



## Smart Textiles and Their Applications (Woodhead Publishing Series in Textiles)

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*Smart Textiles and Their Applications* outlines the fundamental principles of applied smart textiles, also reporting on recent trends and research developments. Scientific issues and proposed solutions are presented in a rigorous and constructive way that fully presents the various results, prototypes, and case-studies obtained from academic and industrial laboratories worldwide.

After an introduction to smart textiles and their applications from the editor, Part One reviews smart textiles for medical purposes, including their use in health monitoring, treatment delivery, and assistive technologies. Part Two covers smart textiles for transportation and energy, with chapters covering smart textiles for the monitoring of structures and processes, as well as smart textiles for energy generation.

The final section considers smart textiles for protection, security, and communication, and includes chapters covering electrochromic textile displays, textile antennas, and smart materials for personal protective equipment.

- Scientific issues and proposed solutions are presented in a rigorous and constructive way regarding various results, prototypes, and case-studies obtained from academic and industrial laboratories worldwide
- Useful for researchers and postgraduate students, and also for existing companies and start-ups that are developing products involving smart textiles
- Authored and edited by an international team who are experts in the field ensure comprehensive coverage and global relevance

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## Smart Textiles and Their Applications (Woodhead Publishing Series in Textiles) From Ingramcontent Bibliography

- Rank: #1407263 in Books
- Brand: Ingramcontent
- Published on: 2016-05-24
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x 1.56" w x 5.98" l, 3.97 pounds
- Binding: Hardcover
- 746 pages



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### **Editorial Review**

#### **Review**

"Scientific issues and proposed solutions are presented in a rigorous and constructive way regarding various results, prototypes and case studies obtained from academic and industrial laboratories worldwide." --**Asian Textile Journal**

#### **About the Author**

Professor Vladan Koncar is head of research at ENSAIT and director of the GEMTEX research laboratory. He has authored more than 200 scientific articles, including journal papers, book chapters and conference proceedings.

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