



Textile Research Journal

Volume 81
Issue 1
January 2011

<http://trj.sagepub.com>

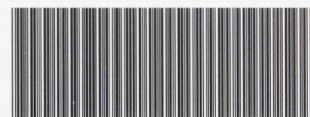
 SAGE Publications

Original articles

- 3 Optimal design of superfine polyamide fabric by electrostatic flocking technology
L Liu, H Xie, L Cheng, J Yu and S Yang
- 10 Theoretical control and experimental verification of a calender roller system part I: dynamic system modeling and model predictive controller design
C-FJ Kuo, J-S Chen, PV Hiep and H-M Tu
- 22 Numerical simulation of quasi-stationary ring spinning process linear elastic yarn
R Yin and H-b Gu
- 28 Modeling three-dimensional fabrics and three-dimensional reinforced composites: challenges and solutions
SV Lomov, G Perie, DS Ivanov, I Verpoest and D Marsal
- 42 Mathematical modelling of 3D woven fabrics for CAD/CAM software
X Chen
- 51 Mechanisms and kinetics of chelating reaction between chitosan and Pd(II) in chemical plating pretreatment
Y Dan, H Jinxin, M Yuehui and W Wei
- 58 Analysis of the CIE whiteness and whiteness tint of optically whitened cellulosic fabrics
M Tutak, O Demiryürek, Ş Bulut and D Haroğlu
- 67 Optimization of oligourethane methacrylate based UV paints composition for printing on cotton fabrics
EV Solina, VV Safonov and VB Ivanov
- 81 3D body scan analysis of dimensional change in lower body measurements for active body positions
S Choi and SP Ashdown
- 94 Performance of the CottonscanTM instrument for measuring the average fiber linear density (fineness) of cotton lint samples
AM Abbot, EF Hequet, GJ Higginson, SR Lucas, GRS Naylor, MM Purmalis and DP Thibodeaux
- 101 Photocatalytic self-cleaning textiles based on nanocrystalline titanium dioxide
K Qi, X Wang and JH Xin
- 111 Abstracts

ISSN 0040-5175

 **SAGE** www.sagepublications.com
Los Angeles • London • New Delhi • Singapore • Washington DC



0040-5175 (201101) 8101