

Advanced fiber spinning technology

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Advanced Fiber Spinning Technology Advanced Fiber Spinning Technology

Ivana Markova



Advanced Fiber Spinning Technology Advanced Fiber Spinning Technology:

Advanced Fiber Spinning Technology T. Nakajima,1994-01-01 Translated from Japanese this book details some of the most interesting developments of the last few decades in the field of fibre manufacture Many of these have been the result of intensive study in industry and research institutes in Japan the country at the forefront of research in fibre spinning technology

Advanced Fiber Spinning Technology T. Nakajima,K. Kajiwaru,J. E. McIntyre,1994-01-15 Some of the most interesting developments of the last few decades in the field of fiber production have been the result of intensive study in Japanese industry and research institutes This book was originally published in Japanese by the Society of Fiber Science and Technology Japan in order to present a thorough scientific and technological review of advances in fiber production and is now published in English In addition to providing an extensive review of recent breakthroughs in fiber spinning technology this popular book illustrates how R D can pay off in terms of commercial success in the textiles marketplace **Handbook**

of Fiber Chemistry Menachem Lewin,2006-11-15 The Handbook of Fiber Chemistry Third Edition provides complete coverage of scientific and technological principles for all major natural and synthetic fibers Incorporating new scientific techniques instruments characterization and processing methods the book features important technological advances from the past decade particularly New Millennium Fibers Tatsuya Hongu,Machiko Takigami,Glyn O. Phillips,2005-05-25

Looking forward to the future it is clear that today s narrow concept of fiber as a basic element for textiles ropes and nets will become an outmoded notion The emphasis will instead shift to new and exciting developments in fiber technology and their applications exploring such fields as biomimetics nanotechnology and biodegradability New millennium fibers describes and identifies the scope of high tech fibers The present status and prospects of the fiber textile technology are discussed and the high performance fibers are reviewed from origin to future applications including carbon fiber The themes of the book are summarised with a discussion on health care and the environment As the 21st century progresses fibers will enter into more novel and unexpected applications We are approaching the age of the wearable computer and organic electroluminescence wearable displays New potential is open in the fields of car and aerospace industry civil engineering separation membranes using hollow fibers for artificial organs biodegradable fiber for ecological conservation and fibers with biological functions New millennium fibers explores the exciting roles that fibers will play in the future and will be an essential book for all of those in the textile and fashion industry involved in fiber development or use Keep up to date with the advances in fiber science Explores new and exciting developments in fiber technology Includes applications of new millennium fibers *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 CO₂ 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

Handbook of Textile Fibre Structure Stephen Eichhorn, J. W. S. Hearle, M Jaffe, T Kikutani, 2009-10-19 Due to their complexity and diversity understanding the structure of textile fibres is of key importance This authoritative two volume collection provides a comprehensive review of the structure of an extensive range of textile fibres Volume 1 begins with an introductory set of chapters on fibre structure and methods to characterise fibres The second part of the book covers the structure of manufactured polymer fibres such as polyester polyamides polyolefin elastomeric and aramid fibres as well as high modulus high tenacity polymer fibres Chapters discuss fibre formation during processing and how this affects fibre structure and mechanical properties A companion volume reviews natural regenerated inorganic and specialist fibres Edited by leading authorities on the subject and with a team of international authors the two volumes of the Handbook of textile fibre structure is an essential reference for textile technologists fibre scientists textile engineers and those in academia The first title of a authoritative two volume collection that provides a comprehensive review of the structure of a range of textile fibres Provides an overview of the development of fibre structure and methods to characterise fibres Examines the structure of both traditional and new fibres and natural and manufactured fibres

Manufactured Fibre Technology V.B. Gupta, V.K. Kothari, 2012-12-06 Manufactured Fibre Technology provides an accessible and comprehensive treatment of the chemical physical and mechanical processes involved in the production of all important commodity manufactured fibres and most of the industrial fibres The emphasis is on the fundamental principles and industrial aspects of production Latest developments in manufactured fibres in terms of manufacturing processes characteristics and their applications are also covered Manufactured Fibre Technology is designed

around twenty chapters with a balance of basic principles and production of specific fibre types Newer and industrially relevant areas such as high speed spinning production of speciality fibres including microfibres computer simulation of spinning high performance fibres spun bonding and melt blowing and re use of fibre waste are included The structure property and application areas of each fibre type are also discussed thus providing a broad understanding of the subject In addition various aspects related to the testing and characterisation of fibres and polymers are reviewed This book is an invaluable resource to students lecturers industrial technologists and researchers in this subject area

Identification of Textile Fibers M M Houck, 2009-01-30 The identification of fibers is important to the textile industry forensic science fashion designers and historians among others Identifying fibers involves observing the physical and chemical properties of the fiber for which there are a wide diversity of instruments available This book provides a comprehensive review of fiber structure the diversity of instruments available to identify fibers and applications for a range of industries The first part of the book examines the main fibers their structure and characteristics Part two focuses on methods of fiber identification ranging from microscopic to DNA analysis Specific applications including how textiles are identified in forensic investigations Identification of textile fibers is an important text for forensic scientists police and lawyers who may be involved with the use of textile fibers to provide evidence in criminal cases It will also be relevant for textile designers technologists and inspectors wishing to assess fiber quality and understand fiber damage Provides a comprehensive review of the main types of fibre together with their structure characteristics and identification Assesses methods of fibre identification from optical microscopy to DNA analysis as well as instruments available to identify fibres

Reference Book for Composites Technology Stuart M. Lee, 1989-03-30 The eleven contributions comprising the first volume address topics that include the history of composites epoxy resins fiber reinforced glasses and glass ceramics for high performance applications aramid fiber reinforcements specifically Vniivlon Polyamidobenzimidazole the USSR s aramid fiber forming polymer Volume two 565 4 has nine articles on among other subjects environmental effects prediction of failure strength of anisotropic materials properties characterization creep No index in either book Acidic paper Annotation copyrighted by Book News Inc Portland OR

Fiber Fracture M. Elices, J. Llorca, 2002-11-15 The idea for this book came out of the EURESCO Conference on High Performance Fibers Euroconference on Fiber Fracture in 2000 Many of the books that are currently available look at different aspects of fiber processing properties or applications but none are focussed on the fracture behaviour of fibers This book presents the mechanisms and models of fiber fracture currently available for both natural and synthetic fibers and it is expected that increasingly there will be cross fertilization between the fields opening new frontiers in academic research and more competitive products for industry It covers the following areas of fiber fracture ceramic fibers glass fibers carbon fibers metallic fibers and thin wires polymeric fibers and carbon nanotubes

Handbook of Nonwoven Filter Media Irwin M. Hutten, 2007-03-23 The increasing importance of nonwoven filter media is due in part to their versatility they are used in the

pre filtration of liquids protection of membrane filters gaseous filtration the automotive industry air purification wet filtration and many household uses Despite this no comprehensive account of these media has existed until now Irwin Marshall Hutten is well known throughout the nonwoven industry and brings enormous experience and knowledge to this Handbook All aspects of the properties formation materials types of filters applications test methods and standards are to be found within this volume Provides practical advice on applications of nonwoven filter media Discusses in detail the raw materials and manufacturing process Offers definitions and classifications for nonwoven filter media

Handbook of Tensile Properties of Textile and Technical Fibres A. R. Bunsell, 2009-10-19 Fibres usually experience tensile loads whether they are used for apparel or technical structures Their form which is long and fine makes them some of the strongest materials available as well as very flexible This book provides a concise and authoritative overview of tensile behaviour of a wide range of both natural and synthetic fibres used both in textiles and high performance materials After preliminary chapters that introduce the reader to tensile properties failure and testing of fibres the book is split into two parts Part one examines tensile properties and failure of natural fibres such as cotton hemp wool and silk Part two discusses the tensile properties and failure of synthetic fibres ranging from polyamide polyester and polyethylene fibres to carbon fibres Many chapters also provide a general background to the fibre including the manufacture microstructure factors that affect tensile properties as well as methods to improve tensile failure With its distinguished editor and array of international contributors Handbook of tensile properties of textile and technical fibres is an important reference for fibre scientists textile technologists and engineers as well as those in academia Provides an overview of tensile behaviour of a wide range of both natural and synthetic fibres Examines tensile characteristics tensile failure of textiles fibres and factors that affect tensile properties Discusses microstructures and each type of fibre from manufacture to finished product

Textile Fiber Microscopy Ivana Markova, 2019-04-29 A groundbreaking text to the study of textile fibers that bridges the knowledge gap between fiber shape and end uses Textile Fiber Microscopy offers an important and comprehensive guide to the study of textile fibers and contains a unique text that prioritizes a review of fibers microstructure macrostructure and chemical composition The author a noted expert in the field details many fiber types and includes all the possible fiber shapes with a number of illustrative micrographs The author explores a wealth of topics such as fiber end uses fiber source and production a history of each fiber and the sustainability of the various fibers The text includes a review of environmentally friendly fibers and contains information on the most current fiber science by putting the focus on fibers that have been mechanically or chemically recycled for use in textile production The author also offers an exploration of issues of textile waste and the lack of textile recycling that can help public policymakers with ways to inform and regulate post industrial and post consumer textile waste issues This vital guide Contains an accompanied micrograph for many fibers presented Includes information on how fiber microstructure is connected to fabric properties and how it affects the end use of fabrics Offers a review of the sophistication

of textile fibers from a scientific point of view Presents a comparative textile fiber review that is appropriate for both for students textile experts and forensic scientists Written for students and professionals of apparel design and merchandising and forensic scientists Textile Fiber Microscopy presents an important review of textile fibers from a unique perspective that explores fibers microstructure macrostructure and chemical composition Applications of Calorimetry in a Wide Context Amal Ali Elkordy,2013-01-23 Calorimetry as a technique for thermal analysis has a wide range of applications which are not only limited to studying the thermal characterisation e g melting temperature denaturation temperature and enthalpy change of small and large drug molecules but are also extended to characterisation of fuel metals and oils Differential Scanning Calorimetry is used to study the thermal behaviours of drug molecules and excipients by measuring the differential heat flow needed to maintain the temperature difference between the sample and reference cells equal to zero upon heating at a controlled programmed rate Microcalorimetry is used to study the thermal transition and folding of biological macromolecules in dilute solutions Microcalorimetry is applied in formulation and stabilisation of therapeutic proteins This book presents research from all over the world on the applications of calorimetry on both solid and liquid states of materials

Cut Protective Textiles Daniel (Xuedong) Li,2020-03-25 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 **Genetics and Genomics of Cotton** Andrew H. Paterson,2009-03-11 A few members of the Gossypium cotton genus are cultivated for the production of elongated single celled fibers valued worldwide at about 20 billion annually at the farm gate and which sustain one of the world s largest industries textiles with an annual worldwide economic impact of about 500 billion In a number of ways cotton production and the textile industry are closely tied to petrochemical usage At a practical level cotton genomics offers both bio based carbon sequestration alternatives to petrochemical use and improved sustainability of crop production The Gossypium cotton also genus presents novel opportunities to advance our understanding of the natural world and its organic evolution In particular the evolution of cultivated cottons from their wild ancestors has involved a fascinating series of events that offer scientists the opportunity to dissect the evolution of a novel organ the lint fiber and also to unravel the consequences of polyploidy both for the generation of biodiversity and for crop productivity In this book advances of the past decade will be summarized and synthesized to elucidate the current state of knowledge of the structure function and evolution of the Gossypium genome and progress in

the application of this knowledge to cotton improvement This book will address five broad topics First as a backdrop for all studies of the genus it is important to understand the naturally occurring diversity in the genus its organization and distribution and its evolutionary history Of special importance is the formation of a single polyploid from two among 8 diploid genome types the radiation of this polyploid and the domestication and improvement of two among 5 extant polyploid species

Advances in Diverse Industrial Applications of Nanocomposites Boreddy Reddy, 2011-03-22 Nanocomposites are attractive to researchers both from practical and theoretical point of view because of combination of special properties Many efforts have been made in the last two decades using novel nanotechnology and nanoscience knowledge in order to get nanomaterials with determined functionality This book focuses on polymer nanocomposites and their possible divergent applications There has been enormous interest in the commercialization of nanocomposites for a variety of applications and a number of these applications can already be found in industry This book comprehensively deals with the divergent applications of nanocomposites comprising of 22 chapters

Fundamentals and Applications of Micro and Nanofibers Alexander L. Yarin, Behnam Pourdeyhimi, Seeram Ramakrishna, 2014-05-08 A comprehensive exposition of micro and nanofiber formation processes from physical foundations to production and applications

Electrospun Nanofibres Chandrasekar Muthukumar, Senthilkumar Krishnasamy, Senthil Muthu Kumar Thiagamani, Mariyappan Shanmugam, 2023-12-05 Electrospinning is a versatile method to synthesize fiber materials Electrospun Nanofibres Materials Methods and Applications explores the technical aspects of electrospinning methods used to derive a wide range of functional fiber materials and their applications in various technical sectors As electrospinning is a process that can be modified strategically to achieve different fibers of interest this book covers the wide spectrum of electrospinning methodologies such as coaxial triaxial emulsion suspension electrolyte and gas assisted spinning processes It Discusses a broad range of materials including synthetic polymers biodegradable polymers metals and their oxides hybrid materials nonpolymers and more Reviews different electrospinning methods and combined technologies Describes process related parameters and their influence on material properties and performance Examines modeling of the electrospinning process Highlights applications across different industries This book is aimed at researchers professionals and advanced students in materials science and engineering

High-Performance and Specialty Fibers Japan The Society of Fiber Science and Techno, 2016-08-16 This book reviews the key technologies and characteristics of the modern man made specialty fibers mainly developed in Japan Since the production of many low cost man made fibers shifted to China and other Asian countries Japanese companies have focused on production of high quality high performance super fibers as well as highly functionalized fibers so called Shin gosen Zylon™ and Dyneema™ manufactured by Toyobo Technora™ produced by Teijin and Vectran™ developed by Kuraray are those examples of super fibers Carbon fibers Torayca™ from Toray have occupied the most advanced high performance application area Various types of polyester fibers having design shaped cross

sections and special fiber morphologies and those showing specific physico chemical properties have also been developed to acquire a high value textile market of the world This book describes how these high tech fibers have been developed and what aspects are the most important in each fiber based on its structure property relationship Famous specialists both in industry and academia are responsible for the contents explaining the design concepts and the special technologies for the production of these special fibers For university teachers and students this volume is an excellent textbook that elucidates the basic concepts of modern fibers At the same time researchers both in academia and industry will find a comprehensive overview of recent man made fibers This publication presenting the most easily understandable general survey of specialty man made fibers to date is dedicated to the 70th anniversary of the Society of Fiber Science and Technology Japan

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