

FUNDAMENTALS  
*of*  
SPUN YARN  
TECHNOLOGY

Carl A. Lawrence



CRC Press  
Taylor & Francis Group

# Fundamentals Of Spun Yarn Technology

**Rose Sinclair**



## **Fundamentals Of Spun Yarn Technology:**

**Fundamentals of Spun Yarn Technology** Carl A. Lawrence, 2003-03-28 Existing textbooks covering the subject of yarn manufacture largely concentrate on describing the workings of machines Fundamentals of Spun Yarn Technology presents complete coverage of yarn manufacture and technology and current research findings on the structure and properties of spun yarns Written by a well known and respected authority on textile technology it not only introduces the subject but it provides students with an advanced understanding of the various process stages The book introduces the rudiments of staple yarn technology covering the manufacturing process the raw materials and processes including short staple worsted semiworsted and woollen spinning doubling and specialty yarn processes It also covers the more advanced studies in staple yarn technology including new developments in fiber preparation technology carding technology roller drafting gilling ring spinning open end rotor spinning air jet spinning and new research on unconventional spinning systems This extensive range of topics along with hundreds of tables and illustrations presented in Fundamentals of Spun Yarn Technology make it a comprehensive and up to date treatment of the field *Spun Yarn Technology* Eric Oxtoby, 2013-10-22 Spun Yarn

Technology provides a comprehensive review of the principles of spun yarn technology Chapters are devoted to topics on spun yarn technology such as yarn production properties of yarn opening and cleaning loose fibers fiber blending the process of carding and roller drafting doubling and fiber control The spinning process yarn folding yarn preparation winding tensioning splicing and steaming and storage and the kinds of specialty yarn are presented as well Textile technologists will find the text very useful **Wrap Yarn Technology** Francisco Javier Massó de Rafael, 2015 In textile world nearly all types

of yarns that one can imagine can be created Some of them are easier to create and some others have to deal with more accurate processes Those yarns made out of fibers which are difficult to be treated are sometimes wrapped by a filament in order to give them the consistence needed to develop the yarn These particular types of yarns are called wrap yarns According to that the primordial aim of the project is to set the ideas of a future prototype able to create wrap yarns To achieve it it has been done a general study of the existing machines and possible alternatives The prototype that is being sought would have to enable the study and creation of different types of wrap yarns For this reason it has been tried to develop a prototype able to deal with some particular features to create different types of yarns Those features taken into account are the following The prototype should have to be able to treat all types of length fibers long and short fibers The prototype should have to be able to create yarns out of ribbon or roving In order to accomplish the objective of the project first of all it has been studied what the prototype needs to have Once the general idea of the prototype has been set it has been discussed about how this idea could be achieved In other words which are the alternatives that can make the idea became into a reality Once the brainstorming of alternatives has reached all of the possibilities those which are more suitable are the ones that have been described and analyzed By now the possibility of developing the prototype looks more achievable

and more documented and studied Besides the main objective there are other two more simple objectives that are also wanted to be achieved Both objectives are related with extending the knowledge in textile engineering On the one hand the first aim is to get to know the fibers and their properties On the other hand familiarize with the manufacturing process that fibers follow to be converted into yarns and inquire into its last stage the spinning stage To achieve those objectives some books have been greatly useful Specifically The Rieter Manual of Spinning and Fundamentals of Spun Yarn Technology

*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

*Encyclopedia of Renewable and Sustainable Materials* ,2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO<sub>2</sub> emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

*Elastane in Sports and Medical Textiles* R. Rathinamoorthy,M. Senthilkumar,2023-03-10 Elastic garments have tremendous scope in the field of tight fit sportswear and healthcare

applications Research towards improvement in the elasticity of fibre yarn and fabrics and development in testing methods for elastic garments is the current requirement for the industrial product development This book covers elastane fibres elastane yarn and fabric production methods new attempts in yarn production commercial ways of fabric manufacturing techniques and the fabric properties new testing methods to test the elastic products and applications of elastic garments in sports and healthcare Features Provides comprehensive review process and application of elastane fibres Covers detailed information about manufacturing and testing methods of elastane fabrics Reviews technical aspects of elastane in sportswear and healthcare Discusses evaluation process for the elastane fabric performance Defines production methods of woven and knitted fabrics using elastane This book is aimed at students and researchers in textile engineering technology textile design human ecology and comfort material engineering sports sciences medical science and healthcare engineering Textile and Clothing Design Technology Tom Cassidy, Parikshit Goswami, 2017-11-15 In the textile industry there is a pressing need for people who can facilitate the translation of creative solutions from designers into manufacturing language and data The design technologist has to understand the elements and principles employed by designers and how these change for various textile media One must also have a good understanding of the processes materials and products for which the textile designer is required to produce creative solutions This book will be for designers wishing to improve their technological knowledge technologists wishing to understand the design process and anyone else who seeks to work at this design technology interface Key Features Provides a comprehensive information about textile production apparel production and the design aspects of both textile and apparel production Fills the traditional gap between design and manufacture changing with advanced technologies Includes brief summary of spinning weaving chemical processing and garmenting Facilitates translation of creative solutions from designers into manufacturing language and data Covers set of workshop activities

*Cotton Science and Processing Technology* Hua Wang, Hafeezullah Memon, 2020-11-08 This book summarizes all different fields of cotton fiber including genetics fiber chemistry soft materials textile and fashion engineering It also contains some new applications such as biomaterials nanocoated smart fabrics and functional textiles Moreover the significant improvement recently in gene modification and gene technology is introduced This book discusses all these aspects in a more straightforward way and new illustrations will help readers to understand the contents It is intended for undergraduate and graduate students who are interested in cotton science and processing technologies researchers investigating the updated applications of cotton in various fields as well as industrialists who want to have a quick review of the cotton and its different stages *Developments in Yarn Spinning Technologies* Arindam Basu, 2024-10-01 *Developments in Yarn Spinning Technologies* explores the recent advancements in yarn spinning technologies focusing on improving production and embracing sustainability While ring spinning remains popular newer developments in rotor spinning and natural fibre spinning systems are covered This book also addresses challenges including the circularity theory providing concise insights

into the evolving landscape of yarn spinning technologies Ideal for professionals and researchers alike this book offers valuable perspectives on the industry s dynamic changes Focuses on recent developments in spinning uncovering the evolving techniques and technologies that are reshaping the yarn production industry Addresses key technological challenges providing practical insights into overcoming obstacles and staying ahead in the rapidly evolving field Delves into the distinct properties of yarns examining how technological innovations impact and enhance their characteristics for improved performance Explores sustainable practices with a focus on recycled fibre processing

**Sustainability in Fashion and Apparels** M. Parthiban,M. R. Srikrishnan,P. Kandhavadiu,2018-02-21 This textbook addresses the pathway to reach sustainability in fashion business and apparel sectors This book contains various research papers originally contributed by different authors from various organizations who are all working towards the eco friendly manufacturing of apparel products This textbook provides approaches techniques alternative procedures sustainable routes to develop sustainable apparel in a more environmentally friendly manner for the future The research papers discussed in this book mainly focus on the various challenges put forth by the apparel industry with respect to environmentally friendly product manufacturing and also provides solutions to achieve the same through different principles and approaches which fulfil the production user and disposal ecological considerations The book will be really useful for academicians industry personnel and to textile and apparel students and scholars who wish to explore their knowledge and innovations in the field of sustainable apparel product manufacturing and processes

Textiles and Fashion Rose Sinclair,2014-11-08 This major textbook is designed for students studying textiles and fashion at higher and undergraduate level as well as those needing a comprehensive and authoritative overview of textile materials and processes The first part of the book reviews the main types of natural and synthetic fibres and their properties Part two provides a systematic review of the key processes involved first in converting fibres into yarns and then transforming yarns into fabrics Part three discusses the range of range of finishing techniques for fabrics The final part of the book looks specifically at the transformation of fabric into apparel from design and manufacture to marketing With contributions from leading experts in their fields this major book provides the definitive one volume guide to textile manufacture Provides comprehensive coverage of the types and properties of textile fibres to yarn and fabric manufacture fabric finishing apparel production and fashion Focused on the needs of college and undergraduate students studying textiles or fashion courses Each chapter ends with a summary to emphasise key points a comprehensive self review section and project ideas are also provided

*Engineering Textiles* Yehia Elmogahzy,2019-11-05 *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

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

**Engineering Techniques of Ring Spinning** Tasnim N. Shaikh, Someshwar S. Bhattacharya, 2016-01-05 Ring spinning is an age old technology used in the process of fibres to yarn conversion Its versatility in dealing with a wide range of materials in terms of type properties and even as an individual or blend is unbeaten This book provides a platform for critically evaluating various engineering and technical changes undergone in this legendary process and the scientific approach lying behind these changes

Nanotube Superfiber Materials Mark Schulz, Vesselin Shanov, Zhangzhang Yin, 2013-09-16 Nanotube Superfiber Materials refers to different forms of macroscale materials with unique properties constructed from carbon nanotubes These materials include nanotube arrays ribbons scrolls yarn braid and sheets Nanotube materials are in the early stage of development and this is the first dedicated book on the subject Transitioning from molecules to materials is a breakthrough that will positively impact almost all industries and areas of society Key properties of superfiber materials are high flexibility and fatigue resistance high energy absorption high strength good electrical conductivity high maximum current density reduced skin and proximity effects high thermal conductivity lightweight good field emission piezoresistive magnetoresistive thermoelectric and other properties These properties will open up the door to dozens of applications including replacing copper wire for power conduction EMI shielding coax cable carbon biofiber bullet proof vests impact resistant glass wearable antennas biomedical

microdevices biosensors self sensing composites supercapacitors superinductors hybrid superconductor reinforced elastomers nerve scaffolding energy storage and many others The scope of the book covers three main areas Part I Processing Part II Properties and Part III Applications Processing involves nanotube synthesis and macro scale material formation methods Properties covers the mechanical electrical chemical and other properties of nanotubes and macroscale materials Different approaches to growing high quality long nanotubes and spinning the nanotubes into yarn are explained in detail The best ideas are collected from all around the world including commercial approaches Applications of nanotube superfiber cover a huge field and provides a broad survey of uses The book gives a broad overview starting from bioelectronics to carbon industrial machines First book to explore the production and applications of macro scale materials made from nano scale particles Sets out the processes for producing macro scale materials from carbon nanotubes and describes the unique properties of these materials Potential applications for CNT fiber yarn include replacing copper wire for power conduction EMI shielding coax cable carbon biofiber bullet proof vests impact resistant glass wearable antennas biomedical microdevices biosensors self sensing composites supercapacitors superinductors hybrid superconductor reinforced elastomers nerve scaffolding energy storage and many others **Friction in Textile Materials** B S

Gupta,2008-06-02 Friction is a major issue in both the production of textiles and in the finished product This authoritative book reviews how friction occurs and the ways it can be measured and controlled The book begins by looking at how friction can be defined and how the structure and properties of textile fibres lead to friction behaviour It also discusses slip stick phenomena in textiles and ways of measuring friction in yarns and fabric The second part of the book reviews friction in particular textiles including cotton wool and synthetic fibres as well as woven fabrics These and other chapters also discuss ways of controlling friction including fabric finishes and lubricants With its distinguished editor and contributions from some of the world s leading authorities in the subject Friction in textile materials is a standard reference for the textile industry and those researching this important topic An authoritative review of friction its management and control Principles of Spinning Ashok R. Khare,2023-09-07 Principally focussed on the combing process the initial chapters of this book explain the basic functioning of the conventional comber which is not very different from modern combing Various associated motions with reference to certain timings along with importance are illustrated in detail Characteristics that set the modern comber apart are also discussed including speed and control of features such as vibrations and fatigue The role of modern electronics in mechanism control including related calculations and solved examples is described Features Exclusive title focussing on various elements of combing in spinning Includes detailed functioning of conventional and modern combers Explains various motions in combing pertaining to different timings Discusses the role of modern electronics in controlling the mechanisms and offering online controls Features solved examples at the end to tackle problems at the shop floor level This book is aimed at senior undergraduate graduate students textile process engineers and related manufacturing technologists quality



assurance professionals in textile engineering staple fibre processing spinning of staple fibres textile marketing design textile technology yarn manufacturing spinning machines and design of yarns

**Computer Technology for Textiles and Apparel** Jinlian Hu, 2011-07-14 Computer technology has transformed textiles from their design through to their manufacture and has contributed to significant advances in the textile industry Computer technology for textiles and apparel provides an overview of these innovative developments for a wide range of applications covering topics including structure and defect analysis modelling and simulation and apparel design The book is divided into three parts Part one provides a review of different computer based technologies suitable for textile materials and includes chapters on computer technology for yarn and fabric structure analysis defect analysis and measurement Chapters in part two discuss modelling and simulation principles of fibres yarns textiles and garments while part three concludes with a review of computer based technologies specific to apparel and apparel design with themes ranging from 3D body scanning to the teaching of computer aided design to fashion students With its distinguished editor and international team of expert contributors Computer technology for textiles and apparel is an invaluable tool for a wide range of people involved in the textile industry from designers and manufacturers to fibre scientists and quality inspectors Provides an overview of innovative developments in computer technology for a wide range of applications Covers structure and defect analysis modelling and simulation and apparel design Themes range from 3D body scanning to the teaching of computer aided design to fashion students Vortex Structures in Fluid Dynamic Problems Hector Perez-De-Tejada, 2017-03-01 The contents of the book cover topics on vortex dynamics in a variety of flow problems and describe observational measurements and their interpretation The book contains 13 chapters that first include vortices in the earth and planetary sciences related to vortices in the Venus plasma wake and also on tropical cyclones and on rotating shallow water in the earth's atmosphere Vortices in fluid problems include airplane wake vortices vorticity evolution in free shear flows together with axisymmetric flows with swirl as well as thermal conductivities in fluid layers Vortices in relativistic fluids in magnetic disks solitons and vortices and relaxation for point vortices were also examined Other chapters describe conditions in a vortex bioreactor and in vortex yarn structures

**Advanced Weaving Technology** Yordan Kyosev, Francois Boussu, 2022-04-02 This book sets the fundamentals of modern weaving at a new level It contains information for the design of woven structures with complex cross section and multiple layers for modern applications in the way that leading product developers professors and researchers are using them now It starts with the classical weaving principles and patterning and extends these quickly to multilayer structures produced with single and multiple weft insertion devices woven structures with complex cross section or direct 3D shape The engineering methods for design of the structures using modern software and modern algorithms are also explained Finally an overview of different application areas is given The book is written by the world leading experts in their fields and is prepared as learning tool for people interested in modern weaving Exercises and end of chapter summaries will help the

reader to check his own knowledge

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