design sustainably and more. Fun, focused, and completely in-depth, Source My Garment is the ultimate step-by-step insider’s guide for entrepreneurs and fashion start-ups to build a thriving, prosperous, and sustainable design business.

Apparel Manufacturing Technology—T. Karthik 2016-08-05 This book aims to provide a holistic perspective of apparel manufacturing process starting from raw material selection to packaging and dispatch of goods. Further, engineering practices followed in an apparel industry for production planning and control, line balancing, implementation of industrial engineering concepts in apparel manufacturing, merchandising activities and garment costing have been included, and they will serve as a foundation for future apparel professionals. The book addresses the technical aspects in each section of garment manufacturing process with considerable depth. This book also covers the production planning process and production balancing activities. It addresses the technical aspects in each section of garment manufacturing process and quality aspects to be considered in each process. Garment engineering questions each process/operation of the total work content and can reduce the work content and increase profitability by using innovative methodologies. This book highlights the production planning process, production balancing activities, and application of industrial engineering concepts in garment engineering. Further, the merchandising activities and garment costing procedures will deal with some practical examples. This book is primarily intended for textile technology and fashion technology students in universities and colleges, researchers, industry professionals, and as well as professionals in the apparel and textile industry.

Handbook of Sustainable Apparel Production—Subramanian SenthilKumar 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.

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 role of strategic technology roadmapping as an important issue 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, as are the latest 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.

Apparel Production Terms and Processes—Janace E. Bubonia 2017-01-12 The highly illustrated Apparel Production Terms and Processes follows the product life cycle from concept through completion. The new edition takes a global perspective with expanded coverage of sizing standards and fit information to complete the scope of the apparel production process.

Sustainability in Fashion and Textiles—Miguel Angel Gardetti 2007-09-08 There is no doubt that the textile industry – the production of clothing, fabrics, thread, fibre and related products – plays a significant part in the global economy. It also frequently operates with disregard to its
textile and clothing design technology – tom cassidy 2017-11-15 in the textile industry, there is a pressing need for people who can facilitate the translation of creative solutions from designers into manufacturing language and data. the design technologist has to understand the elements and principles employed by designers and how these change for various textile media. one must also have a good understanding of the processes, materials and products for which the textile designer is required to produce creative solutions. this book will be of interest to designers wishing to improve their technological knowledge, technologists wishing to understand the design process, and anyone else who seeks to work at this design-technology interface. key features: • provides a comprehensive information about textile production, apparel production and the design aspects of both textile and apparel production. • fills the traditional gap between design and manufacturing with advanced technologies. • includes brief summary of spinning, weaving, chemical processing and garmenting. • facilitates translation of creative solutions from designers into manufacturing language and data. • covers set of workshop activities.

green design, materials and manufacturing processes – michael tomlinson 2013-06-06 the rise of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product’s lifecycle. sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century, in the move towards the next generation of manufacturing and processing technologies. the manual

guide to basic garment assembly for the fashion industry – jayne smith 2013-03-07 garment assembly is fundamental to the creation of designs. this guide provides fashion students and designers with the knowledge of the techniques and components essential to the assembly of sewn products. guide to basic garment assembly for the fashion industry develops your understanding of which stitch and seam types toselect for particular fabrics and garments. as well as the knowledge to construct a range of basic techniques to assemble garments using the correct components. it can be difficult to master the skills of garment assembly by reading alone: a visual demonstration of online videos, showing the steps of garment assembly for the following: sewing darts sewing front edge fastenings inserting zip fastenings attaching waistbands assembling and attaching simple and complex pockets sleeve opening construction assembling and attaching collars guide to basic garment assembly for the fashion industry explains the essentials so you can turn your design ideas into reality

computer technology for textiles and apparel – juhnan hu 2011-07-14 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 and modelling. 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

processes and design for manufacturing – sheri d. el wakil 1998-01-01 this book provides comprehensive and in-depth coverage of manufacturing processes from the standpoint of the product designer. reflecting a growing need in industry and education for design-driven instruction, this book demonstrates the importance of considering the selection of manufacturing method early in the design process, illustrating how the selection of method directly affects the geometric characteristics of products. beginning with a study of the design process itself in chapter 1, readers are taken through the product development process, with concurrent engineering presented in chapter 2 (new to this second edition) and cost - as a factor affecting design and manufacturability - covered in a new chapter 11. augmenting the book’s design orientation are new chapters on design for assembly (chapter 12) and environmentally conscious design and manufacturing (chapter 13). the book also includes a wealth of worked-out design examples and design exercises. it is intended for fashion students and materials engineering that explains how materials are selected in the design of products. this book provides engineers and product designers with solidly quantitative, design-driven discussion of manufacturing processes that supports a systems approach to manufacturing.

zero waste fashion design – timo rissanen 2020-08-06 zero waste fashion design combines research and practice to introduce a crucial sustainable fashion design approach. written by two industry leading pioneers, timo rissanen and holly mcquillan, the book offers flexible strategies and easy-to-master zero waste techniques to help you develop your own cutting edge fashion designs. sample flat patterns and more than 20 exercises will reinforce your understanding of the zero waste fashion design process. beautifully illustrated interviews with high-profile, innovative designers, including winifred adrich, rickard lindqvist and yeehlee tang, show the stunning garments produced by zero waste fashion design. featured topics include the criteria for zero waste design. beautiful illustrations and case studies show the stunning garments produced by zero waste fashion design. original cost saving techniques and easy-to-master zero waste techniques to help you develop your own cutting edge fashion designs. easy to master zero waste techniques to help you develop your own cutting edge fashion designs.

unit manufacturing processes – national research council 1995-01-03 manufacturing, reduced to its simplest form, involves the sequencing of product forms through a number of different processes. each individual step, known as an unit manufacturing process, can be viewed as the fundamental building block of a nation’s manufacturing capability. a committee of the national research council has prepared a report to help define national priorities for research in unit processes. it contains an organizing framework for unit process families, criteria for determining the criticality of a process or manufacturing technology, examples of research opportunities, and a prioritized list of enabling technologies that can lead to the manufacture of products of superior quality at competitive costs. the study was performed under the sponsorship of the national science foundation and the defense department’s manufacturing technology program.

circular economy in textiles and apparel – subramanian senthilkannan muthu 2018-11-05 circular economy in textiles and apparel is a systematic approach for the design, manufacture and end-of-life management of products. this book introduces the concept of circular economy in textiles and apparel, and examines how circular economy initiatives can be implemented in the textile and apparel industries. the book covers a wide range of topics, from the challenges and opportunities of circular economy in textiles and apparel to the implementation of circular economy initiatives in the textile and apparel industry. the book also discusses the role of technology in implementing circular economy initiatives in the textile and apparel industry. the book is intended for professionals, researchers, and students in the fields of textiles and apparel, as well as for policy makers and stakeholders in the textile and apparel industry.

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Sustainable Fashion and Textiles-Kate Fletcher 2013-12-17 Praise for the previous edition: “[A] fascinating book.” John Thackara, Doors of Perception “Provides the foundations for a radical new perspective.” Ethical Pulse “At last a book that dispels the idea that fashion is only interested in trend-driven fluff: not only does it have a brain, but it could be a sustainable one.” Lucy Siegle, Crafts Magazine Fully revised and updated, the second edition of Sustainable Fashion and Textiles: Design Journeys continues to define the field of design in fashion and textiles. Arranged in two sections, the first four chapters represent key stages of the lifecycle: material cultivation/extraction, production, use and disposal. The remaining four chapters explore design approaches for altering the scale and nature of consumption, including service design, localism, speed and user involvement. While each chapter is complete in and of itself, their real value comes from what they represent together: innovative ways of thinking about textiles and garments based on sustainability values and an interconnected approach to design. Including a new preface, updated content and a new conclusion reflecting and critiquing developments in the field, as well as discussing future developments, the second edition promises to provide further impetus for future change, sealing Sustainable Fashion and Textiles: Design Journeys as the must-buy book for fashion and textiles professionals and students interested in sustainability.

Lean Tools in Apparel Manufacturing-Prabir Jana 2021-02-07 The never-ending global search for a country with a low labour wage is almost bottoming out. The so-called labor-oriented apparel manufacturing industry is poised to change. Due to fierce global pressure on reducing price and lead time, the textiles and apparel producers will have to banish all waste from their supply chain. Lean manufacturing which removes waste and smoothes the supply chains is gaining popularity among apparel producers and will be a key element for the survival of the industry in the years ahead. An overview of various lean tools with a balanced mix of conceptual knowledge and practical applications in the context of apparel manufacturing Valuable industry information which managers and engineers can follow themselves without the need to hire outside consultants Case studies and examples from apparel manufacturing demonstrating how lean tools are being used successfully by leading organizations; an academician’s delight Possible use cases of several lean tools having potential use in the apparel manufacturing scenario

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

Designing Apparel for Consumers-M-E Faust 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 and shape and size requirements. 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. Recent 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

Designing Clothes-Veronica Manlow 2011-12-31 Fashion is all around us: we see it, we buy it, we read about it, but most people know little about fashion as a business. Fashion and Style Veronica Manlow considers the broader significance of fashion in society, the creative process of fashion design, and how fashion unfolds in an organisational context where design is conceived and executed. To get a true insider’s perspective, she became an intern at fashion giant Tommy Hilfiger. There, she observed and recorded how a business’s culture is built on a brand that is linked to the charisma and style of its leader. Fashion firms are not just in the business of selling clothing along with a variety of sidelines. These companies must also sell a larger concept around which people can identify and distinguish themselves from others. Manlow deftly describes the four main tasks of a fashion firm as the creation of an image, translation of that image into a product, presentation of the product, and selling the product. Each of these processes is individually considered and each requires the efforts of a variety of specialists, who are often in distant locations. Manlow shows how the design and presentation of fashion is influenced by changes in society, both cultural and economic. Information about past sales and reception of items, as well as projective research informs design, manufacturing, sales, distribution, and marketing decisions. Manlow offers a comprehensive view of the ways in which creative decisions are made, leading up to the creation of actual styles. She helps to define the contribution fashion firms make in upholding, challenging, or redefining the social order. Readers will find in this fascinating examination of an industry that is quite visible, but little understood.

Fashion Design Essentials-Jay Calderin 2012-11-01 Provides guidelines and advice on starting points for fashion designers of all levels, including defining and rendering concepts, understanding textiles, developing sewing skills, and building an audience.

Emerging Trends in Intelligent and Interactive Systems and Applications-Madjid Tavana 2020-12-17 This book reports on the proceeding of the 5th International Conference on Intelligent, Interactive Systems and Applications (IISA 2020), held in Shanghai, China, on September 25–27, 2020. The IISA proceedings, with the latest scientific findings, and methods for solving intriguing problems, are a reference for state-of-the-art works on intelligent and interactive systems. This book covers nine interesting and current topics on different systems’ orientations, including Analytical Systems, Database Management Systems, Electronics Systems, Energy Systems, Intelligent Systems, Network Systems, Optimization Systems, Pattern Recognition Systems, and Interactive Systems. The chapters included in this book cover significant recent developments in the field, both in terms of theoretical foundations and their practical application. An important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems.

Textile-led Design for the Active Ageing Population-Jane McCann 2014-08-19 Despite the world’s ageing 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 designers should consider in their work. Part III reviews various comfort and performance aspects, 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.

**Thermal Protective Clothing for Firefighters**-Guowen Song 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 hazards are discussed. The close development of various high performance fibres 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. Furthermore, 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 in the existing standards and methods 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 evaluated. Finally, various key issues related to the 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 by introducing technical innovations in this field. This book presents the very latest advances, and is expanded to include in-depth coverage of sizing and fit for specific groups and applications. Sections cover the development of sizing systems, classification and body types, the use of anthropometric data, body measurement devices and techniques, including 3D scanners for the full body and for particular body parts, 4D scanning and analysis. Additional sections cover testing and the evaluation of fit and anthropometric sizing systems for particular functions, thus reflecting the increasing need for apparel to meet specific needs, such as in swimwear, protective clothing, mobility, intimate apparel, footwear, and compression garments. This book will be an essential reference source for apparel designers, manufacturers, retailers and merchandisers. Its detailed information and data will also be of great interest to researchers and postgraduate students across clothing technology, product design, fashion and textiles. It also includes information that can be used on the job to actually apply these cutting-edge developments in textiles, fibres, finishes, design and integrated technology to manufacturer and design cutting-edge processes and technologies in a real-world setting. Essential for manufacturing engineers and designers, Design for Advanced Manufacturing is enhanced by a host of international contributors, making the book a true global resource. Information on the latest technologies and processes, such as 3D printing, nanotechnology, laser cutting, prototyping, additive manufacturing, and CAD/CAM software tools. Coverage of new materials including nano, smart, and shape-memory alloys, in steels, glass, plastics, and composites.

**Modelling, Simulation and Control of the Dyeing Process**-R. Shaney 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 the process. 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 customer satisfaction in the dyeing system. 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.

**Anthropometry, Apparel Sizing and Design**-Norsaadah Zakaria 2019-10-05

Anthropometry, Apparel Sizing and Design, Second Edition, reviews techniques in anthropometry, sizing system developments, and their applications to clothing design. The book addresses the need for the improved characterization of population size, weights and the shapes of consumers. This new edition presents the very latest advances, and is expanded to include in-depth coverage of sizing and fit for specific groups and applications. Sections cover the development of sizing systems, classification and body types, the use of anthropometric data, body measurement devices and techniques, including 3D scanners for the full body and for particular body parts, 4D scanning and analysis. Additional sections cover testing and the evaluation of fit and anthropometric sizing systems for particular functions, thus reflecting the increasing need for apparel to meet specific needs, such as in swimwear, protective clothing, mobility, intimate apparel, footwear, and compression garments. This book will be an essential reference source for apparel designers, manufacturers, retailers and merchandisers. Its detailed information and data will also be of great interest to researchers and postgraduate students across clothing technology, product design, fashion and textiles. Reviews methods and techniques in anthropometry, sizing system development, and applications in clothing design. Enables users to understand and utilize detailed anthropometric data. Covers sizing and fit for particular uses, including protective clothing, compression garments, intimate apparel and footwear.

**Fashion Industry**-Riccardo Beltramo 2020-02-05

Fashion is a lot more than providing an answer to primary needs. It is a way of communication, of distinction, of proclaiming a unique taste and expressing the belonging to a group. Sometimes to an exclusive group. Currently, the fashion industry is moving towards hyperspace, to a multidimensional world that is springing from the integration of smart textiles and wearable technologies. It is far beyond aesthetics. New forms of creation, production and consumption create an environment that offers an almost infinite scope of experiment with astonishing forms and expressions. There are also surprising contrasts and challenges: a new life for natural fibers, sustainable fabrics and dyeing technologies, rediscovered by eco-fashion, and “artificial apparel,” made of wearable electronic components. How is this revolution affecting the strategies of the fashion industry?

**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 underlying this technology and how it is currently being successfully implemented into textile products.
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

Improving Working Conditions and Productivity in the Garment Industry: Juan Carlos Hiba 1998 Aiming to help with the productivity and efficiency of garment-producing enterprises, this book suggests practical ideas for the design, materials, safety, welfare and maintenance of the business. It also presents procedures and examples for identifying and assessing productivity.