

Next-Gen Textiles

Innovation, Technology, and Applications

Next-Gen Textiles: Innovation, Technology, and Applications presents an integrated, forward-looking perspective on the convergence of sustainable innovation, advanced materials science, and digital transformation within the textile industry. With a strong technical orientation, the book covers the entire value chain—from polymer development to consumer experience—highlighting the pivotal role of next-generation technologies in redefining textile engineering, manufacturing, and application paradigms. • Emphasizes how next-generation innovations are integrated at every stage of textile development. • Spans polymer and fiber innovation, advanced fabric technologies, smart manufacturing, AI integration, digital transformation, testing, and end-use applications across fashion and industry. • Connects theoretical concepts to real-world applications through case studies on next-gen biomaterials offering sustainable alternatives to conventional textiles. • Explores AI and digital twins applications. • Examines advanced surface engineering techniques—including functional digital printing, and nanocoatings—designed for performance optimization and aesthetic versatility. Appealing to those who want deep insight into cutting-edge tools and applications, this book offers a rich resource for researchers, engineers, designers, and industry professionals seeking to pioneer the next generation of textile systems—intelligent, sustainable, and engineered for impact.



334,50 €

334,50 € (zzgl. MwSt.)

*vorbestellbar, Erscheinungstermin ca.
November 2026*

Artikelnummer: 9781041159629

Medium: Buch

ISBN: 978-1-041-15962-9

Verlag: Taylor & Francis Ltd

Erscheinungstermin: 09.11.2026

Sprache(n): Englisch

Auflage: 1. Auflage 2026

Serie: Textile Institute Professional
Publications

Produktform: Gebunden

Seiten: 354

Format (B x H): 156 x 234 mm

