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Nota di contenuto	Smart Textiles; Committees; Preface; Table of Contents; CHAPTER 1: ADAPTIVE / ACTIVE TEXTILES; The Investigation about the Shape Memory Behavior of Wool; Properties and Applications of Dry-Spun Carbon Nanotube Yarns; Photochromic Wool Fabrics with Enhanced Durability and Photochromic Performance; Designing with a Responsive Colour Palette: The Development of Colour and Pattern Changing Products; Investigating SMART Membranes and Coatings by In Situ Synthesis of Iron Oxide Nanoparticles in PVA Hydrogels; Lotus-Effect®: Biomimetic Super-Hydrophobic Surfaces and their Application Gold Coated Polyester YarnPVDF Nanoweb Touch Sensors Prepared Using Electro-Spinning Process for Smart Apparels Applications; Electrically Conductive Monofilaments for Smart Textiles; CHAPTER 2: E-TEXTILES; Printed Textile Antennas for Off-Body Communication; STELLA - STretchable ELelectronics for Large Area Applications - A New Technology for Smart Textiles ; Development of Electrically Active Textiles; Embroidered Interconnections and Encapsulation for Electronics in Textiles for Wearable Electronics Applications Accomplishing of Convergent Systems for Mobile Personalized Information MonitoringCHAPTER 3: FUNCTIONALITY AND APPLICATIONS; Smart Sensing Uniforms for Emergency Operators;

Photo-Catalysis of Red Wine Stains Using Titanium Dioxide Sol-Gel Coatings on Wool Fabrics; Optimization of Electrospray Process by PIV in Nanostructured Membrane Preparation; Haptic Sensing in Intelligent Textile Development; Carbon-Based Textiles as Gas Diffusion Layers (GDL) for Polymer Fuel Cells; Smart Textile Embedding Optical Fibre Sensors for Healthcare Monitoring during MRI
Smart Textiles: Position and Motion Sensing for Sport, Entertainment and Rehabilitation
Design for Ageing Well: Improving the Quality of Life for the Ageing Population Using a Technology Enabled Garment System; Monitoring and Control System of Discomfort in Disability, Bed Rest People and Surgical Patients; Functional Properties of Electroless Silver-Plated Cotton Fabric via LTP Pre-Treatment; Keywords Index; Authors Index

Sommario/riassunto

This timely collection comprises 24 peer-reviewed papers which, between them, present a comprehensive survey of "Smart Textiles". The papers are grouped into the handy chapters: 1: Adaptive / active textiles; 2: E-textiles; 3: Functionality and applications. This special volume has also been published online in the series, "Advances in Science and Technology" Vol. 60.
