

# *Handbook of yarn production*

Technology, science and economics



Peter R. Lord

WIP



The Textile Institute



# Handbook Of Yarn Production Technology Science And Economics

**Yehia Elmogahzy**



## **Handbook Of Yarn Production Technology Science And Economics:**

**Handbook of Yarn Production** Peter R. Lord, 2003-08-05 Written a leading expert Handbook of Yarn Production Technology Science and Economics is an authoritative and comprehensive guide to textile yarn manufacturing The book is designed to allow readers to explore the subject in various levels of detail The first three chapters provide an overview of yarn production products and key principles The book then reviews in detail the production processes for short staple long staple and filament yarns There are also chapters on quality control and the economics of staple yarn production The final part of the book consists of a series of appendices with more detailed technical data and worked examples providing in depth analysis of key topics

**Handbook of Yarn Production** Peter R. Lord, 2003-07-11 Written by one of the world's leading experts Handbook of yarn production technology science and economics is an authoritative and comprehensive guide to textile yarn manufacturing The book is designed to allow readers to explore the subject in various levels of detail The first three chapters provide an overview of yarn production products and key principles The major part of the book then reviews in detail the production processes for short staple long staple and filament yarns There are also chapters on quality control and the economics of staple yarn production The final part of the book consists of a series of appendices which provide in depth analysis of key topics with detailed technical data and worked examples which is an invaluable reference in itself for anyone concerned with the behaviour performance and economics of a textile mill Handbook of yarn production technology science and economics is a standard work for both yarn manufacturers and those researching and studying in this important area of the textile industry A practical and authoritative new handbook for yarn manufacturing Shows how problems can arise and how to deal with them Includes invaluable technical data calculations worked examples and case studies

**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 **J.J. Pizzuto's Fabric Science** Ingrid Johnson, Allen C. Cohen, Ajoy K. Sarkar, 2015-09-24 With an easy to use loose leaf binder format and vibrant color photographs Fabric Science shows the creative application of textiles in fashion and interior design The companion Fabric Science Swatch Kit 11th Edition 9781628926576 which includes 114 fabric swatches aligned with this text gives students hands on experience with textile fibers yarns fabrications dyes prints and finishes providing a complete package for understanding textiles The eleventh edition to meet the needs of both students and professionals in the textile fashion and related industries seeking an introduction to textiles Johnson and Sarkar provide readers with a comprehensive text about the design structure and application of textiles with an emphasis on fashion and home goods The range of information is exceptionally broad and includes basic fiber makeup fiber innovation the formation of fabrics quality issues and laws that regulate textiles updated topics include environmental responsibility nanotechnology and innovations in industrial textiles and career opportunities in design production marketing merchandising apparel and home products Key Features New Business of Textiles features focus on textile applications within the industry ranging from Novelty Yarns in Chanel Suits Wearable Apparel Technology to Green Dry Cleaning 20% new photographs and more than 250 color photos and illustrations throughout the text Chapter objectives key terms study questions and assignments reinforce concepts and application Swatch Key at the start of each chapter identifies examples in the companion Fabric Science Swatch Kit 11th Edition 9781628926576 to understand chapter content and complete chapter assignments Instructor's Guide Test Bank and PowerPoint presentation available **Cotton** S. Gordon, Y L Hsieh, 2006-12-22 Despite the increased variety of manufactured fibres available to the textile industry demand for cotton remains high because of its suitability on the basis of price quality and comfort across a wide range of textile products Cotton producing nations are also embracing sustainable production practices to meet growing consumer demand for sustainable resource production This important book provides a comprehensive analysis of the key scientific and technological advances that ensure the quality of cotton is maintained from the field to fabric The first part of the book discusses the fundamental chemical and physical structure of cotton and its various properties Advice is offered on measuring and ensuring the quality of cotton fibre Building on these basics Part two analyses various means for producing cotton such as genetic modification and organic production Chapters focus on spinning knitting and weaving technologies as well as techniques in dyeing The final section of the book concludes with chapters concerned with practical aspects within the industry such as health and safety issues and recycling methods for used cotton Written by an array of international experts within the field Cotton science and technology is an essential reference for all those concerned with the manufacture and quality control of cotton Summarises key scientific and technological issues in ensuring cotton quality Discusses the fundamental chemical and physical structure of cotton Individual chapters focus on spinning knitting and weaving technologies **Engineering Textiles** Yehia Elmogahzy, 2019-11-01 Engineering Textiles

Integrating the Design and Manufacture of Textile Products Second Edition is a pioneering guide to textile product design and development enabling the reader to understand essential principles concepts materials and applications This new edition is updated and expanded to include new and emerging topics design concepts and technologies such as sustainability the use of nanotechnology and wearable textiles Chapters cover the essential concepts of fiber to fabric engineering product development and design of textile products different types of fibers yarns and fabrics the structure characteristics and design of textiles and the development of products for specific applications including both traditional and technical textiles This book is an innovative and highly valuable source of information for anyone engaged in textile product design and development including engineers textile technologists manufacturers product developers and researchers and students in textile engineering Presents an integrated approach to textile product design and development Guides the reader from initial principles and concepts to cutting edge applications Includes cutting edge design concepts and major new technologies

Consumer Awareness and Textile Sustainability Subramanian Senthilkannan Muthu, 2023-11-27 This contributed volume discusses how consumer awareness of textile sustainability can lead to a more sustainable textile supply chain From the initial purchase of a textile to its care and longevity consumer behaviors are at the core of consumption associated with the textile industry Making consumers aware of the environmental impacts of the clothing products they buy help them to choose the best alternative which has the lowest footprints and also enable them to help the entire textile sector to become sustainable In addition making them aware of environmental footprints of textile products from cradle to grave make them aware of how best they can take care of their products during use and disposal phases and how they can help to preserve the planet with their earnest efforts to reduce the environmental impacts in their boundary i.e. the use and disposal phases

**High-Performance Apparel** John McLoughlin, Tasneem Sabir, 2017-09-18 High Performance Apparel Materials Development and Applications covers the materials and techniques used in creating high performance apparel the technical aspects of developing high performance garments and an array of applications for high performance clothing and wearable technology Part One covers fabric construction for high performance garments from fiber types and spinning methods to weaving knitting finishing and joining techniques Development of high performance apparel is covered in Part Two with particular emphasis on design and product development for function and wearer comfort Part Three covers a range of applications and wearable technology that make use of high performance apparel including chapters on sportswear protective clothing and medical military and intelligent textiles The book provides an excellent resource for all those engaged in garment development and production and for academics engaged in research into apparel technology and textile science Offers a range of perspectives on high performance apparel from an international team of authors with diverse expertise Provides systematic and comprehensive coverage of the topic from fabric construction through apparel design and development to the range of current and potential applications Presents an excellent resource for all those engaged in

garment development and production and for academics engaged in research      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 results in sliver stretching and failure at the time of processing on speedframe. Also, older can spring of reduced spring stiffness results in buckling, which leads to stored sliver contact with rough sidewalls, causing weak hairy sliver. The combed yarn samples produced from such storage cans lead 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

***Structure and Mechanics of Textile Fibre Assemblies*** Peter Schwartz,2019-08-15 *Structure and Mechanics of Textile Fibre Assemblies* Second Edition offers detailed information on all aspects of textile structure and mechanics This new edition is updated to include the latest technology and techniques as well as fiber assembly for major application areas Chapters discuss the mechanics of materials and key mechanical concepts such as stress strain bending and shear but also examine structure and mechanics in depth including fabric type covering yarns woven fabrics knitted fabrics nonwovens tufted fabrics textile composites laminated and coated textile fabrics and braided structures Finally structure and mechanics are approached from the viewpoint of key applications areas This book will be an essential source of information for scientists technologists engineers designers manufacturers and R D managers in the textile industry as well as academics and researchers in textiles and fiber science Provides methodical coverage of all essential fabric types including yarns woven fabrics knitted fabrics nonwovens tufted fabrics textile composites laminated and coated textile fabrics and braided structures Enables the reader to understand the mechanical properties and structural parameters of fabric at a highly detailed level Expanded update includes an analysis of fiber assemblies for key technical areas such as protective fabrics and medical textiles

***Industrial Waste Engineering*** Lawrence K. Wang,Mu-Hao Sung Wang,Yung-Tse Hung,2024-01-13 This volume discusses 1 the treatment of hazardous sludge wastewater textile effluent contaminated groundwater laboratory waste toxic dye heavy metals acid mine drainage and palm oil effluent 2 the technologies of stabilization solidification natural coagulation flocculation river catchment control and mitigation dredging and mining operations and 3 the management of acid mines laboratories nano pollutants and plant effluents

***Forensic Textile Science*** Debra Carr,2017-05-18 *Forensic Textile Science* provides an introduction to textile science emphasizing the terminology of the discipline and offering detailed coverage of the ways textile damage analysis can be used in forensics Part One introduces textiles and their role in forensics including chapters on fibers yarns and fabrics garment types and construction and household textiles Part Two covers analysis of textile damage in a forensic context Key topics include textile degradation and natural damage weapon and impact damage textile ripping and ballistic damage This book is an important reference point for all those interested in textile damage and the role of textiles in forensics including academics post graduate students and forensic scientists Offers various perspectives on forensic textile science from an international team of contributors Provides wide ranging coverage of textile damage analysis in the context of forensic investigations Includes chapters on fibers yarns and fabrics garment types and construction and household textiles

***Handbook of Properties of Textile and Technical Fibres*** A. R. Bunsell,2018-01-02 *Handbook of Properties of Textile and Technical Fibres* Second Edition introduces tensile properties and failure and testing of fibers also examining tensile properties and the failure of natural fibers such as cotton hemp flax agave

wool and silk Next the book discusses the tensile properties and failure of synthetic fibers ranging from polyamide polyester polyethylene and carbon fibers Chapters provide a general background of the fiber including its manufacture microstructure factors that affect tensile properties and methods to improve tensile failure With its distinguished editor and international contributors this book is an important reference for fiber scientists textile technologists engineers and academics Offers up to date coverage of new and advanced materials for the fiber and textile industries Reviews structure property relationships of high performance natural synthetic polymer and inorganic fibers Offers a range of perspectives on the tensile properties of fibers from an international team of authors with diverse expertise in academic research and in textile development and manufacture

**Forensic Biomechanics** Jules Kieser, Michael Taylor, Debra Carr, 2012-09-20 Biomechanics is the application of mechanical principles to living organisms and it is one of the most exciting and fastest growing research areas In forensic science it is biomechanics that explains trauma to the body at a crime scene or the fracture of fibers and textiles and helps interpret blood spatter Forensic Biomechanics is a comprehensive overview of the role of biomechanics in forensics Well illustrated with real life case studies and using a multidisciplinary approach this unique book is an invaluable reference for practicing forensic scientists lawyers and researchers

*Microplastic Pollution* Subramanian Senthilkannan Muthu, 2021-03-14 This book addresses the emergent need to act on reducing or getting rid of micro plastic pollution to achieve a sustainable environment Microplastics are small plastic pieces which are less than five millimeters long which can be harmful to our oceans and aquatic life These predominantly include microfibers from clothing microbeads and plastic pellets Microplastics impact aquatic creatures turtles and birds According to the first study on estimation of human ingestion of microplastic on average a person consumes at least 50 000 particles of microplastic a year and breathes a similar quantity Ingested microplastic particles can physically damage organs and also compromise immune function and stymie growth and reproduction This book presents six informative chapters in order to alleviate the above mentioned issues

**Specialist Yarn and Fabric Structures** R H Gong, 2011-09-14 Specialist yarn woven and fabric structures are key elements in the manufacturing process of many different types of textiles with a variety of applications This book explores a number of different specialist structures discussing the developments in technology and manufacturing processes that have taken place in recent years With its distinguished editor and international team of contributors Specialist yarn woven and fabric structures is essential reading for all textile researchers technicians engineers and technologies and will also be suitable for academic purposes Looks at developments that have occurred in the manufacturing of specialist yarn weave and fabric structures Discusses different types of specialist yarn structures such as hybrid fancy and compound yarns Offers insight into multicomponent fabric structures such as 3D nonwovens flocked knotted and jacquard woven fabrics

*Biocomposites* Brajesh Kumar, 2022-03-30 Biocomposites are composite materials consisting of either a polymer matrix or a filler based on biological resources They have been widely used in numerous applications such as storage devices photocatalysts packaging



furniture biosensors energy construction the automotive industry and so on due to their great versatility and satisfactory performance This book focuses on composites made from natural materials natural fibers and biopolymers and relates their physical mechanical electrical structural and biological characteristics as well as their potential applications in biomedicine pharmaceuticals and engineering

Technical Textile Yarns R Alagirusamy, Apurba Das, 2010-06-30 Technical yarns are produced for the manufacture of technical textiles As the range of technical textiles is rapidly increasing an understanding of the range of yarns available and their properties is important in order to be able to meet the requirements of the intended end use Part one of the book begins by reviewing the advances in yarn production Topics examine the advances in textile yarn spinning modification of textile yarn structures yarn hairiness and its reduction and coatings for technical textile yarns The second group of chapters describes the range of technical yarns such as electro conductive textile yarns novel yarns and plasma treated yarns for biomedical applications Technical sewing threads and biodegradable textile yarns are also discussed Technical textile yarns provides essential reading for yarn and fabric manufacturers textile scientists technicians engineers and technologists covering a wide range of areas within textile applications This book will also be an important information source for academics and students Provides a comprehensive overview of the variety of technical textile yarns available along with individual characteristics and production methods Documents advances in textile yarn spinning and texturising featuring compact rotor and friction spinning Assesses different types of technical yarns including plasma treated yarns for biomedical applications and hybrid yarns for thermoplastic composites

**Cut Protective Textiles** Daniel (Xuedong) Li, 2020-03-23 Cut Protective Textiles is a comprehensive guide to the background theory industrial testing methods regulations applications and material characteristics important to those working with cut protective textiles This book will help readers understand the pitfalls of assessing cut performance and how to translate that understanding into innovative concepts for their research or product development Detailed coverage of the properties of cut resistant textiles includes information on fibers yarns and fabrics providing a valuable resource for a wide range of researchers and practitioners The book s comparisons will help clear up confusion caused by different testing methods Finally the inclusion of methodologies for the creation of cut protective articles will help readers make full use of this book in a practical setting Explains global testing standards in detail also comparing their various strengths and weaknesses Provides cut resistance performance information for different materials Introduces the characteristics of the appropriate materials with supporting theory Draws on industry best practice to create a detailed guide to making cut resistant products

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