



## Silk: Processing, Properties and Applications (Woodhead Publishing Series in Textiles)

By K. Murugesh Babu

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### Silk: Processing, Properties and Applications (Woodhead Publishing Series in Textiles) By K. Murugesh Babu

Silk is a natural, environmentally-friendly fibre with a remarkable range of properties, making it ideal for use in apparel and many other applications. *Silk: Processing, properties and applications* provides an authoritative reference on sericulture, silk fabric processing, silk properties and its applications.

The book begins by looking at key aspects of sericulture, including the range of mulberry and non-mulberry species of silk worm, early and late stage rearing and harvesting of cocoons. Further chapters discuss reeling, weaving and spinning techniques as well as dyeing. The book also discusses the physical and chemical structure of silk as well as its mechanical and thermal properties. Concluding chapters discuss developments in applications and the properties of spider silk.

*Silk: Processing, properties and applications* is useful for textile technologists, fibre scientists and all those with an interest in the characteristics of silk, its production and the varied uses of this important fibre.

- Provides an in-depth summary of silk production, properties and structure-property relationships
- Examines the future of silk, including its application in the textile, biomedical, pharmaceutical and cosmetic industries
- Provides an authoritative reference on sericulture, silk fabric processing, silk properties and its applications

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## **Editorial Review**

### About the Author

K. Murugesh Babu is Professor and Head of the Department of Textile Technology, and Dean (Public & International Affairs), at the Bapuji Institute of Engineering and Technology (BIET), Davangere, Karnataka, India. He completed his postgraduate degree in textile technology at Anna University, Chennai, India, before obtaining his Ph.D. from the Indian Institute of Technology Delhi in 2001. Dr. Babu has been involved in several international assignments. In 2006, he was invited to the University of Oxford in the UK, to join a 1-year research project on silk based biomaterials. From 2007 to 2008, Dr. Babu was involved in advanced research on shape memory textiles and garments, at the Institute of Textiles and Clothing, Hong Kong Polytechnic University, Hong Kong. In 2014, Dr. Babu was awarded with the prestigious Commonwealth Fellowship by the Association of Commonwealth Universities, based in the UK. Under this fellowship, he was invited to become a Visiting Professor at the University of Maroua, Cameroon, Central Africa, in order to establish and develop the Department of Textiles. As well as writing the first edition of this book, Dr. Babu has published approximately 80 research papers, contributed 7 book chapters, and is recognized as a Technical Referee for 10 international textile/polymer journals. His main research areas include silk based biomaterials, natural fibre based eco-biocomposites, eco-friendly processing, organic cotton processing and eco-management concepts, natural anti-microbial agent based finishing of cotton and other fibres, and bamboo-blended fabric production and characterization.

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