



Filament Yarn

# Synthetic Filament Yarn Texturing Technology

**Stephen M. Burkinshaw**



## **Synthetic Filament Yarn Texturing Technology:**

**Synthetic Filament Yarn** Ali Demir, Hassan M. Behery, 1997      **Yarn Texturing Technology** J. W. S. Hearle, L. Hollick, D. K. Wilson, 2001-10-09 Texturing is increasingly important in textile production not only in yarns for weaving and knitting fashion products but also for carpets furnishing fabrics and a variety of technical textiles This book covers all the major techniques including twist texturing jet screen texturing false twist process BCF processes and air jet texturing in detail Combining a comprehensive review of the physics and chemistry of texturing with a thorough illustrated description of current practice this book is invaluable for yarn and fabric manufacturers textile scientists and students on textile science and technology courses      *Advances in Yarn Spinning Technology* C. A. Lawrence, 2010-09-27 This book provides an invaluable single source of information on the advances in yarn spinning technologies Advanced spinning systems are described and comparisons are made of the properties of the yarns produced and resultant finished products with those from conventional systems Part one provides an introduction to yarn fibre spinning and structure Chapters discuss the principles of ring spinning and open end spinning of yarns Yarn structure and properties from different spinning techniques and yarn structural requirements for knitted and woven fabrics are also examined Part two covers advances in particular yarn spinning technologies Topics range from siro spinning to compact spinning technology and air jet spinning Final chapters explore how to minimise fibre damage which occur during spinning and the use of spin finishes for textiles With its distinguished editor and array of international contributors *Advances in yarn spinning technology* is an important text for spinners yarn manufacturers and fabric producers as well as researchers technicians engineers and technologists in this sector of the textile industry Documents advances in spinning technologies and presents comparisons between systems Assesses particular textile spinning technologies with specific chapters focusing on siro compact rotor friction and air jet spinning Reviews measures to minimise fibre damage caused by spinning are investigated with specific relevance to rotor and friction spinning      **High Performance Technical Textiles** Roshan Paul, 2019-02-19 An authentic resource for the fundamentals applied techniques applications and recent advancements of all the main areas of technical textiles Created to be a comprehensive reference *High Performance Technical Textiles* includes the review of a wide range of technical textiles from household to space textiles The contributors noted experts in the field from all the continents offer in depth coverage on the fibre materials manufacturing processes and techniques applications current developments sustainability and future trends The contributors include discussions on synthetic versus natural fibres various textile manufacturing techniques textile composites and finishing approaches that are involved in the manufacturing of textiles for a specific high performance application Whilst the book provides the basic knowledge required for an understanding of technical textiles it can serve as a springboard for inspiring new inventions in hi tech fibres and textiles This important book Contains a unique approach that offers a comprehensive understanding of the manufacturing and applications of technical textiles Includes a general overview

to the fundamentals current techniques end use applications as well as the most recent advancements Explores the current standards in the industry and the ongoing research in the field Offers a comprehensive and single source reference on the topic Written for academics researchers and professionals working in textile and related industries High Performance Technical Textiles offers a systematic structured logical and updated source of information for understanding technical textiles *Yarn Texturing Technology* John W. S. Hearle, L. Hollick, D K Wilson, 2001-11-08 Texturing is increasingly important in textile production not only in yarns for weaving and knitting fashion products but also for carpets furnishing fabrics and a variety of technical textiles Yarn Texturing Technology covers all the major techniques including twist texturing jet screen texturing false twist process BCF processes and air jet texturing in detail Combining a comprehensive review of the physics and chemistry of texturing with a thorough illustrated description of current practice this book will be invaluable for yarn and fabric manufacturers textile scientists and students in textile science and technology courses

**Physico-chemical Aspects of Textile Coloration** Stephen M. Burkinshaw, 2016-02-08 The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products As the great majority of such products are coloured predominantly using aqueous dyeing processes the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres Physico Chemical Aspects of Textile Coloration provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural man made and synthetic fibres with the principal types of dye The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing dyeing as an area of study as well as the terminology employed in dyeing technology and science contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres polyester polyamide wool polyacrylonitrile and silk fibres non aqueous dyeing as represented by the use of air organic solvents and supercritical CO<sub>2</sub> fluid as alternatives to water as application medium The up to date text is supported by a large number of tables figures and illustrations as well as footnotes and widespread use of references to published work The book is essential reading for students teachers researchers and professionals involved in textile coloration *Textured Yarn Technology: Production, properties, and processing* Monsanto Company. Textiles Division, 1967 *False Twist Textured Yarns* C Atkinson, 2012-03-15 A false twist textured yarn is a continuous filament yarn that has been processed to introduce crimps coils loops and other fine distortions

along the yarn's length. These distortions give synthetic yarns such as nylon, polyester and polypropylene improved properties such as stretch, bulk, improved thermal insulation and an appearance similar to natural fibres. This important book summarises the key principles, technologies and process issues in the manufacture of high quality false twist textured yarns. After an introductory chapter on the development of textured yarns, the book reviews yarn texturing machine designs and twist application methods including air jet mingling and machine variants for draw textured speciality yarns. It also reviews common process performance and quality problems and how they can be resolved, as well as process control, quality assurance and costs. The final chapters look at applications of false twist textured nylon, polyester and polypropylene yarns, as well as the future of false twist texturing. Based on the author's extensive experience in the textile industry, *False twist textured yarns* is a standard reference on the key technologies and process issues involved in the manufacture of high quality false twist textured yarns. Discusses the development of textured yarns, the basic principles of texturing and the process of false twist texturing. Summarises the key principles, technologies and process issues in the manufacture of high quality false twist textured yarns. Chapters include texturing machine design, applications of textured yarns and the future opportunities for false twist texturing. *Textile Technology Digest*, 1998. **Textiles Magazine**, 1997. *Encyclopedia of Polymer Science and Technology: Step-reaction polymerization to Thermoforming*, 1970. **Bibliographic Index**, 1997. **Technology of the Textile Industry, U.S.S.R.**, 1965. **TEXINCON.**, 1993. *Written Comments on Certain Tariff and Trade Bills*, 1985. **Asian Textile Business**, 2005. *Fashion Fabrics 1960s* Leslie A. Piña, Constance Korosec, 1998. Fabric colors, patterns, textures and fibers reveal as much about a culture as do the furnishings and clothing that relied on the fabrics. In the 1960s traditional plaids became popular at the same time as bold prints and geometrics, notably Op Art and psychedelic patterns. Nearly 600 close up color photographs of 1960s fabrics with informative captions and index comprise this book for designers, historians and students of fashion and textiles. *Textile Trends*, 2000. *The Indian Textile Journal* Sorabji M. Rutnagur, 1998. *Resume of Papers ... Technological Conference* South India Textile Research Association. Joint Technological Conference, 1992.

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