

## References

1. Azzam A, Li W. Experimental investigation on the impact behaviour of composite laminate. *FIBRES & TEXTILES in Eastern Europe* 2015; 23, 1(109): 77-84.
2. Bednarczyk BA, Stier B, Simon J-W, Reese S, Pineda EJ. Meso- and micro-scale modeling of damage in plain weave composites. *Composite Structures* 2015; 121: 258-270.
3. Goda I, Assidi M, Ganghoffer J-F. Equivalent mechanical properties of textile monolayers from discrete asymptotic homogenization. *Journal of the Mechanics and Physics of Solids* 2013; 61: 2537-2565.
4. Gatouillat S, Bareggi A, Vidal-Sallé E, Boisse P. Meso modelling for composite preform shaping - Simulation of the loss of cohesion of the woven fibre network. *Composites: Part A* 2013; 54: 135-144.
5. Stadnicki J, Tokarz Z. Mesoscale finite element model for calculating deformations of laminate composite constructions. *Advances in Mechanical Engineering* 2016; 8(2): 1-9.
6. Marszałek J. Mezoskalowe modele MES kompozytów o zmiennej orientacji warstw wzmocnienia. *Przegląd Mechaniczny* 2017; 7-8: 39-41.
7. Soni G, Singh R, Mitra M, Falzon BG. Modelling matrix damage and fibre-matrix interfacial decohesion in composite laminates via a multi-fibre multi-layer representative volume element (M<sup>2</sup>RVE). *International Journal of Solids and Structures* 2014; 51: 449-461.
8. Jia X, Xia Z, Gu B. Nonlinear viscoelastic multi-scale repetitive unit cell model of 3D woven composites with damage evolution. *International Journal of Solids and Structures* 2013; 50: 3539-3554.
9. de Morais AB, Pereira AB. Mixed mode II + III interlaminar fracture of carbon/epoxy laminates. *Composites Science and Technology* 2008; 68: 2022-2027.
10. Liu PF, Islam MM. A nonlinear cohesive model for mixed-mode delamination of composite laminates. *Composite Structures* 2013; 106: 47-56.
11. ANSYS Inc., ANSYS Mechanical APDL Theory Reference ver. 17.2; 2016.
12. Skvortsov YuV, Chernyakin SA, Glushkov SV, Perov SN. Simulation of fatigue delamination growth in composite laminates under mode I loading. *Applied Mathematical Modelling* 2016; 40:7216-7224.
13. Lindgaard E, Bak BLV, Glud JA, Sjølund J, Christensen ET. A user programmed cohesive zone finite element for ANSYS Mechanical. *Engineering Fracture Mechanics* 2017; 180: 229-239.
14. Naghipour P, Schneider J, Bartsch M, Hausmann J, Voggenreiter H. Fracture simulation of CFRP laminates in mixed mode bending. *Engineering Fracture Mechanics* 2009; 76: 2821-2833.
15. Carlsson LA, Adams DF, Pipes RB. *Experimental characterization of advanced composite materials - fourth edition*. CRC Press, Boca Raton, FL, 2014.
16. Marat-Mendes R, de Freitas M. Characterisation of the edge crack torsion (ECT) test for the measurement of the mode III interlaminar fracture toughness. *Engineering Fracture Mechanics* 2009; 76: 2799-2809.