
Description:
Understanding and predicting the structure and properties of woven textiles is important for achieving specific performance characteristics in various woven applications. Woven textiles are used in a range of products such as apparel, technical and industrial textiles. Woven textile structure: Theory and applications provides comprehensive coverage of the structure, behaviour, modeling and design of woven fabrics and their relevance to the textile industry.

The first group of chapters review the fundamental principles of woven fabric structures. Part two discusses the mechanics of woven fabrics, topics include shrinkage in woven fabrics, yarn behaviour in woven fabrics and bending behaviour of woven fabrics. Part three presents a selection of chapters on design engineering of woven fabrics, themes such as textile product design methods and modelling for woven fabric design are covered. A final group of chapters is dedicated to addressing practical applications of woven fabrics.

Woven textile structure: Theory and applications is essential reading for designers, engineers and technicians involved in the design, manufacture and use of woven textiles and garments. It will also be beneficial to academics and students.

- Provides comprehensive coverage of the fundamentals of woven fabric structure including geometrical modeling
- Examines mechanisms of woven fabric structure featuring shrinkage, buckling, bending and creasing behaviour of textiles
- Illustrates mathematical modeling and building predictive models for textile product design incorporating validation and testing

Contents:
Geometrical modeling of woven fabric structure
Using a geometric model to predict woven fabric properties
Woven fabric properties after structural modifications. Part 2 Mechanics of woven fabric structure:
Shrinkage in woven fabrics
Yarn behaviour in woven fabrics
Tensile behaviour of woven fabrics
Buckling behaviour of woven fabrics
Bending behaviour of woven fabrics
Creasing in woven fabrics
Shear behaviour of woven fabrics
Compression behaviour of woven fabrics
Friction and other aspects of the surface behaviour of woven fabrics. Part 3 Design engineering of woven fabrics: Textile product design methods
Modeling for textile product design: Building predictive models for textile product design
Modeling for woven fabric design. Part 4 Practical applications: Assessing the comfort of woven fabrics:
fabric hand
Assessing the comfort of woven fabrics: thermal properties
Modeling woven fabric draping
Modeling woven fabric behaviour during the making-up of garments
Modeling three-dimensional (3D) woven fabric structures
Application of woven fabrics.

Ordering:
Order Online - http://www.researchandmarkets.com/reports/2720046/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

- **Product Name:** Woven Textile Structure. Woodhead Publishing Series in Textiles
- **Web Address:** [http://www.researchandmarkets.com/reports/2720046/](http://www.researchandmarkets.com/reports/2720046/)
- **Office Code:** SCDK55K6

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Hard Copy (Hard Back)</th>
<th>USD 251 + USD 29 Shipping/Handling</th>
</tr>
</thead>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

- **Title:** [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
- **First Name:** ____________________________
- **Last Name:** ____________________________
- **Email Address:** * ______________________
- **Job Title:** ____________________________
- **Organisation:** ____________________________
- **Address:** ____________________________
- **City:** ____________________________
- **Postal / Zip Code:** ____________________________
- **Country:** ____________________________
- **Phone Number:** ____________________________
- **Fax Number:** ____________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World