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Design of Clothing Manufacturing Processes - Jelka Gerak - 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, and technology, and management to help the clothing industry to compete more effectively. Design of clothing manufacturing processes reviews key issues in the design of clothing production from design and pattern making to manufacture. Overviews the management of clothing production and material quality requirements continues developing knowledge on how to design better products and services, we need to design better clothing manufacturing processes grounded in science, and technology, and management to help the clothing industry to compete more effectively. Design of clothing manufacturing processes reviews key issues in the design of clothing production from design and pattern making to manufacture. Overviews the management of clothing production and material quality requirements.

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Design of Clothing Manufacturing Processes: A Systematic Approach to Planning Scheduling and Control Woodhead Publishing Series In Textiles

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Textile Manufacturing Processes - Faheem Uddin - 2018-08-28
Textile Manufacturing Processes is a guide to the garment industry for apparel professionals. The book addresses the technical aspects in each section of garment manufacturing process with considered quality aspects. This book also dispatch of goods. Further, engineering practices followed in an apparel industry for production planning and control, line balancing, implementation of industrial automation 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, 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.

Automation in Garment Manufacturing - Rajibkumar 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 3D scanning, body design and prototyping. Part Two covers automation in garment production, from handling, spreading and cutting, through to finishing and pressuring techniques. Final chapters discuss advanced tools for assessing performance of garment manufacturing processes, efficiency and quality of the process, and final manufacturing products. Automation in Garment Manufacturing is also ideal for academics engaged in research on textile science and technology. Delivers theoretical and practical guidance on automated processes 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 pressuring techniques. Final chapters discuss advanced tools for assessing performance of garment manufacturing processes, efficiency and quality of the process, and final manufacturing products.

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Circular Economy in Textiles and Apparel: Processing, Manufacturing, and Design is the first book to provide guidance on this subject, presenting the tools for textile industry professionals to improve and optimize their processes while following an environmentally friendly design ethos. The book explores sustainable design and manufacturing processes and examines the informal-sector work proliferating both in developing and developed countries. Child labor persists within this sector despite growing pressure to halt it. Fashion companies are justifiably concerned about the impact of their actions on the environment and the neglect of social issues in their supply chains. They need to ensure that all aspects of their operations are ethical and environmentally friendly.

Sustainability in Fashion and Textiles - Miguel Angel Gardetti - 2017-08-06

There is no doubt that the global textile and clothing industry is doing a lot to meet the challenge of sustainability. New initiatives are launched on a regular basis and, thanks to more and more consumers demanding a green and ethical fashion, the pressure on the companies to adopt these strategies increases. In 2012, when the world celebrated the United Nations’ International Year of Sustainable Tourism for all, it became clear that the textile industry is not immune to this trend. This is particularly true for the fashion industry, which is an industry that has an impact on a number of social and environmental issues such as sustainability and business management in textile and fashion companies; value chain management; use of materials; sustainable production processes; fashion, needs and consumption; disposal; and innovation and design.

Circular Economy in Textiles and Apparel - Subramanian Senthilkumar Mathas - 2018-11-05

The circular economy is a key enabler for sustainable development and a strategy for overcoming the future challenges which lie ahead. In the fast fashion industry, this approach has the potential to transform the way we make and use clothes.

Lean Tools in Apparel Manufacturing - Prabir Jana - 2021-02-17

Lean techniques have the potential to improve production efficiency and reduce waste in the apparel manufacturing sector, leading to increased profits and improved customer satisfaction. This book provides an overview of Lean tools and their application in apparel manufacturing, with case studies and practical examples to illustrate how these tools can be used in real-world settings.
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. Veronica Manlow considers the broader signifi-
cance of fashion in society, the creative process of fashion design, and how fashion unfolds in an organizational 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 based on the interaction of business, design, and marketing. This book tells the story of the transformation of fashion from a phenomenon to a business that is linked to the business model of the fashion business.
Textile-led Design for the Active Ageing Population - Jean 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 investigation on 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 considers how fashion designers and the age-related anatomical and physiological changes that designers should consider. Part II 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 research on textiles for clothing to the active ageing population, and provides the practical advice needed by designers to meet their needs in designing and manufacturing issues, including ways of accommodating physiological changes with age and the use of wearable electronics.

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Thermal Protective Clothing for Firefighters - Gawan Song - 2016-08-27

The 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 faced by firefighters when they work in fires are also analyzed. Furthermore, the development of various high performance fibers and fabrics for thermal protective clothing is discussed. The methods and existing standards to evaluate the thermal protective and physiological comfort performances of the fabric 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 complete test levels of fire, 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 evaluated. Finally, various key issues related to thermal protective clothing are addressed to guide the future research in the field of thermal protective clothing. Engineers working to develop high performance thermal protective clothing that can enhance the protection, safety, and comfort of firefighters. Provides a helpful guide to the successful specification and design of high performance protective clothing to meet the highest standards of performance and comfort for firefighters. This book offers a broad review of thermal protective 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 fabric and clothing.

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Bioprocess Modeling, Simulation and Control of the Dyeing Process - R. Shames - 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, reduce waste, save on water and energy, and produce high quality fabrics and garments. The book reviews the state of the art in dyeing modeling, simulation and control, and reviews 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. Part III summarises the wealth of research on textile manufacturing and manufacturing issues, including ways of accommodating physiological changes with age and the use of wearable electronics.

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Fashion Industry - Ricardo Baltarino - 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 personality of the consumer. Fashion is a language of communication, of forms and expressions. There are also surprising contrasts and challenges: a new life for natural fibers, sustainable fabrics and dyeing techniques, rediscovered by eco-fashion designers and "artificial apparel," made of wearable electronic components. How is this revolution affecting the strategies of the fashion industry? What are the key drivers that decision makers should consider in the ongoing transition from the integration of smart textiles and wearable technologies? It is far beyond aesthetics. New properties of smart textiles let designers experiment with astonishing forms and new types of functionality. For example, thermochromic materials can change color in response to changes in temperature. This chapter reviews 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. Part III summarises the wealth of research on textile manufacturing and manufacturing issues, including ways of accommodating physiological changes with age and the use of wearable electronics.

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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