



Principles of Woven Fabric Manufacturing

By Abhijit Majumdar

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Weaving as a subject is an integral part of any textile engineering/technology program, the others being fibre manufacturing, yarn manufacturing and textile chemical processing. This book amalgamates both the compartments (preparatory processes and the loom mechanism) of weaving technology and presents a holistic picture. The machine descriptions are presented from the viewpoint of principles and no attempt has been made to make them exhaustive by incorporating various models or variants. The mathematical relations among various parameters have been derived starting from the first principles and each chapter concludes with solved numerical examples.

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Review

"The main strengths of the textbook are a clear, logical, modern and understandable explanation of the subject matter in the field of weaving technology. Graphics, photos and practical examples effectively supporting the consolidation and understanding of the content presented. A perfect textbook for students and weaving experts."

? Polona Dobnik Dubrovski, *The University of Maribor, Slovenia*

"This book is relevant and useful both to undergraduates and undergraduates who are pursuing a career in apparel and textiles."

? John Mccloughlin, *Manchester Metropolitan University, United Kingdom*

"The book titled ***Principles of Woven Fabric Manufacturing*** is one of the comprehensive concept books on two dimensional (2D) weaving and weaving related subjects. My overall view on the book is that each sub content is explained very simple way for the reader to understand. In addition, it includes recent innovations especially data management, up to date process automation and basic calculation principles. I recommend the book students, engineers, researchers and teachers in various colleges and Universities as well as private companies and state and private research organizations."

? Kadir Bilisik, *Erciyes University, Turkey*

"The book provides technical treatise on weaving including preparatory weaving processes and elementary fabric design. The content of the book is written in simple and easy to understand language. Numerical exercises are included; which will benefit students and early career practitioners."

? Rajesh Anandjiwala, *CSIR Materials Science & Manufacturing, Port Elizabeth, South Africa*

About the Author

Dr. Abhijit Majumdar is currently an associate professor in textile engineering group at IIT, Delhi. He graduated from Calcutta University with first class first position in textile technology program. Subsequently, he acquired M.Tech degree in Textile Engineering from IIT Delhi and Ph.D in Production Management from Jadavpur University, Kolkata. He has worked in industries like Voltas Limited and Vardhman Group. He has published 45 research papers in international refereed journals. His research areas include protective textiles, soft computing applications, operations and production management. He is the associate editor of Journal of the Institution of Engineers (India) Series E (Chemical and Textile Engineering). He is in the panel of international editorial board of Romanian Textile and Leather Journal, Open Textile Journal (Bentham Open) and Journal of Textiles. He is life member of professional bodies like International Society of Multi-Criteria Decision Making, Global Institute of Flexible Management Systems, Association for Machines and Mechanisms, Indian Society of Technical Education, The Textile Association (India) and Institution of Engineers (India).

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