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Functional textiles improve well being | textile network

textiles and improved performance of functional textiles by upgrading existing finishes of products. Textile applications of nanotechnology have primarily focused on generating nanostructures and/or using nanosized chemicals. An example of a nanostructure is a

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Perspectives: Functional textiles. Improved performance and functionality. Acoustically effective, naturally fire-retardant or even self-supporting: textiles for interiors and exteriors impress with improved functionalities. Share

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Textile - Textile - Finishes improving performance: The performance of fabrics in use has been greatly improved by the development of processes to control shrinkage, new resin finishes, and new heat-sensitive synthetic fibres. Shrinkage control processes are applied by compressive shrinkage, resin treatment, or heat-setting. Compressive, or relaxation, shrinkage is applied to cotton and to ...

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Functional Textiles for Improved Performance, Protection ...

The textile industry is increasingly based on ongoing innovation and development of higher performance products, and the field of functional textiles is no exception. This book explores the development of ... - Selection from Functional Textiles for Improved Performance, Protection and Health [Book]

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R. Hibbert, in Textile-Led Design for the Active Ageing Population, 2015. 19.6.4 FIR - far infrared textiles. Far infrared textiles are part of this new category of functional textiles that have putative health and well-being functionality, with the aim of enhancing blood circulation in targeted regions of the body. The function is based on the principle of absorbing energy from the sun and ...

Functional Textiles For Improved Performance

Part one focuses on functional textiles for improved performance and protection, with chapters reviewing antistatic, flame retardant and infrared functional textiles, among many others. Chapters in part two examine the uses of functional textiles in a medical context, including superhydrophobic materials, antibacterial textiles and insect-repellent materials.

Functional Textiles for Improved Performance, Protection ...

The textile industry is increasingly based on ongoing innovation and development of higher performance products, and the field of functional textiles is no exception. This book explores the development of textiles with a wide range of functions, with the aim of improving the performance of the product in terms of the protection and health benefits that it can offer.

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Part one focuses on functional textiles for improved performance and protection, with chapters reviewing antistatic, flame retardant and infrared functional textiles, among many others. Chapters in part two examine the uses of functional textiles in a medical context, including superhydrophobic materials, antibacterial textiles and insect-repellent materials.

Functional Textile - an overview | ScienceDirect Topics

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Protective Textiles, Medical Textiles, Clean Room Textiles, Nanotechnology Applications are application of Functional Textiles. Chemical Protective Clothing, Wrinkle Resistance, Anti ... It has been proved beyond doubts that permanent effect with improved performance properties even after repeated laundering are possible in case of ...

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Part I: Functional textiles and clothing for improved performance and protection --1. Improved textile functionality through surface modifications / R. Morent and N. De Geyter --2. Antistatic and conductive textiles / X. Zhang --3. Ultraviolet protection of clothing / T. Gambichler --4. 3D body imaging and fit for functional textiles / B. Xu --5.

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Part I Functional textiles and clothing for improved performance and protection 1 1 Improved textile functionality through surface modifications 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 1.4 Applications ...

Functional textiles for improved performance, protection ...

5 Flame retardant functional textiles S. Gaan, V. Salimova, P. Rupper, A. Ritter and H. Schmid, Swiss Federal Laboratories for Materials Testing and Research (EMPA), Switzerland Abstract: This chapter is ... - Selection from Functional Textiles for Improved Performance, Protection and Health [Book]

Functional Textiles for Improved Performance, Protection ...

The brand Peak Performance (ski wear) of IC Group A/S, Adidas offers such thermal insulation technology functional textiles. Energear technology of Schoeller Technologies AG receives the energy exerted by the body through far infrared rays, is also a type functional textile.

Improved performance and functionality

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Textile - Finishes improving performance | Britannica

Functional textiles improve well being a study by the VDI pegs the drop in performance at 20 percent to 30 percent when workers are exposed to these factors. ... settings and mega cities by 2050. This places new demands on construction, transportation concepts, health facilities, functional clothing and, of course, home textiles.

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