Contents

4 Abstracts in Polish

GENERAL PROBLEMS OF THE FIBRE AND TEXTILE INDUSTRIES

8 Empirical Study on Social Initiatives of Small and Medium Enterprises (SMEs) in Indian Apparel Industry
R. Lakshmanan, R. Swamynathan, A. Mansurali

15 Improving Productivity in the Apparel Industry Through Gain Sharing and Continuous Process Improvement: the Case of a Serbian Manufacturer
D. Slović, I. Tomašević, M. Radović

RESEARCH AND DEVELOPMENT

23 Possibilities for the Estimation of Electrospun Nanofibre Diameter Distribution by Normal (Gaussian) Distribution
J. Maščauskienė, R. Miliūtis, E. Kuchanauskaitė

29 Image Segmentation Based Determination of Elastane Core Yarn Diameter
A. Hladnik, A. Pavko-Čuden, S. Farajiakh

37 Theoretical Study of the Effects of the General Division of a Ring Spinning Triangle on Fibre Tension
X. Su, W. Gao, X. Liu, C. Xie, B. Xu

44 Research on the Performance of a Drafting Device for the Four-Line Compact Spinning System
X. Su, W. Gao, X. Liu, C. Xie, B. Xu

52 Surface and Structural Damage to PLA Fibres during Textile Pretreatments
G. A. Baig, C. M. Carr

59 Comparative Study on the Properties of Vortex and Ring Spun Yarn and the Properties of Woven Fabrics Containing Those Yarns in Weft
K. Kostajnšek, K. Dimirovski

66 Applying Image Analysis for Automatic Density Measurement of High-tightness Woven Fabrics
R. Pan, J. Zhang, Z. Li, W. Gao, B. Xu, W. Li

73 Strain Monitoring in Woven Fabrics with Locally Induced Mass Irregularities Using an Image Based Method
S. Baghernezhad, M. Ghane, M. Moezzi

82 Prediction of Compression Properties of Single Jersey Weft-knitted Fabric by Finite Element Analysis Based on the Hyperfoam Material Model
Z. Soltanzadeh, S. Shaikhzadeh Najer, M. Haghpahanb, M. R. Mohajeri-Tehrani

89 Numerical and Experimental Analysis for Shape Improvement of a Cruciform Composite Laminates Specimen
J. C. Gutiérrez, A. Lozano, A. Manzano, M. S. Flores

95 Comparative Analysis of the Bursting Strength of Knitted Sandwich Fabrics
A. R. Ciobanu, L. Ciobanu, C. Dumitras, B. Sârgie

102 Engineering of Knitted Cotton Fabrics for Optimum Comfort in a Hot Climate
P. Mal, A. Ghosh, A. Majumdar, D. Banerjee

107 Estimation of Fibre Orientation in Paper Products by an Image Analysis On-line System
A. Erdman, T. Grzyb, P. Kaukab, J. Lazarek, S. Lis, K. Olejnik, M. Reziński, P. S. Szczepaniak, A. Wysocka-Robak

113 One-Bath One-Step Dyeing of a Polyester/Cotton Blend using the Pad-Dry-Fixation Process
A. S. Elshehemy, M. Kaukab

120 Evaluation of Antibacterial Activity of Flax Fibres Against the Staphylococcus aureus Bacteria Strain
M. Zimniewska, O. Goślińska-Kuźniarek

126 Antibacterial Activity of PLA Fibres Estimated by Quantitative Methods
D. Kaźmierczak, K. Guzińska, M. Dymel

131 Comparing Heuristic and Simulation Methods Applied to the Apparel Assembly Line Balancing Problem
M. Kayar, M. Akalin

139 Key Variables in the Control of Lead Time in Spinning Mills

CONFERENCES, FAIRS AND OTHER EVENTS

148 Future Events 2016

154 Information for Authors. Advertising and Subscription Information