



# **Engineering Fundamentals of Ring Spinning/Twisting, Over-end Unwinding and Two-for-One Twisting in Textile Processes (Engineering With Fibers)**

*W. Barrie Fraser Subhash Batra, Subhash Batra*

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**Engineering Fundamentals of Ring Spinning/Twisting, Over-end Unwinding and Two-for-One Twisting in Textile Processes (Engineering With Fibers)** W. Barrie Fraser Subhash Batra, Subhash Batra  
Essential theory for understanding and modifying dynamic elements of high-speed yarn spinning, unwinding and twisting Troubleshoot and correct problems in fibers and machinery caused by very rapid throughput

Using basic physics and engineering principles, this volume analyzes dynamic forces in three processes critical for textile production: O-ring spinning, unwinding and twisting. The book offers a review of approaches for modeling the processes and discusses the advantages and disadvantages of each. Detailed analyses are given for the dynamics of ballooning yarns, instabilities due to acceleration, and the many interacting parameters that affect tension. The theory presented is linked to practical questions such as how to prevent broken yarns and reduce equipment downtime with an emphasis on ways to improve process design and achieve higher throughput. This technical book furnishes the calculations needed to understand and optimize a number of textile production processes, including texturing and warping.

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