Contents

4 Abstracts in Polish

GENERAL PROBLEMS OF THE FIBRE AND TEXTILE INDUSTRIES

7 Impact of External Determinants on the Functioning of Polish Clothing Manufacturers
   E. Grandys

10 The Analysis of Innovativeness-related Needs Among the Polish Protective Clothing Manufacturers
   M. Koszewska

RESEARCH AND DEVELOPMENT

14 The Effect of Solvent Type on the Mechanical Properties of Dibutyrylchitin (DBC) Fibres
   D. Wawro, W. Stęplewski, D. Ciechańska, I. Krucińska, E. Wesołowska

19 Influence of Forming Conditions on the Tensile Strength Properties of PAN Fibres
   Containing a Ferromagnetic Nanoaddition
   T. Mikołajczyk, M. Bogań, A. Kurzak, M. Wójcik, K. Nowicka

25 Influence of the Type Montmorillonite and the Conditions of Fibre Formation
   from a Polycrylonitrile Nanocomposite on the Fibre Properties
   T. Mikołajczyk, M. Bogań, G. Szparaga

32 Modelling the Dependencies Between the Structure of Feeding Streams and the Parameters
   of Cotton/Polyester Blended Yarns Manufactured with the Use of Ring- and Rotor Spinning Machines
   L. Jackowska-Stumilło, D. Czyński, J. Czekalski, T. Jackowski

38 Quality of Wool-Type Compact Yarns from Twisted and Rubbed Roving
   J. Czekalski, D. Czyński, T. Jackowski, K. Sieradzki

45 Air Flow in the Air-jet False-twist Spinning Chamber
   [D. Witczak, J. Goląński]

49 Spinning-in Fibres – a Quality Factor of Rotor Yarns
   D. Trajković, M. Stamenković, J. Stepanović, D. Radivojević

55 Using Fuzzy Logic to Evaluate and Predict the Chenille Yarn's Shrinkage Behaviour
   E. K. Çeven, Ö. Özdemir

60 Modelling the Stress-strain Curve of Textile Products. Part 2 – Simulation of Real Stress-strain Curves
   A. Serwatka, P. Bruniaux, I. Frydrych

63 A Study of the Damage Caused to Dyed Cotton Fibres and its Effects on the Properties
   of Rotor- and Ring-Spun Melange Yarns
   S. Karbalai Karim, A.A. Gharehaghaji, H. Tavanaie

68 Integrating an Object-oriented Approach and Rule-based Reasoning in the Design
   of a Fabric Fault Advisory Expert System
   N. Dlodlo, L. Hunter, C. Céle, R. Metelerkamp, A. F. Botha

74 Experimental Investigation of the Effect of Fabric Construction
   on Dynamic Water Absorption in Terry Fabrics
   M. Karahan

81 A Comparison of the Key Parameters Affecting Dynamic and Static Drape Coefficients
   of Natural Fibre Woven Fabrics by a Newly Devised Dynamic Drape Automatic Measuring System
   T. W. Shye, P. N. Wang, K. B. Cheng

87 An Experimental Study on Thickness Loss of Wilton type Carpets Produced with Different Pile Materials
   after Prolonged Heavy Static Loading. Part 2 – Energy Absorption and Hysteresis Effect
   N. Cetšk, E. Koc

93 Analysis of Modular Manufacturing System in Clothing Industry by Using Simulation
   F. Kalaoğlu, C. Saricam

97 Form Durability of Clothing Laminates from the Standpoint of Maintenance Procedures
   M. Pavłowa, H. Szafrańska

102 The Unstable Behaviour of Reciprocally Rotating Shafts in Textile Machines
   J. Zajączkowski

105 Development of a Manufacturing Method for Surgical Meshes Modified by Chitosan
   A. Niekraszewicz, M. Kusharska, D. Wawro, M. H. Struszczuk, K. Kopas, A. Rogaczewska

110 Information for Authors, Advertising and Subscription Information

XIPS’ 2007 - p. 59, 39th Interuniversity Conf. of Metrologists - p. 67, Univ. of Bielsko-Biała, Faculty of Materials and
Environmental Sciences - p. 73, 1st Aachen-Dresden Inter. Textile Conf. - p. 80, TEXMEDECOS NET - p. 101, The Colours of