

Prehľad výsledkov vedeckej školiacej činnosti doktorandov.

- Počet ukončených doktorandov: 1
- Počet doktorandov po dizertačnej skúške: 1

Jozef Kšiňan

- Študijný program: Teória a navrhovanie inžinierskych stavieb
- Doba štúdia: 2012 – 2016, int.
- Školiteľ: doc. Ing. Roman Vodička, PhD.
- Téma dizertačnej práce: Analýza problémov s trhlinami na rozhraní materiálov
- Obhájená práca: Crack initiation and propagation at various interfaces with frictional contact related to composite materials, feb. 2017
- Zahraničné publikácie:
 - Vedecké práce v zahraničných karentovaných časopisoch:
 - An 2-D SGBEM formulation of contact models coupling the interface damage and Coulomb friction in fibre–matrix composites / J. Kšiňan, R. Vodička - 2016.In: Engineering Fracture Mechanics. (2016), p. 1-17. - ISSN 0013-7944 Spôsob prístupu: <http://dx.doi.org/10.1016/j.engfracmech.2016.02.043>. [KŠIŇAN, Jozef (50%) - VODIČKA, Roman (50%)]
 - Vedecké práce v zahraničných nekarentovaných časopisoch
 - An energetic approach for interface delamination problem in sliding mode with cohesive or adhesive contact / Jozef Kšiňan, Roman Vodička - 2013.In: Transaction of the VŠB - Technical university of Ostrava : Civil Engineering series. Vol. 13, no. 2 (2013), p. 33-42. - ISSN 1213-1962 [KŠIŇAN, Jozef (60%) - VODIČKA, Roman (40%)]
 - Publikované príspevky na zahraničných vedeckých konferenciách
 - A numerical analysis of interface crack propagation in shearing mode with cohesive and adhesive type contact / Jozef Kšiňan, Roman Vodička - 2013.In: Modelování v mechanice 2013 : Sborník příspěvků vědecké konference : 22. - 23. května 2013, Ostrava, Czech Republic. - Ostrava : VŠB-TU, 2013 P. 1-14. - ISBN 978-80-248-2985-2 [KŠIŇAN, Jozef (60%) - VODIČKA, Roman (40%)]
 - An SGBEM implementation of crack propagation at a fibre-matrix interface / Jozef Kšiňan, Roman Vodička - 2014.In: ECCM16 : 16th European Conference on Composite Materials : June 22nd - 26th, 2014, Seville, Spain. - Spain : European Society for Composite Materials, 2014 P. 1-8. - ISBN 978-84-616-9798-4 [KŠIŇAN, Jozef (50%) - VODIČKA, Roman (50%)]
 - An SGBEM formulation for cohesive delamination model with Coulomb friction / Jozef Kšiňan, Roman Vodička - 2014.In: 11th. World Congress on Computational Mechanics (WCCM 11) : 5th. European Conference on Computational Mechanics (ECCM 5) : 6th. European Conference on Computational Fluid Dynamics (ECFD 6) : Barcelona, Spain, July 20-25, 2014. - Barcelona : International Center for Numerical Methods in Engineering (CIMNE), 2014 P. 6517-6528. - ISBN 978-84-942844-7-2 [KŠIŇAN, Jozef (50%) - VODIČKA, Roman (50%)]
 - A new interface damage model with frictional contact. An SGBEM formulation and implementation / Jozef Kšiňan, Vladislav Mantič, Roman Vodička - 2014.In: Boundary Element and Meshless Techniques 15 : international conference : 15-17 July 2014, Florence, Italy. - Eastleigh : EC, Ltd, 2014 P. 60-67. - ISBN 978-0-9576731-1-3 [KŠIŇAN, Jozef (34%) - MANTIČ, Vladislav (33%) - VODIČKA, Roman (33%)]
 - Cohesive-zone modelling of shear connection with Coulomb friction and interface damage. An SGBEM implementation and application / Jozef Kšiňan, Filip Kšiňan, Roman Vodička - 2015.In: Advances in Boundary Element and Meshless Techniques

16. - Eastleigh : EC, 2015 P. 162-169. - ISBN 978-0-9576731-2-0
[KŠIŇAN, Jozef (34%) - KŠIŇAN, Filip (33%) - VODIČKA, Roman (33%)]
- A new cohesive interface model coupling the interface damage and Coulomb Friction. An application to fibre-matrix composites / Jozef Kšiňan, Roman Vodička, Vladislav Mantič - 2015.In: International Congress of Croatian Society of Mechanics. - Zagreb : Croatian Society of Mechanics, 2015 P. 1-17. - ISBN 978-953-7539-21-4 [KŠIŇAN, Jozef (34%) - VODIČKA, Roman (33%) - MANTIČ, Vladislav (33%)]
 - The influence of friction on delamination in Fibre-Reinforced Composites, An SGBEM implementation / Jozef Kšiňan, Roman Vodička - 2016.In: Procedia Structural Integrity : ECF21. - Holandsko : Elsevier, 2016 Vol. 2 (2016), p. 197-204. - ISSN 2452-3216 [KŠIŇAN, Jozef (60%) - VODIČKA, Roman (40%)]
 - Interfacial debonds in unidirectional fibre-reinforced composites exposed to biaxial loads / Roman Vodička, Jozef Kšiňan - 2017.In: Procedia Engineering : SPACE 2016. - Amsterdam : Elsevier, 2017 Vol. 190 (2017), p. 433-440. - ISSN 1877-7058 [VODIČKA, Roman (50%) - KŠIŇAN, Jozef (50%)]

Filip Kšiňan

- Študijný program: Teória a navrhovanie inžinierskych stavieb
- Doba štúdia: 2015 – 2021, ext.
- Školiteľ: doc. Ing. Roman Vodička, PhD.
- Školiteľ-konzultant: doc. Ing. Eva Kormaníková, PhD.
- Téma dizertačnej práce: Riešenie problémov poškodenia spojenia konštrukčných prvkov metódami nelineárneho programovania
- Dizertačná skúška: marec 2018
- Vybrané zahraničné publikácie:
 - Vedecké práce v zahraničných karentovaných časopisoch
 - Interfacial debonds of layered anisotropic materials using a quasi-static interface damage model with Coulomb friction / Roman Vodička, Eva Kormaníková, Filip Kšiňan - 2018.In: International journal of fracture. Roč. 211, č. 1-2 (2018), s. 163-182 [print]. - ISSN 0376-9429 Spôsob prístupu: <https://doi.org/10.1007/s10704-018-0281-z>. [VODIČKA, Roman (34%) - KORMANÍKOVÁ, Eva (33%) - KŠIŇAN, Filip (33%)]
 - Vedecké práce v zahraničných nekarentovaných časopisoch
 - A quasi-static interface damage model with frictional contact – applications to steel reinforced concrete structures / Roman Vodička, Filip Kšiňan - 2018.In: Computational Methods and Experimental Measurements. Vol. 6, no. 6 (2018), p. 1043-1056. - ISSN 2046-0546 [VODIČKA, Roman (50%) - KŠIŇAN, Filip (50%)]
 - Publikované príspevky na zahraničných vedeckých konferenciách(4)
 - Cohesive-zone modelling of shear connection with Coulomb friction and interface damage. An SGBEM implementation and application / Jozef Kšiňan, Filip Kšiňan, Roman Vodička - 2015.In: Advances in Boundary Element and Meshless Techniques 16. - Eastleigh : EC, 2015 P. 162-169. - ISBN 978-0-9576731-2-0 [KŠIŇAN, Jozef (34%) - KŠIŇAN, Filip (33%) - VODIČKA, Roman (33%)]
 - Quasi-static delamination model for layered anisotropic material structures / Filip Kšiňan, Roman Vodička - 2016.In: ECCM17. - Munich : ECCM, 2016 P. 1-7. - ISBN 978-3-00-053387-7 [KŠIŇAN, Filip (60%) - VODIČKA, Roman (40%)]
 - A quasi-static model of delamination for structures made of anisotropic layers implemented by SGBEM and nonlinear programming / Roman Vodička, Filip Kšiňan - 2017.In: Advances In Boundary Element and Meshless Techniques 18 : Boundry Element Techniques Conference 2017 :. - Eastleigh : EC, Ltd., 2017 P. 154-161. - ISBN 978-0-9576731-4-4 [VODIČKA, Roman (50%) - KŠIŇAN, Filip (50%)]
 - A quasi-static delamination model with interface damage and friction for layered structures / Roman Vodička, Filip Kšiňan - 2018.In: Advances in Boundary Element and Meshless Techniques 19. - Eastleigh (Veľká Británia) : EC, Ltd, UK s. 103-110 [print]. - ISBN 978-0-9576731-5-1 [VODIČKA, Roman (50%) - KŠIŇAN, Filip (50%)]

Marek Petřík

- Študijný program: Teória a navrhovanie inžinierskych stavieb
- Doba štúdia: 2013 – 2015 nedokončené
- Školiteľ: doc. Ing. Roman Vodička, PhD.
- Téma dizertačnej práce: Analýza problémov s porušením na rozhraní medzi anizotropnými materiálmi
- Zahraničná publikácia:
 - Vedecké práce v zahraničných karentovaných časopisoch
 - Degenerate scales for boundary value problems in anisotropic elasticity / Roman Vodička, Marek Petřík - 2015. In: International Journal of Solids and Structures. Vol. 52 (2015), p. 209-219. - ISSN 0020-7683 Spôsob prístupu:
<http://www.sciencedirect.com/science/article/pii/S0020768314003758>.
[VODIČKA, Roman (60%) - PETRÍK, Marek (40%)]