



# Woven Textiles: Principles, Technologies and Applications (Woodhead Publishing Series in Textiles)

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## **Woven Textiles: Principles, Technologies and Applications (Woodhead Publishing Series in Textiles)**

Traditionally used in apparel and interior fabrics, woven textiles are increasingly being employed in a variety of technical applications. Woven textiles: Principles, developments and applications provides an essential overview of the manufacture, structure and application of these important textiles.

Beginning with an introduction to the fibres and yarns used in weaving, part one goes on to explore key preparatory techniques and the fundamentals of weaving technology. The characteristics of woven structures are then discussed in greater depth in part two, alongside investigation into the use of computer assisted design (CAD) systems, techniques for modelling the structure of woven fabrics, and methods for the manufacture of 3D woven structures. Part three focuses of the application of woven textiles to a wide range of technologies. The use of woven textiles in automotive interiors and other transport applications is discussed, along with woven apparel fabrics, geotextiles, hollow woven fabrics and woven textiles for medical applications.

With its distinguished editor and international team of expert contributors, Woven textiles: Principles, developments and applications is an indispensable guide for all designers, engineers and technicians involved in the design, manufacture and use of woven textiles. It also provides a useful overview of woven textile processing and applications for academics and students.

- Provides an essential overview of the manufacture, structure and application of woven textiles
- Explores key preparatory techniques and the fundamentals of weaving technology and discusses the characteristics of woven structures
- Covers the use of computer-assisted design (CAD) systems and methods for the manufacture of 3D woven structures, among other topics

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