

fiber science series

SURFACE CHARACTERISTICS OF FIBERS AND TEXTILES

Part I

edited by M. J. SCHICK



Surface Characteristics Of Fibers And Textiles Part 1

Adam B. Hall, Richard Saferstein



Surface Characteristics Of Fibers And Textiles Part 1:

Surface Characteristics of Fibers and Textiles M. J. Schick, 2017-09-19 The extraordinary growth in the production and use of man made fibers over the past few decades has focused attention on the surface properties of fibers and textiles This volume combines surface science and technology in its presentation of the substantial progress that has been made in the technology related to the surface characteristics of natural synthetic and glass fibers and textiles Adopting an interdisciplinary approach the coverage places emphasis upon the wetting soiling staining frictional and adhesive properties of fibers and fabrics as well as phenomena related to these properties The book offers critical reviews which describe experimental facts theories and processes Symbols are clearly defined in each chapter Among the subjects covered are the surface properties of glass fibers soil release stain and water repellance friction of fabrics bonding of nonwovens and the wetting of fibers *Surface Characteristics of Fibers and Textiles Part II* is an outstanding textbook for courses dealing with surface chemistry the mechanical properties of textiles textile technology and polymer chemistry It is also a valuable reference book designed to make current knowledge on these subjects accessible to industrial and academic researchers

Surface Characteristics of Fibers and Textiles Christopher Pastore, Paul Kiekens, 2000-12-06 An exploration of the surface characteristics of fibres and textiles It emphasizes how fibre surface affects permeability stiffness strength dyeing wrinkling and other performance characteristics to optimize production It also illustrates methods for developing wrinkle resistant finishes on fibre surfaces using environmentally friendly techniques

Forensic Science Handbook, Volume I Adam B. Hall, Richard Saferstein, 2020-10-19 Originally published in 1982 by Pearson Prentice Hall the *Forensic Science Handbook* Third Edition has been fully updated and revised to include the latest developments in scientific testing analysis and interpretation of forensic evidence World renowned forensic scientist author and educator Dr Richard Saferstein once again brings together a contributor list that is a veritable Who's Who of the top forensic scientists in the field This Third Edition he is joined by co editor Dr Adam Hall a forensic scientist and Assistant Professor within the Biomedical Forensic Sciences Program at Boston University School of Medicine This two volume series focuses on the legal evidentiary biological and chemical aspects of forensic science practice The topics covered in this new edition of Volume I include a broad range of subjects including Legal aspects of forensic science Analytical instrumentation to include microspectrophotometry infrared Spectroscopy gas chromatography liquid chromatography capillary electrophoresis and mass spectrometry Trace evidence characterization of hairs dust paints and inks Identification of body fluids and human DNA This is an update of a classic reference series and will serve as a must have desk reference for forensic science practitioners It will likewise be a welcome resource for professors teaching advanced forensic science techniques and methodologies at universities world wide particularly at the graduate level

Surface Modification of Textiles Q Wei, 2009-08-26 The surface of textiles offers an important platform for functional modifications in order to meet special requirements for a variety of applications The

surface modification of textiles may be achieved by various techniques ranging from traditional solution treatment to biological approaches This book reviews fundamental issues relating to textile surfaces and their characterisation and explores the exciting opportunities for surface modification of a range of different textiles Introductory chapters review some important surface modification techniques employed for improved functional behaviour of textiles and the various surface characterisation methods available Further chapters examine the different types of surface modification suitable for textiles ranging from the use of plasma treatments and physical vapour deposition to the use of nanoparticles Concluding chapters discuss surface modification strategies for various applications of textiles Surface modification of textiles is a valuable resource for chemists surface scientists textile technologists fibre scientists textile engineers and textile students Reviews fundamental issues relating to textiles surfaces and their characterisation Examines various types of surface modification suitable for textiles including plasma treatments and nanoparticles Discusses surface modification strategies for textile applications such as expansion into technical textile applications

Modern Textile Characterization Methods Mastura Raheel, 2017-09-29 This work details current advances in assessing the characteristics of polymers single fibres and fibrous systems and associated processes based on evolving theories in the physical chemical and mechanical sciences It focuses on recent developments in selected characterization methods such as Fourier transform infrared spectroscopy Fourier transform nuclear magnetic resonance electron diffraction x ray diffraction and electron microscopy applicable to polymers fibres and textiles

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

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

A Study on the Effect of Plasma Modification on the Comfort Properties of Polyester/Cotton Blend Fabric Baye Berhanu Yilma, 2022-11-07 In this dissertation the effect of cold plasma treatment on the comfort properties of P C blend fabric has been studied in a low pressure plasma reactor The plasma treatment was conducted on the

samples of 65% polyester and 35% cotton blend fabric using argon oxygen and air separately as well as mixtures of O₂ HMDSO N₂ HMDSO H₂O HMDSO and HMDSO monomer alone as working gases Special attention was given to oxygen plasma due to its wide application for various textile polymer materials Due to this reason the Taguchi method was used to design analyze and optimize the oxygen plasma process Other plasma parameters including working pressure discharge power duration of treatment and flow rate were also considered The various comfort properties of plasma treated and untreated P C blend fabric have been studied In particular thermal comfort such as water vapor air permeability thermal resistance and wickability as well as tactile comfort including hand feel and electro physical properties were investigated As the results showed that the oxygen plasma treatment had a positive effect on the thermal comfort and resistivity properties of P C the blend fabric

Controlled Release Technologies Agis F. Kydonieus, 2022-07-30 First Published in 1985 this set offers comprehensive insight into the process of administering chemical ingredients Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of pharmacology and other practitioners in their respective fields

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