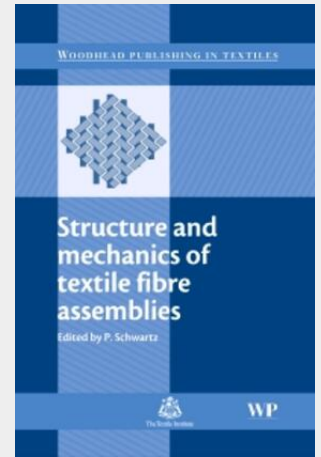


Schwartz

Structure and Mechanics of Textile Fibre Assemblies

Textile structure and mechanics are fundamental to the way textiles are designed, manufactured, tested and used. Structure and mechanics of textile fibre assemblies discusses aspects of fabric structure and mechanical properties such as tensile, bending and shear properties for a range of fabrics. After a general introduction illustrating the role of fabric structure and mechanics, subsequent chapters discuss the structural, tensile, bending and shear properties of woven, knitted and nonwoven fabrics. Other chapters review the structure and mechanics of yarns, coated fabrics, 2D and 3D textile composites. Testing methods for the measurement of fabric mechanical properties and structure parameters are also explored. With its renowned editor and contributions from some of the world's leading authorities, Structure and mechanics of textile fibre assemblies is an important reference for textile scientists, technologists, engineers and those designing and manufacturing textiles. It will also be suitable for those within the academic sector.



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