

Nonwoven Fabrics

Raw Materials, Manufacture, Applications,
Characteristics, Testing Processes

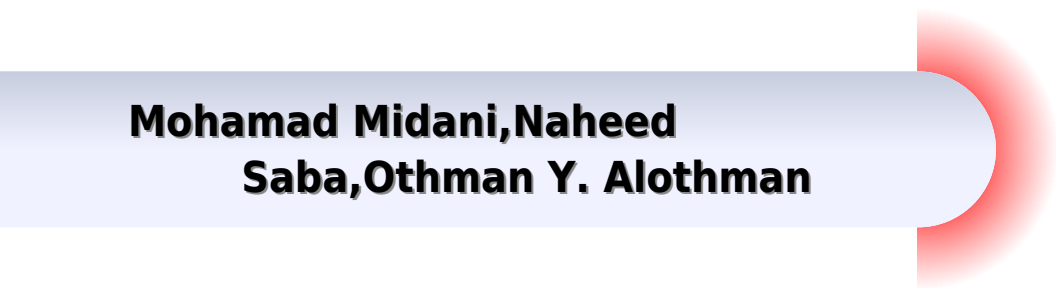
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Nonwoven Fabrics Raw Materials Manufacture Applications Characteristics Testing Processes

**Mohamad Midani,Naheed
Saba,Othman Y. Alothman**



Nonwoven Fabrics Raw Materials Manufacture Applications Characteristics Testing Processes:

Nonwoven Fabrics Wilhelm Albrecht, Hilmar Fuchs, Walter Kittelmann, 2006-03-06 From the utilization of textile waste to the high tech product this is how modern nonwovens can best be described Web formation and web bonding processes have recently been enhanced Nowadays fibres granulates binder and finishing agents are used This development entails a wider range of applications in the fields of hygiene medicine the garment producing and building industries interior design as well as further technical uses This book provides comprehensive information about nonwovens from the raw material fibres via the manufacturing processes to finishing and to the ready made product Nonwoven characteristics and the fields of application are discussed in detail as well as the processes available to test the raw materials the intermediate and the final products This book will be the standard reference on nonwovens in the years to come Applications of Nonwovens in Technical Textiles R Chapman, 2010-06-15 Nonwovens have been one of the fastest growing and most exciting sectors of the textiles market Such fabrics have a broad spectrum of end uses ranging from medical products to interior textiles This book focuses on the variety of technical nonwoven applications available Opening chapters in part one briefly discuss the fundamental principles of nonwoven fabrics topics such as the formation of nonwovens and the influence of fibre and fabric properties on nonwoven performance are covered Part two provides valuable examples of how nonwoven materials can be used in a variety of textile products for apparel filtration and personal hygiene With a collection of international contributors this book is an important reference for professionals involved in the production technology and use of nonwoven materials extending from industries such as the medical textile industry to the apparel sector It will also be suitable for researchers in academia with an interest in nonwoven fabrics Focuses on the variety of technical nonwoven applications available and provides a comprehensive overview of current developments and likely future trends Reviews the formulation of various types of nonwovens and examines the influence of fibre and fabric properties on nonwoven performance Provides a broad overview of nonwoven applications in a variety of different areas from apparel to automotive interiors **Smart Clothes and Wearable Technology** Jane McCann, David Bryson, 2009-02-27 Smart clothes and wearable technology is a relatively novel and emerging area of interdisciplinary research within the fashion textile electronics and related industries This book provides a comprehensive review of the end user s requirements and the technologies and materials available for the design and production of smart clothing Part one looks at the design of smart clothing and wearable technology including the emergence of wearable computing end user requirements and the design process from fibre selection to product launch Part two examines the general requirements for merging of a range of textile structures with technology and communications for wearable technologies Part three reviews the types of production technologies available for the development of smart clothing including garment construction and fabric joining and the final part discusses the application of these new technologies in smart clothing products and their presentation to consumers Smart clothes and wearable technology is a

unique and essential reference source for researchers designers and engineers developing textiles and clothing products in this cross disciplinary area It is also beneficial for those in the healthcare industry and academics researching textiles fashion and design Examines this emerging area of textile research including a brief history and industry overview Assesses the technologies and materials available for the design and production of smart clothing Summarises requirements for smart textiles from both health and performance perspectives **Date Palm Fiber Composites** Mohamad Midani,Naheed

Saba,Othman Y. Alothman,2020-11-11 This book covers the recent research advances on the utilization of date palm fibers as a new source of cellulosic fibers that can be used in the reinforcement of polymer composites It discusses the competitive mechanical physical and chemical properties which make date palm fibers stand out as an alternative to other fibers currently used in the natural fiber composites market This volume will be useful to researchers working on natural fiber composites and fiber reinforced composites looking to develop green biodegradable and sustainable components for

application in automotive marine aerospace construction wind energy and consumer goods sectors *Auxetic Textiles* Hong Hu,Minglonghai Zhang,Yanping Liu,2019-07-11 Auxetic Textiles provides a detailed introduction to the basic properties of auxetic materials and how they differ from conventional materials particularly auxetic textiles such as polymers fibers yarns fabrics and textile composites The book discusses the beneficial properties of auxetic structures in textiles and how to translate those benefits into actual materials development Sections cover the deformation mechanism of textile structures to achieve auxetic behavior and the modelling and simulation of auxetic textile structures Finally the book provides expert insights into potential application areas Cutting across textiles disciplines from technical textiles and advanced composites to fashion and design the book is a valuable introduction to the field for newcomers with potent insights into the potential of these materials Introduces the concept of auxetic materials and their differences from conventional materials Provides a practical guide to the mechanics of achieving auxetic properties in textile materials including polymers fibers yarns fabrics and composites Reviews and links up research and development in auxetic materials with the textile industry helping enable the development of a range of new applications *Engineered Polymeric Fibrous Materials* Masoud Latifi,2021-06-04

Engineered Polymeric Fibrous Materials explains cutting edge techniques for the engineering of fibrous materials from physical mechanical and chemical points of view Both conventional and nanofibers are described in this uniquely comprehensive book for a wide range of applications including biomedical automotive aerospace agriculture energy and environmental This book refers to recent advances made in both academia and industry in topics such as fiber reinforced composites fibrous thermal insulators drug delivery and tissue engineering and smart textiles and energy and explains how fibrous structures are engineered to offer new solutions to important problems The first two chapters provide basic introductory information to allow a wider range of readers to engage with the book Addresses hot emerging topics including smart materials wearable energy harvesters and solar fuel production Includes valuable technical advice that is useful to

industries including aerospace biomedical and energy Covers the full lifecycle of the material from processing and treatment through to end usage **Textile Materials for Lightweight Constructions** Chokri Cherif,2015-08-11 In this book experts on textile technologies convey both general and specific information on various aspects of textile engineering ready made technologies and textile chemistry They describe the entire process chain from fiber materials to various yarn constructions 2D and 3D textile constructions preforms and interface layer design In addition the authors introduce testing methods shaping and simulation techniques for the characterization of and structural mechanics calculations on anisotropic pliable high performance textiles including specific examples from the fields of fiber plastic composites textile concrete and textile membranes Readers will also be familiarized with the potential offered by increasingly employed textile structures for instance in the fields of composite technology construction technology security technology and membrane technology

Textile and Clothing Design Technology Tom Cassidy,Parikshit Goswami,2017-11-15 In the textile industry there is a pressing need for people who can facilitate the translation of creative solutions from designers into manufacturing language and data The design technologist has to understand the elements and principles employed by designers and how these change for various textile media One must also have a good understanding of the processes materials and products for which the textile designer is required to produce creative solutions This book will be for designers wishing to improve their technological knowledge technologists wishing to understand the design process and anyone else who seeks to work at this design technology interface Key Features Provides a comprehensive information about textile production apparel production and the design aspects of both textile and apparel production Fills the traditional gap between design and manufacture changing with advanced technologies Includes brief summary of spinning weaving chemical processing and garmenting Facilitates translation of creative solutions from designers into manufacturing language and data Covers set of workshop activities

Proceedings of the 7th International Conference on Technical Textiles and Nonwovens R. Alagirusamy,Apurba Das,Sohel Rana,Wazed Ali,Bipin Kumar,2025-08-24 This book presents peer reviewed articles from the 7th International Conference on Technical Textiles and Nonwovens ICTN 2023 held from 12th to 14th December 2023 at the Indian Institute of Technology Delhi IIT Delhi in India It brings together leading entrepreneurs researchers academicians experts and students from all over the world to share a common platform to present and share recent research investigations technological advancements and exchange ideas and global views on the future perspectives and development in the field The book covers various topics related to advancements in materials engineering and technology as well as sustainable practices in the area of nonwovens medical textiles sports textiles protective textiles textile composites nano finishing smart textiles and so on

Handbook of Technical Textiles A. Richard Horrocks,Subhash C. Anand,2015-12-01 The second edition of Handbook of Technical Textiles Volume 1 Technical Textile Processes provides readers with a comprehensive understanding of the latest advancements in technical textiles With revised and updated coverage including several new chapters this volume

reviews recent developments and technologies in the field beginning with an overview of the technical textiles industry that includes coverage of technical fibers and yarns weaving spinning knitting and nonwoven production Subsequent sections include discussions on finishing coating and the coloration of technical textiles Provides a comprehensive handbook for all aspects of technical textiles Presents updated detailed coverage of processes fabric structure and applications An ideal resource for those interested in high performance textiles textile processes textile processing and textile applications Contains contributions from many of the original recognized experts from the first edition who update their respective chapters

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