Record Nr. UNINA9910818719503321 Intelligent textiles for personal protection and safety / / edited by **Titolo** Sundaresan Jayaraman, Paul Kiekens and Ana Marija Grancaric Pubbl/distr/stampa Amsterdam: Washington, D.C., : IOS Press, c2006 **ISBN** 6610505284 1-280-50528-1 9786610505289 1-4237-9747-7 1-60750-166-X 600-00-0464-8 1-60129-145-0 Edizione [1st ed.] 1 online resource (160 p.) Descrizione fisica Collana NATO security through science series. D, Information and communication security;; vol. 3 Altri autori (Persone) JayaramanSundaresan KiekensPaul <1955-> GrancaricAna Marija Disciplina 677.68 Protective clothing Soggetti Smart materials Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Proceedings from the NATO Advanced Research Workshop on Note generali Intelligent Textiles for Personal Protection and Safety, Zadar, Croatia, 7-10 September 2005. "Published in cooperation with NATO Public Diplomacy Division." "This publication is supported by: The NATO Programme for Security through Science"--Cover. Nota di bibliografia Includes bibliographical references and author index. Nota di contenuto Title page: Preface: Content: Advanced Research Workshop on Intelligent Textiles for Personal Protection and Safety: Intelligent Textiles for Personal Protection and Safety: The Emerging Discipline; The Wearable Motherboard: The New Class of Adaptive and Responsive Textile Structures; New Textile Materials for Environmental Protection; Wearable Mechanosensing and Emerging Technologies in Fabric-Based Actuation; Flexible Displays on Textiles for Personal Protection; Conductivity Based Sensors for Protection and Healthcare; Optical

Sommario/riassunto

Chemical Sensors and Personal Protection
Ergonomics of Protective Clothing Heat Strain and Fit; Author Index

Technology is the key to combating terrorism and protecting ordinary citizens, first responders and soldiers, among others, from danger. The area of intelligent textiles has a high potential for payoff in the fight against terrorism. Each chapter in the book provides an in-depth assessment of one particular facet of this emerging discipline - from analysis of the threats and sensing technologies to ergonomics of protecting clothing - presented by leading international experts.