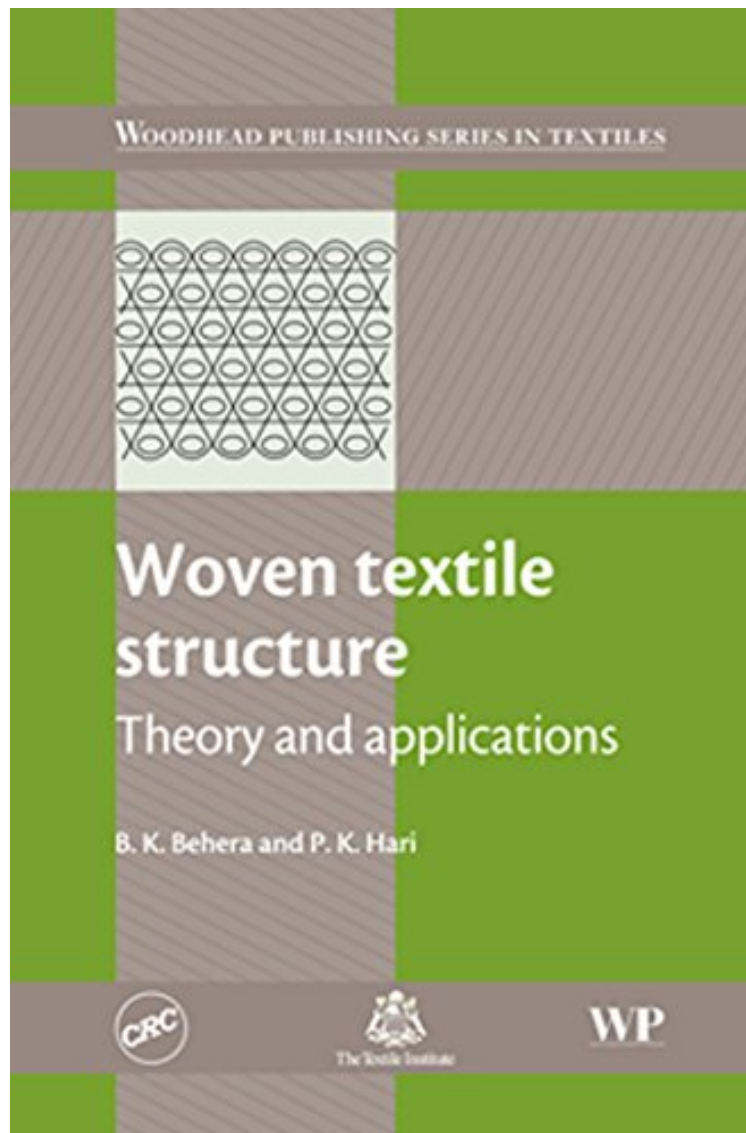


[Free download] Woven Textile Structure: Theory and Applications (Woodhead Publishing Series in Textiles)

Woven Textile Structure: Theory and Applications (Woodhead Publishing Series in Textiles)

B K Behera, P K Hari

**Download PDF | ePub | DOC | audiobook | ebooks*



[Download](#)

[Read Online](#)

2010-03-01 2010-03-01 File Name: B00HMQCY8G | File size: 31.Mb

B K Behera, P K Hari : Woven Textile Structure: Theory and Applications (Woodhead Publishing Series in Textiles) before purchasing it in order to gage whether or not it would be worth my time, and all praised Woven Textile Structure: Theory and Applications (Woodhead Publishing Series in Textiles):

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.

About the Author Dr B. K. Behera is a professor in the Department of Textile Technology at the Indian Institute of Technology, Delhi. His research interests include the mechanics of textile structure and textile modeling. He has published over 100 research papers, presented numerous conference papers and has four patents. Dr P. K. Hari is a textile consultant and Emeritus Professor at the Technological Institute of Textile Sciences, Bhiwani, Haryana. He was previously Head of the Textile Department at the Indian Institute of Technology, Delhi. He has published over 60 papers in international textile journals and has contributed to many International conferences.