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Process Management in Spinning

R. Senthil Kumar



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Richard Hull, Jan Mendling, Stefan Tai



Process Management In Spinning:

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Waste Management in the Fashion and Textile Industries Rajkishore Nayak, Asis Patnaik, 2021-01-07 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

Humidification and Ventilation Management in Textile Industry B. Purushothama, 2024-02-13 This book is a comprehensive guide for professionals in the textile industry It delves into the intricate balance of moisture and air control that shapes textile production From enhancing quality to optimizing efficiency this book is an indispensable resource for the industry professionals

Process Control in Textile Manufacturing Abhijit Majumdar, Apurba Das, R Alagirusamy, V K Kothari, 2012-11-27 Complex raw materials and manufacturing processes mean the 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 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 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 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 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 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 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

Research Design for Combed Yarn Quality Dr. Sukhvir Singh, 2023-05-22 The aim of this study is to investigate the effects of finisher drawframe storage variables such as can spring stiffness sliver deposition rate and sliver coils position on the quality characteristics of the combed ring spun yarn The research design also includes the effect of sliver storage time on the quality of stored sliver and subsequently on roving and yarn produced on speedframe and ringframe respectively The critical role of storage can spring parameters on combed sliver roving and yarn quality has been frequently discussed in spinning preparatory literature However a clear understanding of the nature of relationships as mentioned above is not yet well established by the previous works So there is a need to study the underlying factors at a deeper level that may provide further insight into ways to control ring yarn quality Therefore the present investigations were carried out to observe the effects of uncommon process parameters namely can spring stiffness delivery rate and sliver coils position at post comber drawing stage on sliver roving and yarn quality when slivers were allowed to feed without any storage time and after 8 hours storage time The research plan was developed by implementing a three factor three level Box Behnken design of experiment The effects of aforementioned variables were studied on combed yarn unevenness properties $U\%$ $CV_m\%$ and Imperfections tensile properties yarn tenacity and breaking elongation and S3 hairiness The results showed that the effects of can spring stiffness and sliver coils position are significant on yarn evenness $CV_m\%$ imperfections tenacity and S3 hairiness However the combed yarn quality parameters did not show any significant relationships with the post combing drawing delivery rate It was observed that the combed yarn produced from bottom position sliver coils using older can spring showed less even yarn with improved imperfection having less strength and more hairiness The combed yarn quality further deteriorates on allowing 8 hours of sliver storage time It was found that the bottom sliver coils experience the highest compressive forces compared to other sliver coils position and adjacent sliver coils stickiness was observed which result in sliver stretching and failure at the time of processing on speedframe Also older can spring of reduced spring stiffness result in buckling which leads to stored sliver contact with rough sidewalls caused weak hairy sliver The combed yarn samples produced from such storage cans leads to uneven yarn with more imperfections weaker and hairy yarn structure The contribution of sliver coils position was found highest followed by can spring stiffness in deciding combed yarn quality parameters in the current study However the effect of finisher drawframe delivery speed on yarn quality parameters was found minimal Apart from this an attempt has been made to understand the effect of dynamics of the can spring mechanism on combed sliver handling at the time of sliver deposition at drawframe through bond graph modeling approach The behaviour of the can spring used for combed sliver storage was found linear as expected It was observed that bond graph modeling of can spring mechanism

provides us information on more states in a systematic and algorithmic manner compared to any other technique Linear momentum linear displacement of top plate force experienced by the combed sliver and load versus displacement response of the mechanism was also studied However the more rigorous study is required to study the accurate dynamics of such precise systems because the force and the stresses experienced by the combed sliver are too low due to very low inter fiber cohesion

Sustainable Technologies for Fashion and Textiles Rajkishore Nayak,2019-12-04 Sustainable Technologies for Fashion and Textiles combines the latest academic research and industrial practices to shed light on a wide range of activities that influence how the textiles industry affects the natural environment Pressure from regulators customers and other stakeholders has pressed companies to translate general sustainability concepts and ideas into business practices This is leading to improvements in how the industry consumes water electricity and chemicals and to a reduction in the amount of waste generated by textile processes This book groups approaches to these topics under four themes fiber yarn and fabric production chemical processing garment manufacturing and recycling

Industrial Intelligence: Methods and Applications Tianyuan Liu,Jinsong Bao,Yu Zheng,Yuqian Lu,2025-02-03 This book explains the AI algorithms techniques and application methods used in manufacturing and how they contribute to the advancement of industrial intelligence Industrial artificial intelligence IAI is rapidly evolving alongside the development of smart manufacturing which cannot be achieved without intelligence at its core IAI enables intelligent and resilient manufacturing systems making them fault tolerant on demand and self organizing It also provides on demand manufacturing services to end users by optimally coordinating distributed manufacturing resources augmented by AI methodologies This book will be of interest to researchers and professionals in the manufacturing industry

Business Process Management Richard Hull,Jan Mendling,Stefan Tai,2010-08-25 The BPM Conference series has established itself as the premier forum for searchersintheareaofbusinessprocessmanagementandprocess awareinfor tion systems It has a record of attracting contributions of innovative research of the highest quality related to all aspects of business process management including theory frameworks methods techniques architectures systems and empirical ndings BPM 2010 was the 8th conference of the series It took place September 14 16 2010 on the campus of Stevens Institute of Technology in Hoboken New Jersey USA with a great view of Manhattan New York This volume c tains 21 contributed research papers that were selected from 151 submissions The thorough reviewing process each paper was reviewed by three to ve P gram Committee members followed in most cases by in depth discussions was extremely competitive with an acceptance rate of 14% In addition to the c tributed papers these proceedings contain three short papers about the invited keynote talks In conjunction with the main conference nine international workshops took place the day before the conference These workshops fostered the exchange of fresh ideas and experiences between active BPM researchers and stimulated discussions on new and emerging issues in line with the conference topics The proceedings with the papers of all workshops will be published in a separate volume of Springer s

Lecture Notes in Business Information Processing series Beyond that the conference also included a doctoral consortium an industry program reside chats tutorials panels and demonstrations

Principles of Process Planning G. Halevi, R. Weill, 2012-12-06 Process planning determines how a product is to be manufactured and is therefore a key element in the manufacturing process It plays a major part in determining the cost of components and affects all factory activities company competitiveness production planning production efficiency and product quality It is a crucial link between design and manufacturing There are several levels of process planning activities Early in product engineering and development process planning is responsible for determining the general method of production The selected general method of production affects the design constraints In the last stages of design the designer has to consider ease of manufacturing in order for it to be economic The part design data is transferred from engineering to manufacturing and process planners develop the detailed work package for manufacturing a part Dimensions and tolerances are determined for each stage of processing of the workpiece Process planning determines the sequence of operations and utilization of machine tools Cutting tools fixtures gauges and other accessory tooling are also specified Feeds speeds and other parameters of the metal cutting and forming processes are determined

Adopting the Tune of Appearance: An Mental Symphony within **Process Management In Spinning**

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