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TEXTILE SCIENCE AND TECHNOLOGY

TYRONE L. VIGO

TEXTILE PROCESSING AND PROPERTIES

Preparation, Dyeing,
Finishing and Performance

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Textile Processing And Properties

Rajkishore Nayak



Textile Processing And Properties:

Textile Processing and Properties T.L. Vigo, 2013-10-22 The type and amount of textile products have greatly proliferated over the last decade Concomitant textile processing to improve the properties and ultimate performance has also undergone dramatic changes Ready availability of instrumentation computers lasers and integration of these advances with similar progress in polymer material science have led to the need for a unified discussion on these topics The current book concisely discusses all aspects of textile processing modification and performance for four major topics preparation by fiber type dyeing and printing dye type theory and synthesis dye classification by structure and application improving functional and aesthetic textile properties physical chemical and physicochemical processes and concepts and performance chemical analysis instrumental methods physical chemical biological multiple influences and standard tests A detailed and logical progression from the initial purification of textiles to their performance and care is described The book will be useful as a text for textile polymer courses at undergraduate and graduate levels and as a comprehensive source of information for textile scientists engineers manufacturers retailers and others with an interest in textile products Textile Processing and Properties

Tyrone L. Vigo, 1997-01-01 Paperback The type and amount of textile products have greatly proliferated over the last decade Concomitant textile processing to improve the properties and ultimate performance has also undergone dramatic changes Ready availability of instrumentation computers lasers and integration of these advances with similar progress in polymer material science have led to the need for a unified discussion on these topics The current book concisely discusses all aspects of textile processing modification and performance for four major topics preparation by fiber type dyeing and printing dye type theory and synthesis dye classification by structure and application improving functional and aesthetic textile properties physical chemical and physicochemical processes and concepts and performance chemical analysis instrumental methods physical chemical biological multiple influences and standard tests A detailed and logical progression from *Textile Processing with Enzymes*

A Cavaco-Paulo, G Gubitz, 2003-08-31 With the increasingly important requirement for textile manufacturers to reduce pollution in textile production the use of enzymes in the chemical processing of fibres and textiles is rapidly gaining wider recognition because of their non toxic and eco friendly characteristics They can be safely used in a wide selection of textile processes such as de sizing scouring bleaching dyeing and finishing where the alternatives are very harsh chemicals whose disposal into the environment causes many problems Textile processing with enzymes aims to provide the textile technologist with an understanding of enzymes and their use with textile materials and in process engineering It covers all the relevant aspects of textile processing with enzymes from the chemical constitution and properties of textile materials as potential substrates for enzymes to the processing of these materials from basic biochemistry and enzymology to the industrial application of these biocatalysts The introductory chapter contains an historic overview of the subject followed by an overview of the fundamental aspects of enzymes determining catalytic properties

There is also a review of non fibrous materials as substrates for enzymes Chapter four covers catalysis and processing providing an analysis of the function and application of enzymes used in textile processing The fifth chapter offers important insights in process engineering and describes major problems of industrial applications of enzymes in textiles Chapter six discusses practical aspects of handling with enzymes Enzyme stabilities operational and storage stabilities are discussed in detail along with health and safety issues The final chapter deals with the potential of enzymes in textile effluent treatment It is a valuable resource for anyone interested in the use of enzymes in textiles including textile students scientists and engineers with a background in textiles biotechnology chemistry and process engineering Aims to provide the textile technologist with an understanding of enzymes and their use with textile materials and in process engineering Covers the relevant aspects of textile processing with enzymes from the chemical constitution and properties of textile materials as potential substrates for enzymes to the processing of these materials Outlines the benefits of using enzymes in the chemical processing of fibres and textiles thanks to their non toxic and eco friendly characteristics

Textile Chemistry Thomas Bechtold,Tung Pham,2023-04-03 Textile and fibre chemistry form the theoretical basis to understand production and properties of textile based products In this 2nd edition fundamentals of textile chemistry and theoretical and applicatory aspects of colour chemistry are interconnected to draw detailed picture of chemical reactions occurring during production and modification of textile products An overview about chemical modification finishing operations is given to explain how to impart special functionalities into functional products Examples for technical scale processes and representative machinery used therein give insight into the technical reality of a dyehouse A new chapter about circularity of textiles highlights the interlinkage between product design including dyes and finishes and the requirements to develop future fibre to fibre recycling The work covers all relevant aspects of a textile product from fibre production coloration finishing consumer use and fibre to fibre recycling The content of the book allows a first entry into this multi disciplinary field Through its comprehensive character the authors explain the interdependence between textile and fibre processing and aspects of recycling which makes the work a valuable source of information to design future textiles for circularity

Scientific and Technical Aerospace Reports ,1994 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

Fibers for Technical Textiles Sheraz

Ahmad,Abher Rasheed,Yasir Nawab,2020-08-21 This book discusses the properties of fibres used in manufacturing technical textiles highlighting the importance of material selection in terms of cost end user requirements and properties It also discusses the classification of technical textiles and describes the details of each category such as the properties applications advantages and drawbacks As such it is a valuable resource for all those interested in advanced textiles

Sustainable

Fibres for Fashion and Textile Manufacturing Rajkishore Nayak,2022-10-23 Sustainable Fibres for Fashion and Textile Manufacturing presents the latest technical information about innovative natural and synthetic materials helping the reader to understand sustainable fibres and raw materials for fashion and textile manufacturing With a particular focus on apparel manufacturing different applications of sustainable fibres are explored along with manufacturing techniques and details of the material properties New research investigating nontraditional sources of textile fibres such as lotus orange milk seaweed corn and mushroom are all presented providing a uniquely comprehensive resource Drawing on work by contributors from a variety of fields and roles in industry and academia this book shares solutions and new perspectives on this interdisciplinary topic more widely in the hope of leading to research breakthroughs Shares a wealth of valuable data and results from research into sustainable cellulosic lingo cellulosic and protein fibres Includes full technical descriptions of newly explored sustainable fibres including chemical structures and structural properties Presents a strong focus on improving sustainability of the industry through practical measures spanning disciplinary boundaries to address this complex issue

Sustainable

and Nonconventional Construction Materials using Inorganic Bonded Fiber Composites Holmer Savastano Junior,Juliano Fiorelli,Sergio Francisco Dos Santos,2017-06-13 Sustainable and Nonconventional Construction Materials Using Inorganic Bonded Fiber Composites presents a concise overview of non conventional construction materials with a strong focus on alternative inorganic bonded fiber composites and their applications as construction components It outlines the processing and characterization of non conventional cementitious composites which will be of great benefit to both academic and industrial professionals interested in research development and innovation on inorganic bonded fiber composites The book gives a comprehensive review of the innovative research associated with building components based on inorganic bonded composites Exploring both natural fibers as reinforcing elements and alternative inorganic binders based on agricultural and industrial wastes this book also considers the performance and applications of fibrous composites as construction materials and components Dedicated to analyzing recent developments in inorganic fiber composites research Discusses the broader

subjects of processing characterization performance and applications of non conventional construction materials

Advanced Processing, Properties, and Applications of Starch and Other Bio-based Polymers Faris M. Al-Oqla, S. M. Sapuan, 2020-07-30 Advanced Processing Properties and Applications of Starch and Other Bio based Polymers presents the latest cutting edge research into the processing and applications of bio based polymers for novel industrial applications across areas including biomedical and electronics The book is divided into three sections covering processing and manufacture properties and applications Throughout the book key aspects of sustainability are considered including improved utilization of available natural resources sustainable design possibilities cleaner production processes and waste management Focuses on starch based polymers examining the latest advances in processing and applications with this valuable category of biopolymer Highlights industrial sustainability considerations at all steps of the process including when sourcing materials designing and producing products and dealing with waste Supports the processing and development of starch and other bio based polymers with enhanced functionality for advanced applications

High Performance Textiles and Their Applications C. Lawrence, 2014-08-21 High performance textiles represent one of the most dynamic sectors of the international textile and clothing industry With contributions from leading experts in the field this book provides an important overview of key developments in the field Chapters cover the use of high performance textiles in such areas as protective clothing heat and fire protection medicine civil engineering and the energy sector Reviews various approaches to modelling the geometry structure and mechanical and physical properties of advanced textile materials Evaluates novel surface treatments involving plasma and laser technologies for a range of high performance textiles Focuses on textiles for specific purposes with chapters devoted to textiles for heat and fire protection wound care industrial filtration geotextiles civil engineering and sustainable energy applications

Applications of Biotechnology for Sustainable Textile Production O.L. Shanmugasundaram, 2021-09-18 Applications of Biotechnology for Sustainable Textile Production is a practical guide to the fundamentals methods and future prospects for sustainable biotechnological and nanobiotechnological approaches to textile production The textile industry is highly motivated to reduce its use of natural resources reduce waste and cost Processes such as dyeing printing and finishing fabrics traditionally require a lot of water and can produce hazardous wastes as a by product In order to help improve these processes this book evaluates different technologies comparing them as ways of saving water energy material waste and time in addition to the reduction of wastewater and sludge Technologies investigated include enzymatic treatments ultrasonic treatments advanced cotton fiber pre treatment to increase dye receptivity nano biotechnology plasma technology and foam technology in the finishing process Health risk assessments and complications resulting from usage of chemicals and other traditional processing technologies are also examined Addresses all five main stages of textile processing including pre treatment dyeing finishing drying and quality control Provides an overview of the techno economic context of the modern textile industry explaining where sustainability fits with other

priorities Includes case studies throughout showing how these methods can be used for sustainable textile production

Roadmap to Sustainable Textiles and Clothing Subramanian Senthilkannan Muthu, 2014-06-02 This book covers the elements involved in achieving sustainability in the textiles and clothing sector The chapters covered in different volumes of this series title aim to cover all the distinctive areas earmarked for achieving sustainable development in the textile and clothing industry This first volume is dedicated to the initial phases of life cycle i e raw materials and manufacturing phases of textile products This book aims to cover the sustainable raw materials technologies and processing methods to achieve sustainable textile products There are plenty of raw materials available today to cater the needs of sustainable textiles and apparels including organic materials recycled and biodegradable raw materials for textile applications Similarly many innovative methods to process textile materials to achieve sustainability in the supply chain along with various processing technologies to manufacture textile products sustainably This first volume covers the titles of these areas in a comprehensive way

Advances in Polymer Coated Textiles Gueneri Akovali, 2012-07-24 Polymer coated textiles are known as engineered composite materials at macro scale Coating can offer significant improvements to the substrate mainly of the physical like impermeability and fabric abrasion and or of overall chemical properties as well as the appearance by combining advantages of the components Polymer coated systems employ various kinds of textile substrate structures available mostly of technical textiles Since there are a number of possibilities for different types of polymers and their combinations textile structures as well as their combinations are possible it is widely open to creativities and almost every day some new innovative application is being introduced Polymer coated textile industry being parallel to the developments in the textile research is so dynamic that today applications like reactive coatings with nanoparticles with self cleaning self sterilizing surfaces systems with conductive polymer coatings to provide EM shielding electronic textile systems with body monitoring properties environmental responsive systems etc are already somewhat classical and are considered almost left in the shade of incoming new developments This book is an up to date summary of the subject by considering the passage from conventional to emerging technologies Criteria for selection of the coat and textile are considered and the manufacturing basics of the system are summarized Emerging technologies and applications including smart intelligent and nanostructured applications are completed by testing and quality control methods of these systems The book is written for all that are interested in this interdisciplinary area it certainly will prove to be of great help to textile and polymer technologists to engineers to scientists as well as to students

Handbook of Technical Textiles A. Richard Horrocks, Subhash C. Anand, 2016-03-09 The first edition of Handbook of Technical Textiles has been an essential purchase for professionals and researchers in this area since its publication in 2000 With revised and updated coverage including several new chapters this revised two volume second edition reviews recent developments and new technologies across the field of technical textiles Volume 2 Technical Textile Applications offers an indispensable guide to established and developing areas in the use of

technical textiles The areas covered include textiles for personal protection and welfare such as those designed for ballistic protection personal thermal and fire protection and medical applications textiles for industrial transport and engineering applications including composite reinforcement and filtration and the growing area of smart textiles Comprehensive handbook for all aspects of technical textiles Provides updated detailed coverage of processes fabric structure and applications Ideal resource for those interested in high performance textiles textile processes textile processing and textile applications Many of the original recognized experts from the first edition update their respective chapters

Textiles for Protection Richard A. Scott, 2005-10-30 In today's climate there is an increasing requirement for protective textiles whether for personal protection protection against the elements chemical nuclear or ballistic attack This comprehensive book brings together the leading protective textiles experts from around the world It covers a wide variety of themes from materials and design through protection against specific hazards to specific applications This is the first book of its kind to give a complete coverage of textiles for protection Covers a wide variety of themes from materials and design through protection against specific hazards to specific applications The first book of its kind to give a complete coverage of textiles for protection Written by leading protective textiles experts from around the world

Textile Chemicals K. Lacasse, Werner Baumann, 2012-12-06 Clothing is an inherent necessity for human beings Textiles protect us from unfavourable weather and other environmental calamities Moreover textiles are instruments of social and cultural affiliation and self acceptance while at the same time fulfilling our desire for individuality These reasons motivated textile development that results in ever more sophisticated clothing in all ethnic societies today Fashion becomes something like body language a second skin that accentuates style and rank sex and power or their opposites In our modern society fashion attains a new dimension as synthetic fibres are manufactured and new chemical finishing treatments developed Considering the wool of a sheep and an end fashioned pullover it is evident that in course of time textiles have become complicated Trying to answer the question how does the sheep fibre become the pullover is simultaneously the answer of what is textile finishing Almost 2500 different chemicals can be used to colour and prepare a certain fibre in such a way that it will be able to fulfil modern functionalized requirements such as having easy care proper ties etc

Chemical and Process Industries Osei-Wusu Achaw, Eric Danso-Boateng, 2021-08-09 This textbook presents a thorough overview of chemical and process industries It describes the standard technologies and the state of the industries and the manufacturing processes of specific chemical and allied products It includes examples of industries in Ghana highlighting the real world applications of these technologies The book introduces new developments in the processes in chemical industry focuses on the technology and methodology of the processes and the chemistry underlying them It offers guidance on operating of processing units Furthermore it includes sections on safety and environmental pollution control in industry With a pedagogical and comprehensive approach utilizing illustrations and tables this book provides students in chemical engineering and industrial chemistry with a concise and up to

date overview of this diverse subject Introduction to Textile Fibres H. V. Sreenivasa Murthy, 2018-10-08 Introduction to Textile Fibres provides necessary information for beginners In many textile institutions this book was widely referred by students and staff for teaching diploma and degree courses In 1989 the book won the coveted Best Technical Book in Textile Century Mills Award through Textile Association India This revised edition of the book offers new topics and updated statistical figures Textile Engineering Yasir Nawab, Khubab Shaker, 2023-06-06 With the growth of applications of textiles in various multidisciplinary domains e g clothing home textiles and technical applications there is a need of book covering fundamentals of textiles This introductory level textbook is geared toward the introduction of textile engineering This book is beneficial for all readers who are going to start their career in textiles or related domains or are going to start an engineering degree in textiles

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web pathway of the sperm through the female reproductive tract vagina cervix uterus uterine tube peritoneal cavity 18 define ovulation ejection of an egg actually an oocyte from the ovary microscopic anatomy of selected male and female reproductive organs 19 the testis is divided into a number of lobes by connective tissue

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