

A Novel Green Treatment for Textiles: Plasma Treatment as a Sustainable Technology (Sustainability: Contributions through Science and Technology)

Chi-wai Kan

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Industries worldwide have been impacted by environmental regulations, economics, and ultimately consumers, which has led to more thought about the development of sustainable products. The textile industry is no exception. The preparation, dyeing, and finishing of textile fibres requires large amounts of water and other chemicals which may be toxic or hazardous. Green chemistry along with other green technologies may now play a leading role in this process. This book emphasises the importance of plasma treatment as a green and sustainable technology.

A Novel Green Treatment for Textiles: Plasma Treatment as a Sustainable Technology discusses the plasma treatment of textile fibres and its environmental, economic, and social benefits. The book reviews the general properties of textiles and provides a description of the current treatment methods typically used today. The author then introduces the concept of plasma and its application in treating textile materials. The application of plasma as a pretreatment as well as a treatment in dyeing textiles is discussed.

The book summarizes the application of plasma treatment in the printing and finishing of textiles. Also explored is the concept of sustainability and its role in the development of plasma treatments in textile wet processing. The 12 Principles of Green Chemistry are incorporated throughout the book.



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