

References

1. Grabowska KE and Ciesielska-Wróbel I. Characteristic and Application of Knop Fancy Yarns. *Fibres & Textiles in Eastern Europe* 2015; 23, 1(109): 17-25.
2. Grabowska KE. Comparative Analysis of Fancy Yarns Produced on a Ring Twisting System. *Fibres & Textiles in Eastern Europe* 2010; 18, 1(78): 36-40.
3. Ilhan I, Babaarslan O and Vuruskan D. Effect of Descriptive Parameters of Slub Yarn on Strength and Elongation Properties. *Fibres and Textiles in Eastern Europe* 2012; 20, 3(92): 33-38.
4. Lu Y, Gao W and Wang H. A model for the twist distribution in the slub-yarn. *International Journal of Clothing Science and Technology* 2007; 19: 36-42.
5. Ilhan I, Babaarslan O and Vuruskan D. A Theoretical Model and Practical Observation for Prediction of Slub Yarn Counts. *TekstilvaKonfeksiyon* 2010; 20: 306-312.
6. Souid H, Babay A, Sahnoun M and Cheikrouhou M.. A Comparative Quality Optimization Between Ring Spun and Slub Yarns By Using Desirability Function. *AUTEX Research Journal* 2008; 8:72-76.
7. Pan R, Gao W, Liu J and Wang H. Recognition the Parameters of Slub-yarn Based on Image Analysis. *Journal of Engineered Fibers and Fabrics* 2011; 6: 25-30.
8. Moezzi M, Ghane M, Nicoletto G and JafariNedoushan R.. Analysis of the mechanical response of a woven polymeric fabric with locally induced damage. *Material & Design* 2014; 54: 79-90.
9. Lijun Q, Zhang Z, Li X, Yang X, Feng Z, Wang Y, Miao H, He L and Gong X.. Full-field analysis of shear test on 3D orthogonal woven C/C composites. *Composites: Part A: Applied Science and Manufacturing* 2012; 43: 10-16.
10. Ragaiiene A and Milaiene D. Mathematical Simulation of Elongation at Break after Fatigue Loading of Fabrics Containing Fancy Yarns. *Fibres & Textiles in Eastern Europe* 2013; 21, 4(100): 67-74.
11. Devivier C, Pierron F, and Wisnom MR. Damage detection in composite materials using deflectometry, a full-field slope measurement technique. *Composites: Part A: Applied Science and Manufacturing* 2012; 43: 50-66.
12. Caminero MA, Lopez-Pedrosa M, Pinna C and Soutis C. Damage monitoring and analysis of composite laminates with an open hole and adhesively bonded repairs using digital image correlation. *Composites: Part B: Engineering* 2013; 53: 76-91.
13. Xin B and Hu J. An image based method for characterizing the mechanical behaviors of fabrics. Part 1: The measurement of in-plane tensile behavior. *Fibres and Textiles in Eastern Europe* 2008; 16, 1(66): 72-75.
14. Xin B, Li Y, Qiu J and Liu Y. Texture modeling of fabric appearance evaluation based on image analysis. *Fibres and Textiles in Eastern Europe* 2012; 20, 2(91): 48-52.
15. Ezazshahabi N, Latifi M and Madanipour K.. Surface roughness assessment of woven fabrics using fringe projection moiré techniques. *Fibres and Textiles in Eastern Europe* 2015; 23, 3(111):76-84.

16. YekaniFard M, Sadat SM, Raji BB and Chattopadhyay A. Damage characterization of surface and sub-surface defects in stitch-bonded biaxial carbon/epoxy composites. *Composites: Part B: Engineering* 2014; 56: 821-829.
17. Chu TC, Ranson WF, Sutton MA, and Peters WH. Applications of digital-image-correlation techniques to experimental mechanics. *Experimental Mechanics* 1985; 25: 232-244.
18. Pan B, QianK M, Xie HM and Asundi A.. Two-dimensional Digital Image Correlation for In-plane Displacement and Strain Measurement: A Review. *Measurement Science and Technology* 2009; 20: 062001.
19. Pan B, Xie HM, Xu BQ and Dai FL. Performance of sub-pixel registration algorithms in digital image correlation. *Measurement Science and Technology* 2006; 17: 1615-1621.
20. Pan B, Asundi A, Xie H M and Gao J X. Digital Image correlation using iterative least squares and point wise least squares for displacement field and strain field measurements. *Optics and Lasers in Engineering* 2009; 47: 865-874.
21. Jin H Q and Bruck H A. Theoretical development for pointwise digital image correlation. *Optical Engineering* 2005; 44: 1-14.
22. Cheng P, Sutton MA, Schreier HW and McNeill SR. Full-field speckle pattern image correlation with B-spline deformation function. *Experimental Mechanics* 2002; 42: 344-352.
23. Sun Y, Pang JHL, Wong CK and Su F. Finite element formulation for a digital image correlation method. *Applied Optics* 2005; 44: 7357-7363.
24. Besnard G, Hild F and Roux S. Finite-element displacement fields analysis from digital images: application to Portevin-le chaterlier bands, *Experimental Mechanics* 2006; 46: 789-803.
25. Rethore J, Hild F and Roux S. Shear-band capturing using a multiscale extended digital image correlation technique. *Computer Methods Applied Mechanics Engineering* 2007; 196: 5016-5030.
26. Rethore J, Hild F and Roux S. Extended digital image correlation with crack shape optimization. *International journal of Numerical Methods in Engineering* 2008; 732: 248-272.
27. Bruck HA, McNeil SR, Sutton MA and Peters WH. Digital image correlation using Newton-Raphson method of partial differential correction, *Experimental Mechanics* 1989; 29: 261-267.
28. Vendroux G and Knauss WG. Submicron Deformation Field Measurements: Part 2 improved Digital Image Correlation. *Experimental Mechanics* 1998; 38: 86-92.
29. Pan B. Reliability-guided digital image correlation for image deformation measurement. *Applied Optics* 2009; 48: 1535-1542.
30. ASTM International. (2001). *Standard Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method*, ASTM D 1907- 01. West Conshohocken, PA: Annual book of ASTM standards.
31. ASTM International. (2002). *Standard Test Method for Tensile Properties of Yarns by the Single-Strand Method1*, ASTM D 2256- 02. West Conshohocken, PA: Annual book of ASTM standards.
32. ASTM International (1995) *Standard test method for breaking force and elongation of textile fabrics (strip method)*, ASTM D 5035- 95. West Conshohocken, PA: Annual book of ASTM standards.

33. <http://www.opticist.org/node/73>.
34. Pan B, Xie HM, Guo ZQ and Hua T. Full-field strain measurement using a two-dimensional Savitzky-Golay digital differentiator in digital image correlation. *Optical Engineering* 2007; 46: 033601.
35. Montgomery DC. *Introduction of Linear Regression Analysis*, 5th ed. meas Hoboken, New Jersey: Wiley Series in Probability and Statistics, 2012.