

Epub free The chemistry of textile fibres (Download Only)

a comprehensive survey of the natural fibres animal vegetable and mineral on which we depended for our textiles until comparatively recently textiles are ubiquitous materials that many of us take for granted in our everyday lives we rely on our clothes to protect us from the environment and use them to enhance our appearance textiles also find applications in transport healthcare construction and many other industries the revised and updated 2nd edition of the chemistry of textile fibres highlights the trend towards the synthesis from renewable resources of monomers for making synthetic fibres it contains new information on the influence of legislation and the concerns of environmental organisations on the use of chemicals in the textile industry new sections on genetically modified cotton anti microbial materials and spider silk have been added as well as a new chapter covering functional fibres and fabrics this book provides a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to the high performance fibres that are very technologically advanced readers will gain an appreciation of why particular types of fibre are used for certain applications through understanding the chemistry behind their properties students following a level courses or equivalent and first year undergraduate students reading textile technology subjects at university will find this book a valuable source of information first published in 1962 and now in its fourth edition physical properties of textile fibres has become a classic providing the standard reference on key aspects of fibre performance the new edition has been substantially reorganised and revised to reflect new research after introductory chapters on fibre structure testing and sampling the book reviews key fibre properties their technical significance factors affecting these properties and measurement issues each chapter covers both natural and synthetic fibres including high performance fibres the book first reviews properties such as fineness length and density it then considers thermal properties and reaction to moisture a further group of chapters then reviews tensile properties thermo mechanical responses fibre breakage and fatigue finally the book discusses dielectric properties electrical resistance and static optical properties and fibre friction written by one of the world s leading authorities the fourth edition of physical properties of textile fibres consolidates its reputation as a standard work both for those working in the textile industry and those teaching and studying textile science a standard reference on key aspects of fibre performance an essential read and reference for textile technologists fibre scientists textile engineers and those in academia provides substantial updated material on fibre structure and new test methods data and theories regarding properties of textile fibres 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 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres part two considers regenerated cellulosic protein alginate chitin and chitosan fibres the final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres chapters review how fibre structure contributes to key mechanical properties a companion volume reviews the structure of manufactured polymer 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 discusses how fibre structure contributes to key mechanical properties reviews natural fibres such as cellulosic cotton and silk fibres and considers various regenerated fibres examines inorganic fibres including glass and carbon as well as specialist fibres such as chemically resistant and optical fibres 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 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 examines the main fibers their structure and characteristics it then focuses on methods of fiber identification ranging from microscopic to dna analysis in includes coverage of specific applications

including how textiles are identified in forensic investigations an up to date practical guide to the properties and characteristics of textile fibres with clear advice on sampling specimen preparation and examination procedures fibres to smart textiles advances in manufacturing technologies and applications offers comprehensive coverage of the fundamentals and advances in the textile and clothing manufacturing sectors it describes the basics of fibres yarns and fabrics and their end use in the latest developments and applications in the field and addresses environmental impacts from textile processes and how to minimize them this book serves as a single comprehensive source discussing textile fibres yarn formation filament formation techniques woven fabric formation knitting technologies nonwoven manufacturing technologies braiding technologies and dyeing printing and finishing processes testing of textile materials environmental impacts of textile processes and use of cad and cam in designing textile products are also included the book also discusses applications including textile composites and biocomposites technical textiles smart textiles and nanotextiles with chapters authored by textile experts this practical book offers guidance to professionals in textile and clothing manufacturing and shows how to avoid potential pitfalls in product development this early work on textile chemistry is both expensive and hard to find in its first edition it contains details on the chemical technology of processes such as dyeing and bleaching this is a fascinating work and is thoroughly recommended for anyone interested in the textile industry many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce we are republishing these classic works in affordable high quality modern editions using the original text and artwork 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 focussing on the fundamentals of natural and manmade fibres this book systematically explains fibre extraction production structure properties and uses recent developments like different aliphatic and aromatic polyamides polyimides novoloids polycarbonates carbon high performance polyethylenes etc have also been explained in a simplified manner diverse applications of fibres have been included to illustrate their use and utility this book will serve as a basic text for both diploma and degree students of all textile disciplines it would also serve as a useful reference for researchers and professionals engaged in this area many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive we are republishing these classic works in affordable high quality modern editions using the original text and artwork 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 volume 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres part two considers regenerated cellulosic protein alginate chitin and chitosan fibres the final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres chapters review how fibre structure contributes to key mechanical properties a companion volume reviews the structure of manufactured polymer 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 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 discusses how fibre structure contributes to key mechanical properties excerpt from the chemical technology of textile fibres their origin structure preparation washing bleaching dyeing printing and dressing and dressing in the present volume dealing with the chemical technology of the textile fibres except as concerns the dye stuffs which will be treated in a separate work the author has been obliged to condense the available matter as much as possible in order to preserve the form of a text book about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public to ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant the textile industry is focused in its search for alternative green fibres with the aim of providing high quality products which are fully recyclable and biodegradable natural textile materials from renewable sources play an increasingly important role in the industry due to their unique properties and functionality over synthetic fibres as well as their sustainability fundamentals of natural fibres and textiles covers all the fundamental and basic information about natural fibres and textiles many different fibres are covered from their origin through processing properties and applications the latest methods for characterisation and testing of natural fibres are all addressed with reference to cutting edge industry trends this uniquely comprehensive approach to the topic provides the ideal entry point to natural fibres for textile and clothing scientists engineers designers researchers students and manufacturers of such products explains the characteristics of natural fibres to show how they compare to synthetic fibres for a range of purposes provides an overview of the environmental impact of the processing of fibres and how this creates industrial waste covers a wide range of natural fibres in detail from traditional silk and wool to electrospun biopolymers provides the latest updates on technologies for designing natural fibres and applying them to the development of new products this historic book may have numerous typos and missing text purchasers can usually download a free scanned copy of the original book without typos from the publisher not indexed not illustrated 1902 edition excerpt iii classification of dye stuffs methods of dyeing 1 since in this chapter we are solely concerned with the application of the dye stuffs in the processes of dyeing and printing the sole principle of classification we can adopt is based on the method of dyeing necessary to bring them on the fibre the different classes of dyes therefore may be set down as follows 1 acid dye stuffs 2 basic or tannin dyes 3 dye salts or substantive cotton dyes 4 mordant dyes 5 vat dyes 6 developing dyes 7 albumin dyes 1 application of acid dye stuffs the acid dyes are mostly sodium salts of sulpho acids and this class comprises the different marks of tropeoline ponceau bordeaux scarlet fast red chromotrope black azo dyes such as naphthol black acid violet acid green several aniline blues patent blue several fast blues or indulines tartrazine quinoline yellow azocarmine indigo carmine etc as well as such dyes as owe their acid character to the presence of nitro and hydroxyl groups the nitro dyes and eosines dyes of this class are more frequently used than any others for dyeing wool and silk but are not well adapted for dyeing cottons application to wool the dyeing is effected in presence of acids or acid salts viz sulphuric acid sodium bisulphate mostly known as tartar preparation glauber salt sodium sulphate alum acetic acid ammonium acetate or ammonium oxalate the object of these acid adjuncts is to neutralise the calcium bicarbonate in the dye water liberate the dye acid and finally to diminish the solubility of this latter in water thus facilitating its absorption by the fibre and helping the bath to draw the stronger the acid the better and more quickly is the dye absorbed by the 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 this book highlights the innovations in textile fibres that is the starting point of the supply chain there are numerous innovations made in terms of making the existing fibres sustainable and also to discover new sustainable fibres this book deals with those innovative sustainable textile fibres in detail it also presents an overview of various current textile fibres their issues associated with sustainability and how new sustainable fibres overcome those issues finally it discusses the challenges and implications of these sustainable fibres on technical and economic fronts this is a reproduction of a book published before 1923 this book may have occasional imperfections such as missing or blurred pages poor pictures errant marks etc that were either part of the original artifact or were introduced by the scanning process we believe this work is culturally important and despite the imperfections have elected to bring it back into print as part of our continuing commitment to the preservation of printed works worldwide we appreciate your understanding of the imperfections in the preservation process and hope you enjoy this valuable book 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 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres part two considers regenerated cellulosic protein alginate chitin and chitosan fibres the final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres chapters review how fibre structure contributes to key mechanical properties a companion volume reviews the structure of manufactured polymer 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 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 covers asbestos wool minor hair fibers silk vegetable fibers cotton cellulose minor seed hairs artificial silks linen jute ramie hemp minor vegetable fibers and paper fibers analysis testing fabrics this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive

and relevant

Handbook of Textile Fibres 1984-01-01

a comprehensive survey of the natural fibres animal vegetable and mineral on which we depended for our textiles until comparatively recently

The Chemistry of Textile Fibres, 2nd Edition 2015-06-17

textiles are ubiquitous materials that many of us take for granted in our everyday lives we rely on our clothes to protect us from the environment and use them to enhance our appearance textiles also find applications in transport healthcare construction and many other industries the revised and updated 2nd edition of the chemistry of textile fibres highlights the trend towards the synthesis from renewable resources of monomers for making synthetic fibres it contains new information on the influence of legislation and the concerns of environmental organisations on the use of chemicals in the textile industry new sections on genetically modified cotton anti microbial materials and spider silk have been added as well as a new chapter covering functional fibres and fabrics this book provides a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to the high performance fibres that are very technologically advanced readers will gain an appreciation of why particular types of fibre are used for certain applications through understanding the chemistry behind their properties students following a level courses or equivalent and first year undergraduate students reading textile technology subjects at university will find this book a valuable source of information

Physical Properties of Textile Fibres 2008-10-10

first published in 1962 and now in its fourth edition physical properties of textile fibres has become a classic providing the standard reference on key aspects of fibre performance the new edition has been substantially reorganised and revised to reflect new research after introductory chapters on fibre structure testing and sampling the book reviews key fibre properties their technical significance factors affecting these properties and measurement issues each chapter covers both natural and synthetic fibres including high performance fibres the book first reviews properties such as fineness length and density it then considers thermal properties and reaction to moisture a further group of chapters then reviews tensile properties thermo mechanical responses fibre breakage and fatigue finally the book discusses dielectric properties electrical resistance and static optical properties and fibre friction written by one of the world s leading authorities the fourth edition of physical properties of textile fibres consolidates its reputation as a standard work both for those working in the textile industry and those teaching and studying textile science a standard reference on key aspects of fibre performance an essential read and reference for textile technologists fibre scientists textile engineers and those in academia provides substantial updated material on fibre structure and new test methods data and theories regarding properties of textile fibres

Handbook of Textile Fibre Structure 2009-10-26

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 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres part two considers regenerated cellulosic protein alginate chitin and chitosan fibres the final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres chapters review how fibre structure contributes to key mechanical properties a companion volume reviews the structure of manufactured polymer 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 discusses how fibre structure contributes to key mechanical properties reviews natural fibres such as cellulosic cotton and silk fibres and considers various regenerated fibres examines inorganic fibres including glass and carbon as well as specialist fibres such as chemically resistant and optical fibres

Introduction to Textile Fibres 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

The Dyeing of Textile Fibres 1949

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 examines the main fibers their structure and characteristics it then focuses on methods of fiber identification ranging from microscopic to dna analysis in includes coverage of specific applications including how textiles are identified in forensic investigations

Handbook of textile fibres 1984

an up to date practical guide to the properties and characteristics of textile fibres with clear advice on sampling specimen preparation and examination procedures

Identification of Textile Fibres 2009-02-11

fibres to smart textiles advances in manufacturing technologies and applications offers comprehensive coverage of the fundamentals and advances in the textile and clothing manufacturing sectors it describes the basics of fibres yarns and fabrics and their end use in the latest developments and applications in the field and addresses environmental impacts from textile processes and how to minimize them this book serves as a single comprehensive source discussing textile fibres yarn formation filament formation techniques woven fabric formation knitting technologies nonwoven manufacturing technologies braiding technologies and dyeing printing and finishing processes testing of textile materials environmental impacts of textile processes and use of cad and cam in designing textile products are also included the book also discusses applications including textile composites and biocomposites technical textiles smart textiles and nanotextiles with chapters authored by textile experts this practical book offers guidance to professionals in textile and clothing manufacturing and shows how to avoid potential pitfalls in product development

Microscopy of Textile Fibres 2020-08-13

this early work on textile chemistry is both expensive and hard to find in its first edition it contains details on the chemical technology of processes such as dyeing and bleaching this is a fascinating work and is thoroughly recommended for anyone interested in the textile industry many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce we are republishing these classic works in affordable high quality modern editions using the original text and artwork

Fibres to Smart Textiles 2019-08-08

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

The Chemistry of Textile Fibres 2015

focussing on the fundamentals of natural and manmade fibres this book systematically explains fibre extraction production structure properties and uses recent developments like different aliphatic and aromatic polyamides polyimides novoloids polycarbonates carbon high performance polyethylenes etc have also been explained in a simplified manner diverse applications of fibres have been included to illustrate their use and utility this book will serve as a basic text for both diploma and degree students of all textile disciplines it would also serve as a useful reference for researchers and professionals engaged in this area

The Dyeing of Textile Fibres 1949

many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive we are republishing these classic works in affordable high quality modern editions using the original text and artwork

The Chemical Technology of Textile Fibres - Their Origin, Structure, Preparation, Washing, Bleaching, Dyeing, Printing and Dressing 2013-01-31

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 volume 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres part two considers regenerated cellulosic protein alginate chitin and chitosan fibres the final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres chapters review how fibre structure contributes to key mechanical properties a companion volume reviews the structure of manufactured polymer 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 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 discusses how fibre structure contributes to key mechanical properties

The Textile Fibres 1913

excerpt from the chemical technology of textile fibres their origin structure preparation washing bleaching dyeing printing and dressing and dressing in the present volume dealing with the chemical technology of the textile fibres except as concerns the dye stuffs which will be treated in a separate work the author has been obliged to condense the available matter as much as possible in order to preserve the form of a text book about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Handbook of Textile Fibres 1984

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Identification of Textile Fibers 2009-01-30

the textile industry is focused in its search for alternative green fibres with the aim of providing high quality products which are fully recyclable and biodegradable natural textile materials from renewable sources play an increasingly important role in the industry due to their unique properties and functionality over synthetic fibres as well as their sustainability fundamentals of natural fibres and textiles covers all the fundamental and basic information about natural fibres and textiles many different fibres are covered from their origin through processing properties and applications the latest methods for characterisation and testing of natural fibres are all addressed with reference to cutting edge industry trends this uniquely comprehensive approach to the topic provides the ideal entry point to natural fibres for textile and clothing scientists engineers designers researchers students and manufacturers of such products explains the characteristics of natural fibres to show how they compare to synthetic fibres for a range of purposes provides an overview of the environmental impact of the processing of fibres and how this creates industrial waste covers a wide range of natural fibres in detail from traditional silk and wool to electrospun biopolymers provides the latest updates on technologies for designing natural fibres and applying them to the development of new products

The Mechanical Properties of Textile Fibres 1956

this historic book may have numerous typos and missing text purchasers can usually download a free scanned copy of the original book without typos from the publisher not indexed not illustrated 1902 edition excerpt iii classification of dye stuffs methods of dyeing 1 since in this chapter we are solely concerned with the application of the dye stuffs in the processes of dyeing and printing the sole principle of classification we can adopt is based on the method of dyeing necessary to bring them on the fibre the different classes of dyes therefore may be set down as follows 1 acid dye stuffs 2 basic or tannin dyes 3 dye salts or substantive cotton dyes 4 mordant dyes 5 vat dyes 6 developing dyes 7 albumin dyes 1 application of acid dye stuffs the acid dyes are mostly sodium salts of sulpho acids and this class comprises the different marks of tropeoline ponceau bordeaux scarlet fast red chromotrope black azo dyes such as naphthol black acid violet acid green several aniline blues patent blue several fast blues or indulines tartrazine quinoline yellow azocarmine indigo carmine etc as well as such dyes as owe their acid character to the presence of nitro and hydroxyl groups the nitro dyes and eosines dyes of this class are more frequently used than any others for dyeing wool and silk but are not well adapted for dyeing cottons application to wool the dyeing is effected in presence of acids or acid salts viz sulphuric acid sodium bisulphate mostly known as tartar preparation glauber salt sodium sulphate alum acetic acid ammonium acetate or ammonium oxalate the object of these acid adjuncts is to neutralise the calcium bicarbonate in the dye water liberate the dye acid and finally to diminish the solubility of this latter in water thus facilitating its absorption by the fibre and helping the bath to draw the stronger the acid the better and more quickly is the dye absorbed by the

A Text Book of Fibre Science and Technology 2000

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

Handbook of textile fibres. 2. man-made fibres 1984

this book highlights the innovations in textile fibres that is the starting point of the supply chain there are numerous innovations made in terms of making the existing fibres sustainable and also to discover new sustainable fibres this book deals with those innovative sustainable textile fibres in detail it also presents an overview of various current textile fibres their issues associated with sustainability and how new sustainable fibres overcome those issues finally it discusses the challenges and implications of these sustainable fibres on technical and economic fronts

Handbook of Textile Fibres 1993

this is a reproduction of a book published before 1923 this book may have occasional imperfections such as missing or blurred pages poor pictures errant marks etc that were either part of the original artifact or were introduced by the scanning process we believe this work is culturally important and despite the imperfections have elected to bring it back into print as part of our continuing commitment to the preservation of printed works worldwide we appreciate your understanding of the imperfections in the preservation process and hope you enjoy this valuable book

The Dyeing of Textile Fibres 2011-04-01

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 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres part two considers regenerated cellulosic protein alginate chitin and chitosan fibres the final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres chapters review how fibre structure contributes to key mechanical properties a companion volume reviews the structure of manufactured polymer 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

Handbook of Textile Fibre Structure 2009-10-26

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

The Chemical Technology of Textile Fibres 2017-11-22

covers asbestos wool minor hair fibers silk vegetable fibers cotton cellulose minor seed hairs artificial silks linen jute ramie hemp minor vegetable fibers and paper fibers analysis testing fabrics

The Chemical Technology of Textile Fibres 2018-10-25

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Fundamentals of Natural Fibres and Textiles 2021-03-20

Dyeing and Chemical Technology of Textile Fibres 1984

The Chemical Technology of Textile Fibres; Their Origin, Structure, Preparation, Washing, Bleaching, Dyeing, Printing and Dressing 2013-09

Handbook of Textile Fibres 1984

Handbook of Tensile Properties of Textile and Technical Fibres 2009-10-19

The Standard Handbook of Textiles 1946

Sustainable Innovations in Textile Fibres 2018-03-08

The Dyeing of Textile Fibers 1992-01-01

Physical properties of textile fibres 1986

The Chemical Technology of Textile Fibres 2014-03

Handbook of Textile Fibre Structure 2009-10-26

Textile Fibres 2000

Friction in Textile Materials 2008-06-02

The Textile Fibers, Their Physical, Microscopical and Chemical Properties 1924

Textile Fibres 1924

TEXTILE FIBRES THEIR PHYSICAL 2016-08-29

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