
Garment Finishing In Industrial Engineering

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Apparel Manufacturing Technology

Readings in Industrial Engineering and Management

Advances in Phytochemistry, Textile and Renewable Energy Research for Industrial Growth

The National Skills Development Handbook 2007/8

Textile and clothing management

IFIP TC 5, WG 5.5 Seventh International Conference on Information Technology for Balanced Automation Systems in Manufacturing and Services, Niagra Falls, Ontario, Canada, September 4-6, 2006

Industrial Engineering

Annual Industrial Engineering Conference

Productivity Improvement in Apparel Manufacturing

An introduction

an appreciation

An Action Manual

SAUNDERS PHILLIPS

Textile and Clothing Design Technology Springer Nature

Responsible Manufacturing has become an obligation to the environment and to society itself, enforced primarily by customer perspective and governmental regulations on environmental issues. This is mainly driven by the escalating deterioration of the environment, such as diminishing raw material resources, overflowing waste sites, and increasing levels of pollution. Responsible Manufacturing related issues have found a large following in industry and academia, which aim to find solutions to the problems that arise in this newly emerged research area. Problems are widespread, including the ones related to the lifecycle of products, disassembly, material recovery, remanufacturing, and pollution prevention. Organized into sixteen chapters, this book provides a foundation for academicians and practitioners, and addresses several important issues faced by strategic, tactical, and operation planners of Responsible Manufacturing. Using efficient models in a variety of decision-making situations, it provides easy-to-use mathematical and/or simulation modeling-based solution methodologies for the majority of the issues. Features Addresses a variety of state-of-the-art issues in Responsible Manufacturing Highlights how popular industrial engineering and operations research techniques can be effectively exploited to find the most effective solutions to problems Presents how a specific issue can be approached or modeled in a given decision-making situation Covers strategic, tactical, and operational systems issues Provides a foundation for academicians and practitioners interested in building bodies of knowledge in this new and fast-growing area

Functional Textiles and Clothing Woodhead Publishing

South Asia remains one of the fastest-growing regions in the world but concerns are rising that its workforce lacks the skills and education to drive its economy into the 21st century. Providing access to quality education and skills training is now a priority of policymakers in the region. But even though government spending on education has increased significantly in recent years, it has not resulted in effective education outcomes. This report is one in a series of four publications that examines how education and training systems in the region can be improved. In particular, it looks at the role that the private sector can play in improving standards through investments in education and training.

Industrial Engineering in Apparel Manufacturing Online Clothing Study

Garment Manufacturing Technology provides an insiders' look at this multifaceted process, systematically going from design and production to finishing and quality control. As technological improvements are transforming all aspects of garment manufacturing allowing manufacturers to meet the growing demand for greater productivity and flexibility, the text discusses necessary information on product development, production planning, and material selection. Subsequent chapters covers garment design, including computer-aided design (CAD), advances in spreading,

cutting and sewing, and new technologies, including alternative joining techniques and seamless garment construction. Garment finishing, quality control, and care-labelling are also presented and explored. Provides an insiders look at garment manufacturing from design and production to finishing and quality control Discusses necessary information on product development, production planning, and material selection Includes discussions of computer-aided design (CAD), advances in spreading, cutting and sewing, and new technologies, including alternative joining techniques and seamless garment construction Explores garment finishing, quality control, and care labelling *Manufacture, Finishing and Applications* International Labour Organisation

This book aims to provide a broad conceptual and theoretical 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 considered quality aspects. 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 methods of construction and technology. This book covers 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, industrialists and academicians, as well as professionals in the apparel and textile industry.

Design of Clothing Manufacturing Processes Elsevier

The International Conference on Phytochemistry, Textile, & Renewable Energy Technologies for Sustainable Development (ICPTRE 2020) was hosted by the World bank funded Africa Centre of Excellence in Phytochemicals, Textile and Renewable Energy (ACEII-PTRE) based at Moi University in conjunction with Donghua University, China and the Sino-Africa International Symposium on Textiles and Apparel (SAISTA). The theme of the conference was Advancing Science, Technology and Innovation for Industrial Growth. The research relationships between universities and industry have enabled the two entities to flourish and, in the past, have been credited for accelerated sustainable development and uplifting of millions out poverty. ICPTRE 2020 therefore provided a platform for academic researchers drawn from across the world to meet key industry professionals and actively share knowledge while advancing the role of research in industrial development, particularly, in the developing nations. The conference also provided exhibitors with an opportunity to interact with professionals and showcase their business, products, technologies and equipment. During the

course of the conference, industrial exhibitions, research papers and presentations in the fields of phytochemistry, textiles, renewable energy, industry, science, technology, innovations and much more were presented.

Industrial Engineering in Apparel Production Springer

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.

Cutting Room Management in Apparel Manufacturing CRC Press

While there is pressure (from buyers), inclination (within self to do better) and a heightened aspiration among apparel manufacturers to use Industrial Engineering (IE) like other more industrialized sectors, there is no specific book as such dealing with IE in relation to apparel manufacturing. The existing books that are already written on IE possess academic rigour and generic functions applicable across industries, thus making it difficult for the practitioners to refer and clear discrete doubts related to apparel manufacturing. Undoubtedly, work study is the centrepiece of Industrial Engineering; however apart from work study, industrial engineers in apparel industry are also supposed to perform various other functions like preparing operation breakdown and operation flow chart, selecting machine type and attachment and workaids, planning machine layout for maximizing unidirectional material movement, optimising inventory and storage space and maintaining workplace health and safety. These are some of the areas that often lack significant attention. This practitioner's handbook is an amalgamation of theory and practices, including steps of implementation and common mistakes. A balanced approach is taken to make it equally meaningful and useful for the academics as well as the industry. A unique section titled "industry practices" is incorporated at the end of each chapter which shares the typical practices, constraints and benefits accrued by the industry, which will give meaningful insight to the readers and help them relate theory with actual practice.

Innovative Strategies for Accelerated Human Resources Development in South Asia

Elsevier

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 for 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 manufacture changing 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.

Proceedings of the 2014 International Conference on Engineering Management and Industrial Engineering (EMIE 2014), Xiamen, China, 16-17 October 2014 Asian Development Bank

Waste Management in the Textiles Industry explores and explains the latest technologies and best practices for an integrated approach to the management and treatment of wastes generated in this industry. Provides a strong technological analysis of the manufacturing supply chain, including spinning, fabric production, finishing, garment manufacture, and the packaging of clothing Explains how textile technology perspectives feed into management decision-making about sustainability Addresses the industry's impact on air and water quality and landfill waste

Garment Manufacturing Woodhead Publishing

In this ebook, the author has covered common key performance indicators (KPIs) measured by top tire readymade garment manufacturers. He has explained why you need to measure certain KPIs and the method to be used for measuring those KPIs. Data collection formats are provided for your practice and implementation. Both newcomers and existing business owners can find helpful guides in this book for measuring KPIs and data analysis. This book is useful for production planner, industrial engineers, small size garment business owners, and those who are responsible for measuring factory KPIs.

Work study Elsevier

The garment manufacturing industry faces many global challenges due to various factors including competition, increased production costs, less productivity/efficiency and labor attribution. So, there is a need to focus and concentrate on identifying the real issues, taking corrective actions suited to the specific industrial centre of the unit, empowering the technical and managerial staff by enhancing their knowledge and ability, analysing orders efficiently and deciding whether actions are viable for the company. Industrial engineering in apparel production reviews the techniques for internal correction and openness for a knowledge/technology approach that needs to be built into the mind of the faculties to be upgraded as system run, rather than people run. The author emphasizes that the industrial engineering concept needs to be imparted to the facilities to increase productivity. With its highly distinguished author, Industrial engineering in apparel production is a valuable reference for students, researchers, industrialists, academics and professionals in the clothing and textile industry.

Introduction to Work Study Woodhead Publishing Limited

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

Garment Maker's KPI Apparel Resources Pvt. Ltd.

This book gathers peer-reviewed proceedings of the 3rd International Conference on Innovative Computing (IC 2020). This book aims to provide an open forum for discussing recent advances and emerging trends in information technology, science, and engineering. Themes within the scope of the conference include Communication Networks, Business Intelligence and Knowledge Management, Web Intelligence, and any related fields that depend on the development of information technology. The respective contributions presented here cover a wide range of topics, from databases and data mining, networking and communications, the web and Internet of Things, to embedded systems, soft computing, social network analysis, security and privacy, optical communication, and ubiquitous/pervasive computing. Readers such as students, researchers, and industry professionals in the fields of cloud computing, Internet of Things, machine learning, information security, multimedia systems, and information technology benefit from this comprehensive overview of the latest advances in information technology. The book can also benefit young investigators looking to start a new research program.

Public-Private Partnerships for Education and Training: Special Focus on Bangladesh, Nepal, and Sri Lanka Woodhead Publishing

This volume contains select papers presented during the Functional Textiles and Clothing Conference 2018. The book covers the recent scientific developments, cutting edge technologies, innovations, trends, challenges and opportunities in the field of functional and smart textiles and clothing. The contents of this volume will be of interest to researchers, professional engineers, entrepreneurs, and market stakeholders interested in functional textiles and clothing.

Technological Advances and Future Challenges Springer

Nonwovens: Process, Structure, Properties and Applications outlines the concept and principle of entire nonwoven manufacturing process starting from raw material selection, web formation techniques, web bonding methods and finishing. Further, characterization and testing of non-woven fabrics, application of non-woven fabrics in different areas such as apparel, agrotech, geotech, medical and hygiene, automotive textiles, filtration products, home textiles, roofing and construction and packaging were also discussed in detail. The advancements in non-woven manufacturing known as composite non-woven, their properties and applications were discussed in detail. The application of natural fibers in non-woven manufacturing with their advantages and limitations were also discussed in brief. This book is primarily a text book intended for textile technology students in universities and colleges, researchers, industrialists and academicians, as well as professionals in the apparel and textile industry.

A Systematic Approach to Planning, Scheduling and Control IGI Global

Denim: Manufacture, Finishing and Applications provides exhaustive coverage of denim manufacture, jeans washing, 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 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 denim. Provides a thorough review of denim manufacturing and jeans washing technologies. Includes details relevant to the fashion and apparel industry while maintaining a high level of technological content on spinning, dyeing, weaving, garments, washing, finishing and other

applications. Includes several contributions from industry experts

Concepts, Methodologies, Tools, and Applications BoD – Books on Demand

The era of mass manufacturing of clothing and other textile products is coming to an end; what is emerging is a post-industrial production system that is able to achieve the goal of mass-customised, low volume production, where the conventional borders between product design, production and user are beginning to merge. To continue developing knowledge on how to design better products and services, we need to design better clothing manufacturing processes grounded in science, technology, and management to help the clothing industry to compete more effectively. Design of clothing manufacturing processes reviews key issues in the design of more rapid, integrated and flexible clothing manufacturing processes. The eight chapters of the book provide a detailed coverage of the design of clothing manufacturing processes using a systematic approach to planning, scheduling and control. The book starts with an overview of standardised clothing classification systems and terminologies for individual clothing types. Chapter 2 explores the development of standardised sizing systems. Chapter 3 reviews the key issues in the development of a garment collection. Chapters 4 to 7 discuss particular aspects of clothing production, ranging from planning and organization to monitoring and control. Finally, chapter 8 provides an overview of common quality requirements for clothing textile materials. Design of clothing manufacturing processes is intended for R&D managers, researchers, technologists and designers throughout the clothing industry, as well as academic researchers in the field of clothing design, engineering and other aspects of clothing production. Considers in detail the design of sizing and classification systems. Discusses the planning required in all aspects of clothing production from design and pattern making to manufacture. Overviews the management of clothing production and material quality requirements.

Innovative Strategies in Technical and Vocational Education and Training for Accelerated Human Resource Development in South Asia CRC Press

Productivity improvement means doing the same thing in a better and smarter way and continuing to work on improving the techniques for an individual or a team on the shopfloor. And this continuous improvement is the only way to achieve high profitability. Garment manufacturing involves number of operations carried out by different operators and all the activities starting from cutting, sewing till finishing are different from each other in terms of the way they are performed and the technology being used for them. So, it is always advisable to look at the working of four aspects and that are material, machine, men and method. However there are ways to build higher productive efficiencies which result in reduction in cost and bring in higher profit margin.. The book discusses different case studies from the shopfloor showing productivity improvements.

Engineering Control Technology Assessment of the Dry Cleaning Industry Elsevier

Currently, most of the textile industry and textile institutions are located in South Asia. The textile industry leads to the development of clothing from fibres, yarns, and fabrics. The industry is growing in this area as it has already been shifted from Europe and is being shifting from China. As the textile industry is growing, many new textile intuitions are being established to provide for quality textile education. This introductory level textbooks is geared towards them. This book will provide all necessary information from fibres to fabrics and their conversion to clothing. The importance of

textiles in the current era along with the raw materials needed for the textiles are given. After that, it is explained how the yarn is made from fibres. Then the fabrics manufacturing, the printing and dyeing of textiles and the conversion of fabrics into the garments is discussed. Also, the testing of fibres, yarns and fabrics along with the description of technical textiles is mentioned. This book is beneficial for all readers who are going to start their career in textiles or are going to start the engineering degree in textiles. The present book is designed for the first year students (especially

for the National Textile University Faisalabad) of textile engineering.

Engineering Apparel Fabrics and Garments Woodhead Publishing

Engineering Management and Industrial Engineering endeavors to provide a comprehensive and in-depth understanding of recent advances in management industrial engineering. The book is divided in the sections below: Modeling, Simulation and Engineering Application Manufacturing Systems and Industrial Design Information Processing and Engineering

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