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Titolo	Roadmap to Sustainable Textiles and Clothing : Eco-friendly Raw Materials, Technologies, and Processing Methods // edited by Subramanian Senthilkannan Muthu
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ISBN	981-287-065-2
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Descrizione fisica	1 online resource (360 p.)
Collana	Textile Science and Clothing Technology, , 2197-9863
Disciplina	677.00286
Soggetti	Textile industry Sustainable development Engineering economics Engineering economy Environmental management Industrial engineering Production engineering Materials science Textile Engineering Sustainable Development Engineering Economics, Organization, Logistics, Marketing Environmental Management Industrial and Production Engineering Characterization and Evaluation of Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Natural plant fibers: production, processing, properties and their sustainability parameters -- Natural Dyes: Sources, Chemistry, Application and Sustainability Issues -- Sustainable dyeing with synthetic dyes -- Biosynthetic fibres: production, processing, properties and their sustainability parameters -- Developments of Textiles and Apparels using Recycled and Reclaimed Fibres -- Environment Friendly Textile Processing using Plasma and UV Treatment -- Sustainable Textile Wet Processing- Applications of

Enzymes -- Regenerated Cellulosic Fibers and Their Implications on Sustainability -- Application of bio-technology in the processing of textile fabrics -- Jute-Based Sustainable Agro textiles, their Properties and Case Studies.

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## Sommario/riassunto

This book covers the elements involved in achieving sustainability in the textiles and clothing sector. The chapters covered in different volumes of this series title aim to cover all the distinctive areas earmarked for achieving sustainable development in the textile and clothing industry. This first volume is dedicated to the initial phases of life cycle, i.e. raw materials and manufacturing phases of textile products. This book aims to cover the sustainable raw materials, technologies and processing methods to achieve sustainable textile products. There are plenty of raw materials available today to cater the needs of sustainable textiles and apparels including organic materials, recycled and biodegradable raw materials for textile applications. Similarly, many innovative methods to process textile materials to achieve sustainability in the supply chain along with various processing technologies to manufacture textile products sustainably. This first volume covers the titles of these areas in a comprehensive way.

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