

Functional Textiles For Improved Performance Protection And Health Woodhead Publishing Series In Textiles

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Functional Textiles For Improved Performance

Part I: Functional textiles and clothing for improved performance and protection 1 - Improved textile functionality through surface modifications. Pages 3 - 26 This chapter discusses some important... 2 - Antistatic and conductive textiles. The generation of static charges on the surface of textiles ...

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With its distinguished editors and contributions from some of the world's leading authorities, Functional textiles for improved performance, protection and health is invaluable for textile scientists, technologists and engineers as well as those designing and manufacturing textiles. It is also a suitable reference for the academic sector.

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Part I Functional textiles and clothing for improved performance and protection 1 1 Improved textile functionality through surface modifi cations 3 R. MORENT and N. DE GEYTER, Ghent University, Belgium 1.1 Introduction 3 1.2 Types of surface modification 4 1.3 Physical and chemical characterization of surface modifications 8

Functional Textiles for Improved Performance, Protection ...

Functional Textiles for Improved Performance, Protection and Health Table of Contents. The textile industry is increasingly based on ongoing innovation and development of higher... Key Features. Readership. Textile scientists, technologists and engineers as well as those designing and manufacturing ...

Functional Textiles for Improved Performance, Protection ...

Functional Textiles for Improved Performance, Protection and Health Details The textile industry is increasingly based on ongoing innovation and development of higher performance products, and the field of functional textiles is no exception.

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Functional Textiles for Improved Performance, Protection ...

We also see improved performance in outdoor textiles, not least in response to the rise in extreme climatic conditions. In collaboration with the Karlsruhe Institute of Technology, the textile weaving and spinning experts Ettlin recently developed a patented weave for sun shades, sails and marquees, which is both breathable and water-resistant.

Improved performance and functionality

The functional fibers are woven to obtain functional textiles. The other is to modify ordinary textiles with functional group. The physical finishing process includes three methods: impregnation, padding, and coating, and its main drawback is that the bonding force is weak between the finishing agent and textiles.

Functional Textile - an overview | ScienceDirect Topics

The textile industry is increasingly based on ongoing innovation and development of higher performance products. This book explores the opportunities available to produce textiles with different functions that improve the performance, protection and medical aspects of the product.

Functional textiles for improved performance, protection ...

Functional textiles are one of the most important fields in textile industry and textile materials science. They include breathable, heat and cold-resistant materials, ultra-strong fabrics (e.g ...

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Materials | Special Issue : Multifunctional Textile Materials

Advances in Functional and Protective Textiles explores the latest research in the use of textile materials for protective clothing. The book's international roster of researchers in industry and academia describe innovative applications in defense, medical, sports, fire protection, radiation protection, and more.

Advances in Functional and Protective Textiles | ScienceDirect

- Responsible to manufacture innovative textile products with improved performance, aesthetics & comfort properties by coordinating with research team, suppliers & textile institutions
- Innovative ideas for entirely new fabrics by developing fancy, texture and functional yarn

Muhammad Anees - Deputy General Manager - Research ...

Highly conductive and machine washable graphene-based wearable e-textiles are produced using a highly scalable pad-dry-cure method with subsequent roller compression and a fine encapsulation of graph...

Highly Conductive, Scalable, and Machine Washable Graphene ...

The results also showed that the film with 0.4 wt% MWCNT loading had a high 62.4 dB EMSE in the 1800 MHz frequency and 1.81×10^4 S/cm electrical conductivity. This combination improved stretchability, with 10% elongation at a 29% resistivity change rate.

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