

Bookmark File PDF Handbook  
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Production Cttz

*Handbook Of Sustainable  
Apparel Production Cttz*

A cutting room is a separate area in a clothing manufacturer where garment components are cut out. The accuracy and efficiency of

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cutting room operations is critical to all subsequent operations and to final garment quality. Drawing on the author's extensive experience, Industrial cutting of textile materials summarises good practice in cutting room operations. After an

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introduction, the author reviews initial steps such as unloading, sorting and quality control of materials. She then discusses subsequent operations from lay planning and marker making, through manual and automated

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spreading and cutting, to fusing of cut components and final work operations such as sorting cut components for sewing. Dr Vi?umstone-Nemes also discusses marker making, spreading and cutting of more intricate fabrics

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such as striped fabrics and fabrics with check, motif and border patterns, narrow lace and pile fabrics. Industrial cutting of textile materials provides essential knowledge about cutting processes to designers, technologists, and

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managers to help in improving product quality and in controlling production processes effectively. Summarises good practice in cutting room operations Reviews initial steps such as unloading, sorting and quality control of

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materials and discusses  
subsequent operations from lay  
planning and marker making to  
fusing of cut components and final  
work operations Includes coverage  
of more intricate fabrics such as  
striped fabrics and fabrics with

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check, motif and border patterns,  
narrow lace and pile fabrics

Urbanization, industrialization, and unethical agricultural practices have considerably negative effects on the environment, flora, fauna, and the health and safety of humanity.



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Over the last decade, green chemistry research has focused on discovering and utilizing safer, more environmentally friendly processes to synthesize products like organic compounds, inorganic compounds, medicines, proteins,

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enzymes, and food supplements. These green processes exist in other interdisciplinary fields of science and technology, like chemistry, physics, biology, and biotechnology, Still the majority of processes in these fields use and

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generate toxic raw materials, resulting in techniques and byproducts which damage the environment. Green chemistry principles, alternatively, consider preventing waste generation altogether, the atom economy,

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using less toxic raw materials and solvents, and opting for reducing environmentally damaging byproducts through energy efficiency. Green chemistry is, therefore, the most important field relating to the sustainable

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development of resources without harmfully impacting the environment. This book provides in-depth research on the use of green chemistry principles for a number of applications.

Advances in 3D Textiles presents

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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,

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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

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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,



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braided, and non-woven textiles,  
and the main uses of three-  
dimensional textiles Covers their  
structures, properties, and uses  
within the textiles industry

The clothing industry employs 25  
million people globally contributing

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to many livelihoods and the prosperity of communities, to women's independence, and the establishment of significant infrastructures in poorer countries. Yet the fashion industry is also a significant contributor to the

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degradation of natural systems,  
with the associated environmental  
footprint of clothing high in  
comparison with other products.

Routledge Handbook of  
Sustainability and Fashion  
recognizes the complexity of

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aligning fashion with sustainability. It explores fashion and sustainability at the levels of products, processes, and paradigms and takes a truly multi-disciplinary approach to critically question and suggest creative

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responses to issues of: • Fashion in a post-growth society • Fashion, diversity and equity • Fashion, fluidity and balance across natural, social and economic systems This handbook is a unique resource for a wide range of scholars and

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students in the social sciences, arts  
and humanities interested in  
sustainability and fashion.

Sourcing Natural Raw Materials  
Designing Apparel for Consumers  
Optimizing Decision Making in the  
Apparel Supply Chain Using

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Artificial Intelligence (AI)

Textile-led Design for the Active  
Ageing Population

Textiles and Clothing Sustainability

Information Systems for the

Fashion and Apparel Industry

*Sustainable and*

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*Nonconventional  
Construction Materials Using  
Inorganic Bonded Fiber  
Composites presents a  
concise overview of non-  
conventional construction  
materials with a strong focus*



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*on alternative inorganic  
bonded fiber composites and  
their applications as  
construction components. It  
outlines the processing and  
characterization of non-  
conventional cementitious*

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*composites, which will be of great benefit to both academic and industrial professionals interested in research, development, and innovation on inorganic bonded fiber composites.*

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*The book gives a comprehensive review of the innovative research associated with building components based on inorganic bonded composites. Exploring both*

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*natural fibers as reinforcing elements and alternative inorganic binders based on agricultural and industrial wastes, this book also considers the performance and applications of fibrous*

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*composites as construction materials and components. Dedicated to analyzing recent developments in inorganic fiber composites research Discusses the broader subjects of*

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*processing, characterization,  
performance, and  
applications of non-  
conventional construction  
materials  
Colour and appearance  
perceptions are very*

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*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*

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*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*



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*instrumentation used to measure colour. Chapters detail the characteristics of light sources and object colour and appearance attributes. They encompass the complexities of human*

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*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*

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*well as fluorescence and  
whiteness. Principles of  
Colour Appearance and  
Measurement is a  
comprehensive resource for  
designers, colour  
technologists, colour quality*

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*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*

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*viewers perceive colour and  
how objects appear to them  
Reviews the major types of  
instrumentation used to  
measure colour  
Despite the world's aging  
population, suitable clothing*

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*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,*

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*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*

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*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*



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*the older population, including effective communication with designers and the age-related anatomical and physiological changes that designs should consider. Part*

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*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*

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*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*

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*investigated and appropriate  
apparel designed to meet  
their needs Examines design  
and manufacturing issues,  
including ways of  
accommodating  
physiological changes with*

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*age and the use of wearable  
electronics*

*Denim: Manufacture,  
Finishing and Applications  
provides exhaustive  
coverage of denim  
manufacture, jeans washing,*

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*novel applications and environmental impacts. It also contains information on the history and social influence of denim, and includes the details relevant to the fashion and apparel*

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*industry. The topics covered are comprehensive with contributions from experts the world over, and the book is offered as an authentic reference book for any relevant information on*

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*denim. Provides a thorough  
review of denim  
manufacturing and jeans  
washing technologies  
Includes details relevant to  
the fashion and apparel  
industry while maintaining a*



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*high level of technological  
content on spinning, dyeing,  
weaving, garments, washing,  
finishing and other  
applications Includes several  
contributions from industry  
experts*

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*Innovative Jacquard Textile  
Design Using Digital  
Technologies  
Values, Design, Production  
and Consumption  
Garment Manufacturing  
Technology*

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*Bringing the Numbers to Life  
Biotextiles as Medical  
Implants*

*Industrial Case Studies*

***Environmental Carbon***

***Footprints: Industrial Case***

***Studies provides a wide range of***

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***industrial case-studies,  
beginning with textiles, energy  
systems and bio-fuels. Each  
footprint is associated with  
background information,  
scientific consensus and the  
reason behind its invention,***

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***methodological framework,  
assessment checklist,  
calculation tool/technique,  
applications, challenges and  
limitations. More importantly,  
applications of each  
indicator/framework in various***

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***industrial sectors and their associated challenges are presented. As case studies are the most flexible of all research designs, this book allows researchers to retain the holistic characteristics of real-life events***

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***while investigating empirical events. Includes case studies from various industries, such as textiles, energy systems and conventional and bio-fuels Provides the calculation tool/technique, applications,***

***challenges and limitations for  
determining carbon footprints on  
an industry by industry basis  
Presents the background  
information, scientific consensus  
and reason behind each case  
study***



***Protective Textiles from Natural Resources provides systematic coverage of the fundamentals, production methods, processing techniques, characterization techniques, properties and applications of natural textile***

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***products for protective purposes. The subject of this book is an important kind of technical textile designed to protect the wearer from injuries, illness and death. They offer enhanced protection against***

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***phenomena including heat, cold, flame, chemical, biological, nuclear agents, radiation, disaster and even ballistics. As no single type of clothing can be adequate for all kinds of protection, extensive research is***

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***carried out to develop protective clothing for specialized civilian and military applications. The latest research on the use of natural fibres in PPE is also covered, which could make a significant contribution to the***

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***fight against the spread of COVID-19. This comprehensive guide explores a wide variety of themes from material processing and design to finished products, through protection against specific hazards to specific***

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***applications, including all significant new developments on natural materials for protective textiles. Explains the latest technologies related to fibre extraction from natural sources, chemical treatments, weave***

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***constructions, fabric finishes and coatings. Includes the latest research on natural fibers in personal protective equipment (PPE) to protect wearers from bacterial and viral contamination. Explains the state of the art in***

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***testing methods and standards  
for protective clothing.***

***Circular Economy in Textiles and  
Apparel: Processing,  
Manufacturing, and Design is the  
first book to provide guidance on  
this subject, presenting the tools***



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***for implementing this paradigm and their impact on textile production methods. Sustainable business strategies are also covered, as are new design methods that can help in the reduction of waste. Drawing on***

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***contributions from leading experts in industry and academia, this book covers every aspect of this increasingly important subject and speculates on future developments. Provides case studies on the***

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***circular economy in operation in the textiles industry Identifies challenges to implementation and areas where more research is needed Draws on both industrial innovation and academic research to explain an***

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***emerging topic with the potential  
to entirely change the way we  
make and use clothing***

***The era of mass manufacturing  
of clothing and other textile  
products is coming to an end;  
what is emerging is a post-***

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***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***

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***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***

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***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***

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***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***

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***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***

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***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***

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***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***

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***Manufacturing Processes  
Environmental Carbon  
Footprints  
Sustainable Green Chemical  
Processes and their Allied  
Applications  
Sustainable Fashion***

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***Management***

***Advances in 3D Textiles***

***Handbook of Sustainable Luxury  
Textiles and Fashion***

***This book provides a holistic  
and accessible approach to  
sustainable fashion***

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***management. It offers an interdisciplinary and practical outlook, combining theory with practical application from a management perspective and underpinned by the Sustainable Development***



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***Goals throughout. The book helps students to gain a better understanding of what sustainable fashion is and how it is implemented across the fashion industry, through business model innovations,***

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***innovative designs, new technology and digital approaches, and material innovations. Global case studies are employed throughout each chapter, including fashion companies***

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***and events of all sizes,  
alongside other pedagogical  
features to aid learning,  
including key learning points,  
chapter objectives, and  
textboxes explaining key  
terminology. This is an***

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***essential textbook for those  
investigating sustainable  
fashion, whether from a design  
or management perspective,  
providing the knowledge and  
tools for a future career. It is  
designed to serve Fashion***

***Business and Management,  
Fashion Marketing, Fashion  
Buying and Merchandising and  
Fashion Technology courses, at  
all levels, and will also be  
valuable reading for those  
already working within the***

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***fashion industry and studying  
for professional qualifications.  
Online resources include  
chapter-by-chapter PowerPoint  
slides and a test bank.  
Advances in Women's Intimate  
Apparel Technology discusses***

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***the design and manufacture of intimate apparel and how the industry is increasingly embracing novel materials, new technologies, and innovations in sizing and fit. The book reviews the ways in***

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***which new materials and methods are improving the range, function, and quality of intimate apparel, with particular focus on brassiere design. Part One introduces the advanced materials used***



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***for intimate apparel, including novel fabrics and dyes and finishes, along with materials for wiring and embellishments. Part Two discusses the role of seamless technology in intimate apparel production,***

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***covering lamination, moulding,  
and seamless knitting. Finally,  
Part Three reviews advances in  
design, fit, and performance.  
Provides systematic and  
comprehensive coverage on  
key trends in intimate apparel***

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***technology Presents chapters that follow a coherent sequence, beginning with advanced materials, then discussing new manufacturing techniques, and finishing with coverage of performance and***

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***fit“/li> Focuses on the needs of the apparel industry, covering materials, manufacturing, and design aspects Written by distinguished author and professor Winnie Yu who is the Director of the ACE Style***

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***Institute of Intimate Apparel  
at Hong Kong Polytechnic  
University***

***The use of mathematical  
modelling and computer  
simulation can vastly improve  
the quality, efficiency and***

***economic success of textile technology. Simulation in textile technology provides a comprehensive review of the key principles, applications and benefits of modelling for textile production. After an***

***introduction to modelling and simulation, Simulation in textile technology goes on to review the principles and applications of the main types of model. The book first discusses neural networks and***

***their applications before going on to explore evolutionary methods and fuzzy logic. It then considers computational fluid dynamics and finite element modelling. The modelling of fibrous structures***



***and yarns are considered in the following chapters, along with wound packages, woven, braided and knitted structures. The book concludes by reviewing the simulation of textile processes and***

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***machinery. With its distinguished editor and team of expert contributors, Simulation in textile technology is a valuable reference tool for all those involved in both developing***

***models of textile processes and those applying them to improve process efficiency and product quality. Provides a comprehensive review of the key principles, applications and benefits of modelling for***

***textile production Discusses  
neural networks and their  
applications before going on to  
explore evolutionary methods  
and fuzzy logic Considers the  
modelling of fibrous structures  
and yarns, along with wound***

***packages, woven, braided and knitted structures***

***Textiles play a vital role in the manufacture of various medical devices, including the replacement of diseased, injured or non-functioning***

***organs within the body.***

***Biotextiles as medical implants provides an invaluable single source of information on the main types of textile materials and products used for medical implants. The first part of the***

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***book focuses on polymers,  
fibers and textile technologies,  
and these chapters discuss the  
manufacture, sterilization,  
properties and types of  
biotextiles used for medical  
applications, including***

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***nanofibers, resorbable  
polymers and shaped  
biotextiles. The chapters in  
part two provide a  
comprehensive discussion of a  
range of different clinical  
applications of biotextiles,***



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***including surgical sutures, arterial prostheses, stent grafts, percutaneous heart valves and drug delivery systems. This book provides a concise review of the technologies, properties and***

***types of biotextiles used as medical devices. In addition, it addresses the biological dimension of how to design devices for different clinical applications, providing an invaluable reference for***

***biomedical engineers of  
medical textiles, quality  
control and risk assessment  
specialists, as well as  
managers of regulatory affairs.  
The subject matter will also be  
of interest to professionals***

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***within the healthcare system including surgeons, nurses, therapists, sourcing and purchasing agents, researchers and students in different disciplines. Provides an invaluable single source of***

***information on the main types  
of textile materials and  
products used for medical  
implants Addresses the  
technologies used and  
discusses the manufacture,  
properties and types of***

***biotextiles Examines  
applications of biotextiles as  
medical implants, including  
drug delivery systems and  
stent grafts and percutaneous  
heart valves  
From Production to Retail***

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***Volume 1***

***Theory and Applications***

***Applications of Biotechnology  
for Sustainable Textile***

***Production***

***Advances in Military Textiles  
and Personal Equipment***

## ***Ink Jet Textile Printing***

*Textile products are produced, distributed, sold and used worldwide.*

*A quantitative assessment of sustainability in the textile manufacturing chain is therefore extremely important. The Handbook of sustainable textile production is a*



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*compilation of technical, economical, and environmental data from the various processes in this chain. This authoritative reference work provides a detailed study of the sustainable development of textiles. The book opens with an introduction to the topic. Chapters define the*

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*principles of sustainability and its use in legislation and industry before going on to investigate the impact of textiles throughout the supply chain, starting with the raw fibre through to fabric production, consumption and disposal. Textile process technology and methods for specifying quality*

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*and functions in textile products in order to reduce textile waste and improve sustainability are also examined. A series of Life Cycle Assessments (LCAs) carried out in the European textile industry are investigated. These studies comprise a range of processes from cotton*

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*growing, spinning and weaving to the recycling of textiles. The book concludes with a discussion on sustainable textiles from a product development and marketing perspective. With an internationally recognised expert author, the Handbook of sustainable textile*

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*production is a valuable reference tool for academics and students as well as for companies across the textile supply chain concerned with developing a sustainable environment, from fibre manufactures and designers to regulatory bodies. A detailed,*

# Bookmark File PDF Handbook Of Sustainable Apparel Production Cttz

*quantitative assessment of the sustainable development of textiles Provides a useful compilation of technical, economical, and environmental data from various processes in the textile manufacturing chain Chapters define the principles of sustainability and its*

# Bookmark File PDF Handbook Of Sustainable Apparel Production Cttz

*use in legislation and industry, textile process technology, the impact of textiles throughout the supply chain, raw fibre through to fabric production, consumption and disposal*

*Complex raw materials and manufacturing processes mean the*

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*textile industry is particularly dependent on good process control to produce high and consistent product quality. Monitoring and controlling process variables during the textile manufacturing process also minimises waste, costs and environmental impact. Process*



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*control in textile manufacturing provides an important overview of the fundamentals and applications of process control methods. Part one introduces key issues associated with process control and principles of control systems in textile manufacturing. Testing and*

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*statistical quality control are also discussed before part two goes on to consider control in fibre production and yarn manufacture. Chapters review process and quality control in natural and synthetic textile fibre cultivation, blowroom, carding, drawing and combing. Process*

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*control in ring and rotor spinning and maintenance of yarn spinning machines are also discussed. Finally part three explores process control in the manufacture of knitted, woven, nonwoven textiles and colouration and finishing, with a final discussion of process control in apparel*

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*manufacturing. With its distinguished editors and international team of expert contributors, Process control in textile manufacturing is an essential guide for textile engineers and manufacturers involved in the processing of textiles, as well as*

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*academic researchers in this field.  
Provides an important overview of  
the fundamentals and applications of  
process control methods Discusses  
key issues associated with process  
control and principles of control  
systems in textile manufacturing,  
before addressing testing and*

# Bookmark File PDF Handbook Of Sustainable Apparel Production Cttz

*statistical quality control Explores  
process control in the manufacture of  
knitted, woven, nonwoven textiles  
and colouration and finishing, with a  
discussion on process control in  
apparel manufacturing*

*Sustainability is an issue that  
increasingly concerns all those*

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*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*

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*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*



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*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*

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*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*

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*The right clothing and equipment is of vital importance to the survival and effectiveness of military personnel. Advances in military textiles and personal equipment summarises key research on the design, manufacture and applications of military textiles. Beginning with*

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*an overview of design issues, part one explores anthropometric methods, psychological, colour and camouflage issues related to the successful design of military textiles. Materials and design issues in military helmets, footwear and hand wear are also reviewed. Part two*

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*goes on to consider applications of particular types of military clothing and equipment, including optimisation of body armour design, high performance ballistic protection using polymer nanocomposite technology as well as advances in materials and modelling of chemical,*

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*biological, radiological and nuclear protective clothing. Finally, Advances in military textiles and personal equipment looks specifically at designing load carriage and advanced hydration systems for military personnel. With its distinguished editor and*

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*international team of expert contributors, Advances in military textiles and personal equipment is an invaluable resource for all those working in the design, manufacture and production of military clothing and equipment, as well as for the defence industry itself. Summarises*

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*key research on the design,  
manufacture and applications of  
military textiles Begins with an  
overview of the issues related to the  
successful design of military textiles  
and reviews materials and design  
issues in military helmets, footwear  
and hand wear Sections consider*



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*applications of particular types of military clothing and equipment, including optimisation of body armour design, and discusses advances in materials and modelling of chemical, biological, radiological and nuclear protective clothing*  
*Manufacture, Finishing and*

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*Applications*

*Sustainable and Nonconventional  
Construction Materials using  
Inorganic Bonded Fiber Composites  
Principles of Colour and Appearance  
Measurement  
Medical Textile Materials  
Sustainability in Fashion and Textiles*

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*Data, Statistics, and Useful Numbers  
for Environmental Sustainability*

Applications of Biotechnology for  
Sustainable Textile Production is a  
practical guide to the fundamentals,  
methods, and future prospects for  
sustainable biotechnological and  
nanobiotechnological approaches to textile

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production. The textile industry is highly motivated to reduce its use of natural resources, reduce waste, and cost.

Processes such as dyeing, printing and finishing fabrics traditionally require a lot of water and can produce hazardous wastes as a by-product. In order to help improve these processes, this book

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evaluates different technologies, comparing them as ways of saving water, energy, material waste, and time, in addition to the reduction of wastewater and sludge. Technologies investigated include enzymatic treatments, ultrasonic treatments, advanced cotton fiber pre-treatment to increase dye receptivity, nano-

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biotechnology, plasma technology, and foam technology in the finishing process. Health risk assessments and complications resulting from usage of chemicals and other traditional processing technologies are also examined. Addresses all five main stages of textile processing, including pre-treatment, dyeing, finishing, drying, and

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quality control Provides an overview of the techno-economic context of the modern textile industry, explaining where sustainability fits with other priorities Includes case studies throughout showing how these methods can be used for sustainable textile production With the rapid expansion of ink jet

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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



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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

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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

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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

This book is part of a five-volume set that explores sustainability in textile industry practices globally. Case studies are

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provided that cover the theoretical and practical implications of sustainable textile issues, including environmental footprints of textile manufacturing, consumer behavior, eco-design in clothing and apparels, supply chain sustainability, the chemistry of textile manufacturing, waste management and textile economics. The

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set will be of interest to researchers, engineers, industrialists, R&D managers and students working in textile chemistry, economics, materials science, and sustainable consumption and production. This volume comprehensively covers the various sustainable natural materials used in textiles that originate from raw

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materials sourcing. The book discusses agricultural production systems and standards for the development of sustainable textile fibers, the effects of chemical surface modification methods on the properties of textile fibers, and how antibacterial and antifungal textiles can be manufactured using natural resources.

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Medical Textile Materials provides the latest information on technical textiles and how they have found a wide range of medical applications, from wound dressings and sutures, to implants and tissue scaffolds. This book offers a systematic review of the manufacture, properties, and applications of these

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technical textiles. After a brief introduction to the human body, the book gives an overview of medical textile products and the processes used to manufacture them. Subsequent chapters cover superabsorbent textiles, functional wound dressings, bandages, sutures, implants, and other important medical textile technologies.



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Biocompatibility testing and regulatory control are then addressed, and the book finishes with a review of research and development strategy for medical textile products. Provides systematic and comprehensive coverage of the manufacture, properties, and applications of medical textile materials Covers recent

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developments in medical textiles, including antimicrobial dressings, drug-releasing materials, and superabsorbent textiles

Written by a highly knowledgeable author with extensive experience in industry and academia

Simulation in Textile Technology

Sustainable Textile Chemical Processes

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Advances in Women ' s Intimate Apparel  
Technology

Modern Design and Approaches

Circular Economy in Textiles and Apparel

Anthropometry, Apparel Sizing and  
Design

This book details the crux of

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green fashion, addressing various environmental aspects and discussing the importance of sustainable fashion in the apparel industry. It addresses various important topics

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such as Relationship  
marketing in green fashion,  
Animal Ethics and Welfare  
in the Fashion and Lifestyle  
Industries, Green Flame  
retardants, etc.

A hot-button societal issue,

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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

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Apparel Production covers all aspects of sustainable apparel production including the raw materials employed, sustainable manufacturing processes, and environmental as well as

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social assessments of apparel production. The book highlights the environmental and social impacts of apparel and its assessment. It explores the complexities involved in



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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

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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

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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

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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

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gives you a framework for moving towards sustainability.

Jacquard fabrics feature intricately woven designs. Through the use of digital technology, new design

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concepts, principles and methods for producing jacquard fabrics have been established, facilitating the creation of a range of novel effects. Innovative jacquard textile design using digital

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technologies is a unique  
guide to the fundamental  
design principles,  
techniques and applications  
resulting from this  
important development.  
Beginning with an

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introduction to jacquard textile design, the book goes on to give an overview of the development of jacquard fabrics and textile design methods. The principles and methods of digital jacquard



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textile design are considered, followed by a chapter on structural digital design. Subsequent chapters cover the digital design of colourless and colourful jacquard textiles, and the

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use of novel simulative effects, shot effects and double-face effects in jacquard textiles. A review of the applications of digitally designed jacquard textiles is then presented

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before the book concludes with a discussion of current issues and future trends in digital jacquard textile design. With its distinguished authors, Innovative jacquard textile

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design using digital technologies is an authoritative guide for all those looking to employ this exciting technology in their work, including designers and product developers in

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the textile, interior and apparel industries, and academics interested in this field. Provides a unique guide to the fundamental design principles, techniques and applications

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of jacquard textile design  
Covers structural digital  
design, digital design of  
colourless and colourful  
jacquard textiles, simulative  
effects, shot effects and  
double-face effects Includes

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Production Cttz  
a comprehensive discussion  
of current issues and future  
trends in digital jacquard  
textile design

Information Systems for the  
Fashion and Apparel  
Industry brings together

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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-



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growing and highly influential. Computerized information systems are essential to support fashion business operations and recent developments in social media, mobile

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commerce models, radio frequency identification (RFID) technologies, and ERP systems are all driving innovative business measures in the industry. After an introductory

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chapter outlining key  
decision points and  
information requirements in  
fast fashion supply chains,  
Part One focuses on the  
principles of fashion  
information systems, with

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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

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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

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intelligent forecasting and procurement systems, and manage inventory and returns. Provides systematic and comprehensive coverage of information systems for the fashion and

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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

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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



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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

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procurement systems, and  
manage inventory and  
returns

Process Control in Textile  
Manufacturing

Sustainable Apparel

Artisanship and Value

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Addition

Sustainability in the Textile  
and Apparel Industries  
Green Chemistry for  
Sustainable Textiles  
Production, Processing and  
Recycling

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*Practitioners in apparel  
manufacturing and  
retailing enterprises in  
the fashion industry,  
ranging from senior to  
front line management,  
constantly face complex*

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*and critical decisions.  
There has been growing  
interest in the use of  
artificial intelligence  
(AI) techniques to  
enhance this process,  
and a number of AI*

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*techniques have already  
been successfully  
applied to apparel  
production and  
retailing. Optimizing  
decision making in the  
apparel supply chain*

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*using artificial  
intelligence (AI): From  
production to retail  
provides detailed  
coverage of these  
techniques, outlining  
how they are used to*

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*assist decision makers  
in tackling key supply  
chain problems. Key  
decision points in the  
apparel supply chain and  
the fundamentals of  
artificial intelligence*



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*techniques are the focus  
of the opening chapters,  
before the book proceeds  
to discuss the use of  
neural networks, genetic  
algorithms, fuzzy set  
theory and extreme*

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*learning machines for  
intelligent sales  
forecasting and  
intelligent product  
cross-selling systems.  
Helps the reader gain an  
understanding of the key*

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*decision points in the  
apparel supply chain*

*Discusses the*

*fundamentals of*

*artificial intelligence*

*techniques for apparel*

*management techniques*

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*Considers the use of  
neural networks in  
selecting the location  
of apparel manufacturing  
plants*

*This book highlights the  
challenges in*

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*sustainable wet  
processing of textiles,  
natural dyes, enzymatic  
textiles and sustainable  
textile finishes.*

*Textile industry is  
known for its chemical*

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*processing issues and many NGO's are behind the textile sector to streamline its chemical processing, which is the black face of clothing and fashion sector.*

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*Sustainable textile  
chemical processes are  
crucial for attaining  
sustainability in the  
clothing sector. Seven  
comprehensive chapters  
are aimed to highlight*

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*these issues in the  
book.*

*Sustainability in Denim  
provides the latest  
information on  
sustainable fabrics and  
practices. From cotton*



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*farming, to manufacture  
and end of life  
disposal, denim has  
extensive effects on the  
environment, inclusive  
of water consumption and  
contamination,*

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*destruction of large-scale ecosystems and transportation pollution. Additionally, recent developments in the manufacture of denim, such as the use*

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*of textiles, including elastane and polyester, have led to limitations in the high end recycling of denim. This book includes an introduction covering*

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Production Cttz

*the history, manufacture  
and lifecycle of denim.*

*It deals with the  
sustainability aspects  
of denim by addressing  
three important pillars  
of sustainability, the*

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*environmental, social  
and economic aspects,  
that when combined,  
present a unique  
approach in comparison  
to other books on the  
topic. The book*

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*primarily uses case studies to examine sustainability challenges throughout the denim lifecycle, and to evaluate new green initiatives and*

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*recycling processes. It  
will be of great use to  
industry professionals,  
sustainability managers,  
textile industry  
researchers and denim  
manufacturers. Reviews*

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*and studies denim from a  
sustainability  
perspective, addressing  
its major environmental,  
social and economic  
impacts Provides the  
reader with a*



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*fundamental knowledge of  
the history, manufacture  
and lifecycle of denim,  
thus enabling a holistic  
view of denim  
sustainability Presents  
new green initiatives*

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*for the processing and  
recycling of denim  
products for promotion  
and use amongst  
sustainability groups  
Given its importance for  
consumer satisfaction*

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*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*

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*research and how it can  
be used in apparel  
design. This book  
reviews how these  
developments are  
affecting clothing  
design for different*

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*groups of consumers.*

*Part one identifies  
various aspects of body  
shape, size, volume and  
the psychological  
aspects of designing  
apparel. This section*

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*covers topics such as  
body shape and its  
influence on apparel  
size and consumer  
choices, sizing systems,  
body shape and weight  
distribution (with a*

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*discussion of the Body  
Volume Index (BVI)  
versus the Body Mass  
Index (BMI)), and the  
psychological and  
sociological factors  
influencing consumers'*

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*choice of apparel. Part  
two outlines the  
challenges in  
understanding the sizing  
and shape requirements  
and choices of  
particular customer*



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*groups. This section  
discusses apparel  
designed for infants and  
children, older  
consumers, overweight  
and obese consumers,  
plus size Black and*

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*Latino women, apparel  
design for Asian and  
Caucasian ethnic groups,  
sizing requirements for  
male apparel, maternity  
apparel, intimate  
apparel for varying body*

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*shapes, and the challenges of designing headwear to fit the size and shape of Western and Asian populations.*

*Designing apparel for consumers provides an*

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*invaluable reference for  
apparel designers,  
manufacturers, and R&D  
managers in the textile  
industry, as well as  
postgraduate students  
and academic researchers*

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*in textiles. Reviews  
developments affecting  
clothing design for  
different groups of  
consumers Identifies  
various aspects of body  
shape, size, volume and*

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*the psychological  
aspects of designing  
apparel Outlines the  
challenges in  
understanding sizing and  
shape requirements and  
choices of particular*

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*customer groups*

*Routledge Handbook of  
Sustainability and  
Fashion*

*Handbook of Sustainable  
Textile Production  
Volume 2*

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*Green Fashion*

*Denim*

*A Systematic Approach to  
Planning, Scheduling and  
Control*

There is no doubt that  
the textile industry -



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the production of clothing, fabrics, thread, fibre and related products – plays a significant part in the global economy. It also frequently operates

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with disregard to its environmental and social impacts. The textile industry uses large quantities of water and outputs large quantities of waste. As for social

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aspects, many unskilled jobs have disappeared in regions that rely heavily on these industries. Another serious and still unresolved problem is

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the flexibility textile industry companies claim to need. Faced with fierce international competition, they are increasingly unable to offer job security. This

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is without even considering the informal-sector work proliferating both in developing and developed countries. Child labour persists within this

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sector despite growing pressure to halt it. Fashion demands continuous consumption. In seeking to own the latest trends consumers quickly come to regard

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their existing garments as inferior, if not useless. "Old" items become unwanted as quickly as new ones come into demand. This tendency towards

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disposability results in the increased use of resources and thus the accelerated accumulation of waste. It is obvious to many that current fashion industry



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practices are in direct competition with sustainability objectives; yet this is frequently overlooked as a pressing concern. It is, however, becoming

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apparent that there are social and ecological consequences to the current operation of the fashion industry: sustainability in the sector has been gaining

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attention in recent years from those who believe that it should be held accountable for the pressure it places on the individual, as well as its contribution

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to increases in  
consumption and waste  
disposal. This book takes  
a wide-screen approach  
to the topic, covering,  
among other issues:  
sustainability and

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business management in  
textile and fashion  
companies; value chain  
management; use of  
materials; sustainable  
production processes;  
fashion, needs and

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consumption; disposal;  
and innovation and  
design. The book will be  
essential reading for  
researchers and  
practitioners in the  
global fashion business.

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One of the greatest challenges for the apparel industry is to produce garments that fit customers properly. Anthropometry, Apparel Sizing and Design

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addresses the need for improved characterization of our populations in order to tailor garments according to size, weight, and shape of



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consumers. This book reviews techniques in anthropometry, sizing system developments, and their applications to clothing design. Part one considers a range of

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anthropometric methods.  
The text discusses the  
range of sizing systems,  
including data mining  
techniques, useful for  
bridging the gap between  
ergonomists and

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designers. Chapters  
examine three-  
dimensional  
anthropometric methods  
and multivariate and  
bivariate analysis for  
identifying key body

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dimensions. Part two then explains how to analyze anthropometric data to develop appropriate sizing systems. Here, the book discusses classification

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and clustering of human body shapes, the importance of national surveys, and using the data obtained to ensure inclusive design strategies. The book

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covers sizing systems developed for particular groups, apparel size designation, and the potential for international standardization. It

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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.

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With its distinguished editors and international contributors, this work is an essential reference, particularly due to the specific



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combination of aspects  
of anthropometry and the  
sizing of clothing, for  
researchers, garment  
designers, students, and  
manufacturers in the  
clothing and fashion

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industry. Reviews  
techniques in  
anthropometry, sizing  
system developments, and  
their applications to  
clothing design Examines  
3D anthropometric

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methods and multivariate  
and bivariate analysis  
for identifying key body  
dimensions Covers sizing  
systems developed for  
particular groups,  
apparel size

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designation, and the  
potential for  
international  
standardization

Garment Manufacturing  
Technology provides an  
insiders' look at this

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multifaceted process,  
systematically going  
from design and  
production to finishing  
and quality control. As  
technological  
improvements are

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transforming all aspects  
of garment manufacturing  
allowing manufacturers  
to meet the growing  
demand for greater  
productivity and  
flexibility, the text

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discusses necessary information on product development, production planning, and material selection. Subsequent chapters covers garment design, including

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computer-aided design (CAD), advances in spreading, cutting and sewing, and new technologies, including alternative joining techniques and seamless



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garment construction.

Garment finishing,  
quality control, and  
care-labelling are also  
presented and explored.

Provides an insiders  
look at garment

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manufacturing from  
design and production to  
finishing and quality  
control Discusses  
necessary information on  
product development,  
production planning, and

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material selection

Includes discussions of  
computer-aided design  
(CAD), advances in  
spreading, cutting and  
sewing, and new  
technologies, including

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alternative joining  
techniques and seamless  
garment construction  
Explores garment  
finishing, quality  
control, and care  
labelling

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The first volume of this handbook explores different aspects of sustainable luxury textiles and fashion, broadly based on the following topics:

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Sustainability and  
business management,  
Value chain management,  
Use of materials and  
Sustainable production  
processes.

Handbook of Sustainable

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Apparel Production  
Processing,  
Manufacturing, and  
Design  
Object Appearance,  
Colour Perception and  
Instrumental Measurement

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Handloom Sustainability  
and Culture

Industrial Cutting of  
Textile Materials

The Impact of Body Shape  
and Size

**Green Chemistry for Sustainable**

*Page 264/283*



**Textiles: Modern Design and Approaches provides a comprehensive survey of the latest methods in green chemistry for the reduction of the textile industry's environmental impact. In recent years industrial R&D**

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**has been exploring more sustainable chemicals as well as eco-friendly technologies in the textile wet processing chain, leading to a range of new techniques for sustainable textile manufacture. This book discusses**

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**and explores basic principles of green chemistry and their implementation along with other aspects of cleaner production strategies, as well as new and emerging textile technologies, providing a comprehensive**

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**reference for readers at all levels.**

**Potential benefits to industry from the techniques covered in this book include: Savings in water, energy and chemical consumption, waste minimization as well as disposal cost reduction, and**

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**production of high added value sustainable textile products to satisfy consumer demands for comfort, safety, aesthetic, and multi-functional performance properties. Innovative emerging methods are covered as well as**

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**popular current technologies,  
creating a comprehensive  
reference that facilitates  
comparisons between methods  
Evaluates the fundamental green  
chemistry principles as drivers for  
textile sustainability Explains how**

**and why to use renewable green  
chemicals in the textile wet  
processing chain**

**"Textile products are produced,  
distributed, sold and used  
worldwide. A quantitative  
assessment of sustainability in the**

**textile manufacturing chain is therefore extremely important. Sustainable textiles refer to fabrics derived from ecofriendly resources, such as sustainably grown fiber crops or recycled materials. It also refers to how**



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**these fabrics are made.**

**Production considerations include the water and energy used for manufacturing, the impact of production waste and a company's social responsibility towards its workers and the communities that**

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**surround its production facilities.**

**In addition to the health and environmental risks, adding chemical finishes to textiles can negatively affect the sustainability pathways for fabrics at their end-of-life. Natural fabrics like cotton**

**or wool, that could biodegrade post-use, are not able to do so safely if they are laden with chemicals. Added chemistries, including dyes, finishes and coatings, may impact the health of textile workers as well as**

**consumers of the final product.  
Sustainable textile production  
offers production facilities the  
possibility of a modular analysis  
of all relevant concern areas such  
as quality management, use of  
chemicals, environmental**

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**protection, environmental  
management, social responsibility  
and health and safety. Handbook  
of sustainable textile production is  
a compilation of technical,  
economical, and environmental  
data from the various processes in**

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**this chain. The book highlights the environmental and social impacts of apparel and its assessment. It explores the complexities involved in implementing sustainable measures in the massive supply chain of apparel production."**

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**Data, Statistics, and Useful  
Numbers for Environmental  
Sustainability: Bringing the  
Numbers to Life is an accessible  
reference for researchers working  
in environmental and  
sustainability fields who need to**

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**communicate the latest data and statistics to reinforce their own research or message. The book compiles the most-needed numbers into one resource and covers a variety of relevant topics, including materials, energy,**



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**environment, city planning,  
electronics, and waste. This  
handbook is clearly indexed and  
full of comprehensive tables,  
making it easy to find answers.  
Researchers in environmental and  
sustainability-related fields will**

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environmental data in one  
accessible resource Provides key  
information needed for effectively  
communicating environmental  
and sustainability issues Offers a**

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**clear index Includes detailed  
tables throughout for ease of  
access**

**Protective Textiles from Natural  
Resources**

**Sustainability in Denim**