



Principles of Fabric Formation

By Prabir Kumar Banerjee

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How Are Textile Fabrics Formed?

Principles of Fabric Formation is a treatise on the modern production systems of woven, knitted, braided, nonwoven, triaxial, multiaxial, and 3D fabrics. This book offers a basic understanding of the technicalities involved in the formation of different types of textile fabrics, and brings out the relative merits and limitations of each production process in one single volume.

Gain Insight into the World of Textile Fabrics

Providing readers with an appreciation of the technicalities involved in the formation of different types of textile fabrics, the author describes all major fabric formation methods, and explains each stage of formation in the text. He also addresses all major topics related to the formation of different classes of textile fabrics, including yarn winding, warping, yarn sizing, woven fabric construction, weaving, weft knitting, warp knitting, braiding, nonwovens, and triaxial, multiaxial and 3D fabrics.

Comprised of 16 chapters, this multifaceted work:

- Provides a technical description of fabric formation systems
- Focuses on the diverse technicalities involved in each and every stage of formation
- Contains a comprehensive compilation of the major principles involved

Principles of Fabric Formation is an exclusive junior/senior undergraduate-level textbook with a focus on the diverse technical principles involved in production of the entire gamut of textile fabrics.

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Principles of Fabric Formation By Prabir Kumar Banerjee Bibliography

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Editorial Review

Review

"Most books in fabric formation technology are restricted to one type of technology and lack comparison on the properties and suitability for particular applications of the various technologies available. The current book overcomes this limitation. In my opinion this is the most correct way to teach the subject and the one we have always adopted at the University of Minho. In this way students and professionals may be trained to choose the most appropriate fabric for particular end-uses without any bias."

?Mario de Araujo, University of Minho, Braga, Portugal

"The book covers virtually the entire subject of textile fabric manufacturing, and represents one of the most comprehensive books on fabric manufacturing. It should prove to be a very useful and important textbook and reference manual for under graduate students and industry alike."

?Lawrance Hunter, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa

"A well-designed and quite innovative book that includes many important points related to fabric formation techniques. It will be a very helpful book for students, researchers, and engineers."

?Kadir Bilisik, Erciyes University, Kayseri, Turkey

About the Author

Prabir Kumar Banerjee obtained his bachelor's degree in textile technology from the College of Textile Technology, Serampore, West Bengal in 1966; master's degree in textile engineering from IIT Delhi in 1973; and doctorate from the erstwhile TH, Karl-Marx-Stadt of GDR in 1979. He has guided nine PhD students, published 36 papers in refereed journals, developed eight new products and processes, and holds three patents. He is a recipient of the lifetime contribution award from the International Geosynthetics Society (Delhi Chapter) and the Central Board of Irrigation and Power of India for contribution to the growth of geosynthetics in India.

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