

# **Advanced Textile Materials**

## **Part 1**

Edited by  
Xiaoming Qian and Huawu Liu

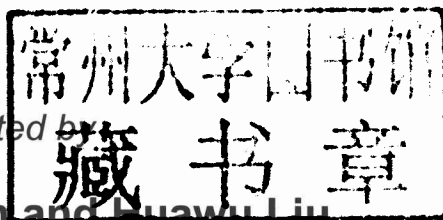
# Advanced Textile Materials

## PART 1

Selected, peer reviewed papers from the  
2011 International Conference on  
Textile Engineering and Materials  
(ICTEM 2011),  
September 23-25, 2011, Tianjin, China

*Edited by*

Xiaoming Qian and Huawu Liu



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## **PART 1**

Edited by  
Xiaoming Qian  
Huawu Liu

# Preface

The 2011 International Conference on Textile Engineering and Materials (ICTEM 2011) took place at Tianjin, China from September 23th to September 25th, 2011. ICTEM 2011 brings together an international audience interested in this area and related topics. The objectives of ICTEM 2011 are to foster research on the textile engineering and textile materials, to promote related international cooperation among scientists and engineers and to provide means for the public dissemination of the results from these efforts.

All papers included in this book are peer reviewed internationally before accepted for publication. This book covers the subject areas of natural fiber, chemical fiber, fiber manufacturing technology, principle of textile design, structure, properties and processes of textile materials, measurement technology and instrument, non-woven materials, structure, properties and processes of non-woven materials, coloration technology, finishing technology, pollution control and treatment of dyeing & finishing, materials and its applications, materials processing technologies and other related topics.

We would like to acknowledge the efforts of the organizers of ICTEM 2011, as well as the contributions of all the speakers and participants. Most importantly, we thank all referees for their constructive comments.

*Prof. Xiaoming Qian*  
*Tianjin Polytechnic University, China*

*Prof. Huawu Liu*  
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