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Globalisation of technical textiles; 1.7 Future of the technical textiles industry; References; Chapter 2. Technical fibres; 2.1 Introduction; 2.2 Conventional fibres; 2.3 High strength and high modulus organic fibres 2.4 High chemical- and combustion-resistant organic fibres2.5 High performance inorganic fibres; 2.6 Ultra-fine and novelty fibres; 2.7 Civil and agricultural engineering; 2.8 Automotive and aeronautics; 2.9 Medical and hygiene applications; 2.10 Protection and defence; 2.11 Miscellaneous; 2.12 Conclusions; References; Chapter 3. Technical yarns; 3.1 Introduction; 3.2 Staple fibre yarns; 3.3 Filament yarns; Bibliography; Chapter 4. Technical fabric structures - 1.Woven fabrics; 4.1 Introduction; 4.2 Weave structures; 4.3 Selvedge; 4.4 Fabric specifications and fabric geometry
4.5 Weaving - machines (looms) and operations4.6 The future; References; Chapte 5. Technical fabric structures - 2. Knitted fabrics; 5.1 Terms and definitions; 5.2 Weft knitting machines; 5.3 Weft-knitted structures; 5.4 Process control in weft knitting; 5.5 End-use applications of weft-knitted fabrics; 5.6 Warp-knitting machines; 5.7 Warp-knitted structures; References; Chapter 6. Technical fabric structures - 3. Nonwoven fabrics; 6.1 Introduction; 6.2 Methods of batt production using carding machines; 6.3 Air laying; 6.4 Wet laying; 6.5 Dry laying wood pulp; 6.6 Spun laying
6.7 Flash spinning6.8 Melt blown; 6.9 Chemical bonding; 6.10 Thermal bonding; 6.11 Solvent bonding; 6.12 Needlefelting; 6.13 Stitch bonding; 6.14 Hydroentanglement; Bibliography; Chapter 7. Finishing of technical textiles; 7.1 Introduction; 7.2 Finishing processes; 7.3 Mechanical finishes; 7.4 Heat setting; 7.5 Chemical processes; References; Chapter 8. Coating of technical textiles; 8.1 Introduction; 8.2 Chemistry of coated textiles; 8.3 Coating techniques; 8.4 Fusible interlinings; 8.5 Laminating; References; Chapter 9. Coloration of technical textiles; 9.1 Introduction
9.2 Objectives of coloration9.3 Coloration of technical textiles; 9.4 Dye classes and pigments; 9.5 Mass coloration of manufactured fibres; 9.6 Conventional dyeing and printing of technical textiles; 9.7 Total colour management systems; 9.8 Dyeing machinery; 9.9 Printing; 9.10 Colour fastness of technical textiles; References; Chapter 10. Heat and flame protection; 10.1 Introduction; 10.2 What constitutes flammability?; 10.3 Thermal behaviour of fibres; 10.4 Selection of fibres suitable for thermal and flame protection; 10.5 Fire-retardant finishes; 10.6 Flame-retardant test methods
10.7 Summary

Sommario/riassunto

This major handbook provides comprehensive coverage of the manufacture, processing and applications of high tech textiles for a huge range of applications including: heat and flame protection; waterproof and breathable fabrics; textiles in filtration; geotextiles; medical textiles; textiles in transport engineering and textiles for extreme environments.Handbook of technical textiles is an essential guide for textile yarn and fibre manufacturers; producers of woven, knitted and non-woven fabrics; textile finishers; designers and specifiers of textiles for new or novel applications as we