

New book on Engineering Fundamentals of Ring Spinning/Twisting in Textile Processes

Essential theory for understanding and modifying dynamic elements of high-speed yarn spinning, unwinding and twisting; Troubleshoot and correct problems

LANCASTER, PA, USA, November 17, 2015
/EINPresswire.com/ -- (Lancaster, PA, USA; November 2015) — [DEStech Publications, Inc.](http://www.destechpublications.com) announces the publication of the latest book in the "Engineering With Fibers" series titled "Engineering Fundamentals of Ring Spinning/Twisting, Over-end Unwinding and Two-for-One Twisting in Textile Processes", by Subhash Batra, North Carolina State University and W. Barrie Fraser, University of Sydney.

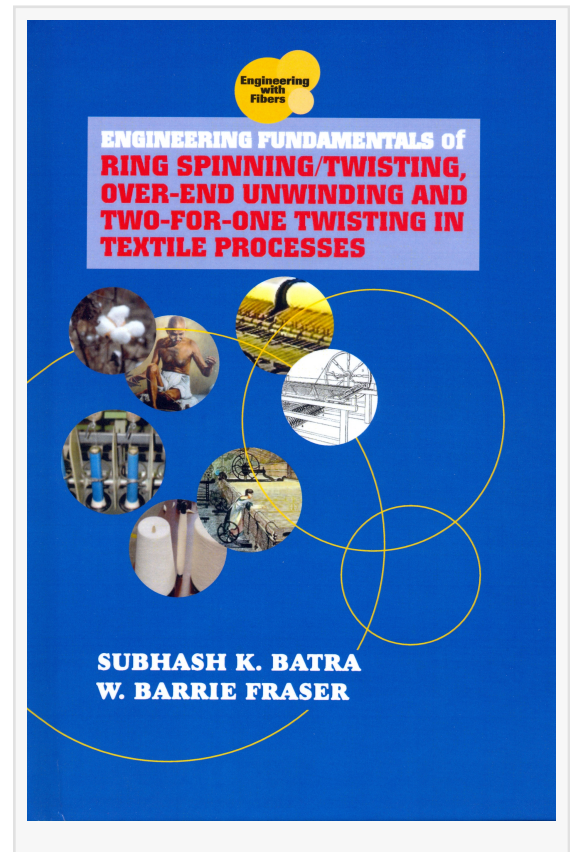
Using basic physics and engineering principles, this volume analyzes dynamic forces in three processes critical for textile production: O-ring spinning, unwinding and twisting. The book offers a review of approaches for modeling the processes and discusses the advantages and disadvantages of each. Detailed 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.

This volume is the latest in the Engineering With Fibers series, edited by B. Pourdeyhimi, S. Batra and M. Jaffe.

Engineering Fundamentals of Ring Spinning/Twisting, Over-end Unwinding and Two-for-One Twisting in Textile Processes, by Subhash Batra and W. Barrie Fraser, is published by DEStech Publications, Inc., best known for advanced publications in engineering, science and medicine. 978-1-60595-172-0, November 2015, 186 pages, 6x9, HC book, Price: \$159.50.

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