



# Process Management in Spinning

*R. Senthil Kumar*

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**Process Management in Spinning** R. Senthil Kumar

*A Straightforward Text Summarizing All Aspects of Process Control*

Textile manufacturing is one of the largest industries in the world, second only to agriculture. Spinning covers a prominent segment in textile manufacturing, and this budding industry continues to thrive and grow. **Process Management in Spinning** considers aspect of process management, and offers insight into the process control procedures and methods of spinning. Focusing on the technology as well as the management of the process, it examines both the economic and technological advancements currently taking place in the spinning industry. This text takes a close look at the advancing technology in manufacturing and process, and product quality control. It provides a basic overview of the subject, and also presents applications of this technology for practicing engineers.

Incorporates Industry-Based, Real-World Examples

The book contains 15 chapters that specifically address the stages of process control, energy management methods, humidification and ventilation systems basics, pollution management, process management tools, productivity, waste control, material handling, and other aspects of spinning mills. It also includes real-time case studies involving typical problems that arise in spinning processes and strategies used to contain them. The author provides a broad outlook on various topics including mixing, winding, raw material and optimizing raw material properties, bale management, yarn engineering systems, processing, and process management systems. He also details the defects associated with each and every process with causes, effects, and control measures. The book addresses process management as it relates to productivity, quality, and costs, as well as process control as it relates to man, machine, and material.

- Provides the scientific method for optimization/optimizing the properties of the fibers
- Familiarizes the reader with remedial measures to enhance the quality of the product
- Addresses productivity measurement and its role in controlling the cost of the manufacturing process
- Contains detailed examples, as well as linear programming and optimization techniques, and statistical applications
- Covers the areas of process control methods in spinning, defect analysis and rectification, improving productivity and quality, and using statistical tools

Process Management in Spinning establishes the various process management measures required to help improve the process efficiency in spinning mills and the textile industry overall. Aimed at professionals in the textile industry, this text is a perfect resource for textile engineers/technologists/manufacturers, spin quality control engineers, spin quality assurance personnel, and other industry professionals.

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