



# **Electronic Textiles: Smart Fabrics and Wearable Technology (Woodhead Publishing Series in Textiles)**

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## Electronic Textiles: Smart Fabrics and Wearable Technology (Woodhead Publishing Series in Textiles)

The integration of electronics into textiles and clothing has opened up an array of functions beyond those of conventional textiles. These novel materials are beginning to find applications in commercial products, in fields such as communication, healthcare, protection and wearable technology. *Electronic Textiles: Smart Fabrics and Wearable Technology* opens with an initiation to the area from the editor, Tilak Dias. Part One introduces conductive fibres, carbon nano-tubes and polymer yarns. Part Two discusses techniques for integrating textiles and electronics, including the design of textile-based sensors and actuators, and energy harvesting methods. Finally, Part Three covers a range of electronic textile applications, from wearable electronics to technical textiles featuring expert chapters on embroidered antennas for communication systems and wearable sensors for athletes.

- Comprehensive overview of conductive fibres, yarns and fabrics for electronic textiles
- Expert analysis of textile-based sensors design, integration of micro-electronics with yarns and photovoltaic energy harvesting for intelligent textiles
- Detailed coverage of applications in electronic textiles, including wearable sensors for athletes, embroidered antennas for communication and electronic textiles for military personnel

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