A N E X A 4 . 1 F V

Universitatea Națională de Știință și Tehnologie POLITEHNICA Bucureşti
Facultatea: Inginerie Industrială și Robotică
Departamentul: Rezistența Materialelor
Nume Prenume: VLĂSCEANU Daniel
Gradul didactic: Conferențiar

LISTA
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Titlu: Contribuții privind comportamentul mecanic al structurilor axial simetrice din materiale hiperelastice
Conducător doctorat: Prof.dr.ing. Horia Miron GHEORGHIU
Instituţia:Universitatea POLITEHNICA din București
Anul: 2011

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1. Vlăsceanu D., Stochioiu C, ”Noțiuni de mecanică și Rezistența materialelor”,., Editura Bren, , ISBN 978-973-610-207-0, 2017
2. Jiga, G., Pastramă, Şt., Vlăsceanu, D.., ş.a. “Teste grilă de Rezistenţa materialelor“, , Editura Tehnică INFO Chişinău, Republica Moldova, 2004
3. Jiga, G., Vlăsceanu D., Baciu F., „Rezistenţa materialelor – Teste grilă pentru facultăţile de profil nemecanic”, , Editura Printech, ISBN 978-973-718-681-2, 2007
4. Amza C.G., Cicic D.T., Rontescu C. D. Vlăsceanu,”Calculatoare electronice si retele de calculatoare”, Ed. Printech, ISBN 978-606-23-0257-3, pag. 301, Cota III 327631, 2014.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

ISI

1. Vlasceanu, D; Popescu, D ; Baciu, F ; Stochioiu, C, Examining the Flexural Behavior of Thermoformed 3D-Printed Wrist-Hand Orthoses: Role of Material, Infill Density, and Wear Conditions, POLYMERS, Volume16, Issue16, DOI10.3390/polym16162359, August 2024, WOS:001305806300001, Q1, IF 4.9
2. Hadar, A ; Voicu, AD ; Baciu, F ; Vlasceanu, D ; Tudose, DI ; Pastrama, SD, A Novel Composite Helicopter Tail Rotor Blade with Enhanced Mechanical Properties, AEROSPACE, Volume10, Issue7, Article Number 647, DOI10.3390/aerospace10070647, WOS:001034748500001, 2023, Q2, IF 2.2
3. Popescu, D; Baciu, F ; Vlasceanu, D ; Marinescu, R ; Laptoiu, D, Investigations on the Fatigue Behavior of 3D-Printed and Thermoformed Polylactic Acid Wrist-Hand Orthoses, POLYMERS, Volume15, Issue12, Article Number2737, DOI10.3390/polym15122737, WOS:001017739100001, 2023, Q1, IF 4.9
4. Baciu, F; Hadar, A ; Voicu, AD ; Vlasceanu, D ; Tudose, DI , Experimental and Numerical Analysis of Chlorinated Polyethylene Honeycomb Mechanical Performance as Opposed to an Aluminum Alloy Design, MATERIALS, Volume15, Issue22, Article Number8034, DOI10.3390/ma15228034, PublishedNOV 2022, Indexed 2022-12-08, WOS:000887689400001, Q2, IF 3.2
5. Hadar, A; Baciu, F ; Voicu, AD ; Vlasceanu, D ; Tudose, DI; Adetu, C, Mechanical Characteristics Evaluation of a Single Ply and Multi-Ply Carbon Fiber-Reinforced Plastic Subjected to Tensile and Bending Loads, POLYMERS, Volume14, Issue15, Article Number3213, DOI10.3390/polym14153213, PublishedAUG 2022, Indexed 2022-08-23, Q1, IF 4.9
6. Popescu, D; Baciu, F; Vlasceanu, D; Cotrut, CM; Marinescu, R, Effects of multiple sterilizations and natural aging on the mechanical behavior of 3D-printed ABS, MECHANICS OF MATERIALS, Volume: 148, Article

Number: 103423, DOI: 10.1016/j.mechmat.2020.103423, Published: SEP 2020, WOS:000556753500012, Q2, IF 4.1

7. Andrei Daniel Voicu Anton Hadăr Daniel Vlăsceanu, Validation of a Numerical Fluid Flow Analysis for a Helicopter Tail Rotor Blade Using a Subsonic Wind Tunnel, Macromolecular Symposia, Special Issue:International Conference on Design and Technologies for Polymeric and Composite Products - POLCOM 2019, Volume 389, Issue 1, ttps://doi.org/10.1002/masy.201900099, 2020
8. Andrei Daniel Voicu, Anton Hadar, Daniel Vlasceanu, Improving the Mechanical Behavior of a Helicopter Tail Rotor Blade Through the Use of Polyurethane Foams, REVISTA DE CHIMIE, Edition: Volume: 70 Issue: 11 Pages: 4123-4127, WOS: 000503185300073, 2019
9. Ionescu, A; Dodi, A; Panagopoulos, V; Nicolescu, MI; Mihai, AT; Tanase, G; Vlasceanu, D, Biomechanical consequences of dental implants inserted in augmented alveolar ridges - a comparative study between tissue-level and bone-level implants: finite elements analysis, ROMANIAN JOURNAL OF ORAL REHABILITATION,Volume: 11 Issue: 1 Pages: 82-88, WOS 000461488000011, 2019
10. Baciu Florin, Daniel Vlasceanu, Anton Hadar, The Influence of 3D Printing Parameters on Elastic and Mechanical Characteristics of Polylactide, Materials Science Forum 957:483-492, DOI: 10.4028/www.scientific.net/MSF.957.483, 2019
11. Baciu Florin, Daniel Vlasceanu, Anton Hadar, The Influence of 3D Printing Parameters on Elastic and Mechanical Characteristics of Polylactide, Materials Science Forum 957:483-492 DOI: 10.4028/www.scientific.net/MSF.957.483, 2019
12. Vlasceanu D., Baciu F., Popescu D., Hadar A., Marinescu R., Development and 3D Printing of an ABS Ergonomic Handle for Medical Use A case study, Revista de Materiale plastice volume: 55 Issue: 4 Pages: 630-633, WOS 000454987400037, 2018
13. Badoi, I., Constantinescu D.M., Vlasceanu D., Design and processing of fgcm materials for applications subjected to intensive abrasive wear, Key Engineering Materials, Volume 750 KEM, , Pages 137-141, 2017
14. Badoi, I., Constantinescu D.M., Vlasceanu D., Microstructure and mechanical properties in industrial applications processes for FGM /FGCM materials, 33rd Danubia Adria Symposium on Advances in Experimental Mechanics, 2016, Pages 104-105, 2016
15. Nutu E., Petrescu H.A., Vlasceanu D., Gruionu L., Pastrama S.D., ” Development of a Finite Element Model for Lung Tumor Displacements During Breathing”, Materials Today: Proceedings, vol. 3, nr. 4, ISSN 22147853, WOS 000373068900036, 2016.
16. Horia-Alexandru, P; Rudy, M ; Daniel, Vlasceanu ; Anton, H ; Ioan, P ; Radu, D, Modal analysis using fem of three active elements for an agricultural machine, Aktualni zadaci mehanizacije poljoprivrede: actual tasks on agricultural engineering,Book Series: Actual Tasks on Agricultural Engineering-ZagrebVolume: 43 Pages: 201-209, WOS 000373450700017, 2015
17. Ormenisan A., Tarcolea M., Suciu M., Grigoras R.I., Beresescu F.G., Vlasceanu D., Hancu V., Comaneanu R.-M., ” FEA on mastication efforts during osteosynthesis of a fractured mandible”, Rev. Materiale Plastice, vol. 52, nr. 3, ISSN 255289, WOS 000362382300022, 2015.
18. Horia Alexandru Petrescu, Daniel Vlasceanu, Stefan Dan Pastrama, Lucian Gruionu, Numerical Analysis for Determining the Displacements of a Lung Tumor, Key Engineering Materials 638:177-182, DOI: 0.4028/www.scientific.net/KEM.638.177, 2015
19. Daniel Vlasceanu, Mihaela Marin, Horia Alexandru Petrescu, Elena Preoteasa, Horia Miron Gheorghiu, Investigation of the Mechanical Behavior of Mandibular Overdentures Using Finite Element Method, Key Engineering Materials 638:165-170, DOI: 0.4028/www.scientific.net/KEM.638.165, 2015
20. Horia Alexandru Petrescu, Daniel Vlasceanu, Andrei Stamate, Robert Bololoi, Stela Carmen Hanganu, Finite Element Analyses Comparison Between Normal Teeth and Prosthetic Teeth, Key Engineering Materials 638:155-160, DOI: 0.4028/www.scientific.net/KEM.638.155, 2015
21. Daniel Vlasceanu, Andrei Stamate, Horia Alexandru Petrescu, Gabriel Jiga, Mihai Tarcolea, Comparative Study to Determine the State of Tension Using FEM in a Premolar Restored with a Composite Inlay versus a Ceramic Inlay, Key Engineering Materials 638:135-140, DOI: 0.4028/www.scientific.net/KEM.638.135, 2015
22. Stamate, A.; Vlasceanu, D.; Margarit, R ; Luca, R; Caraiane, A, 3D Analysis of the Accumulated Stresses in a Premolar Restored with a Composite Inlay versus a Ceramic Inlay, MATERIALE PLASTICE, Volume: 51 Issue: 3 Pages: 286-289, 2014.

23. Mitroi, E.; Vlasceanu, D., Applicability of Self-reinforced Poly lactic Acid in Humeral Transcondylar Osteosynthesis, Materiale Plastice,Volume: 51 Issue: 4 Pages: 396-400, 2014.

ISI PROCEEDINGS

1. Tarcolea, M ; Vlasceanu, D ; Cotrut, MC ; Vranceanu, MD ; Comaneanu, RM, *Mechanical Effects of Simulated Pressure and Temperature Conditions on Porcelain Dental Bridges*, Advanced materials and structures V, Book Series: Solid State Phenomena,Volume: 216 Pages: 157-162, DOI: 10.4028/www.scientific.net/SSP.216.157, 2014.
2. Comaneanu, RM ; Barbu, HM ; Vlasceanu, D ; Tarcolea, M, *Numerical Analyses of Stresses and Strains in Bone - Implant Assembly*, Key Engineering Materials, Volume: 583 Pages: 169-174, DOI: 10.4028/www.scientific.net/KEM.583.169, 2014.
3. Petrescu H.-A., Vlasceanu D., Pastrama S.D., Gruionu L., *Numerical analysis for determining the displacements of a lung tumor,* Key Engineering Materials, Volume: 638 Pages: 177-182, DOI: 10.4028/www.scientific.net/KEM.638.177, 2014.
4. Mitroi Eduard, Vlasceanu Daniel, Bajenescu Titi, Petrescu Horia-Alexandru, "*A novel implant regarding transcondylar humeral fractures stabilization. A comparative study of two approaches*", 24th DAAAM International Symposium on Intelligent Manufacturing and Automation, 2013, Zadar, Croatia.
5. Nicolae Golumbeanu, Raluca Monica Comăneanu, Costin Coman, Violeta Hancu, Daniel Vlăsceanu, Emilian Hutu „*Studiul tensiunilor şi deformaţiilor apărute la nivelul coroanelor metalo-ceramice aplicate pe implanturi dentare şi la nivelul interfeţei os-implant*", Revista Română de Stomatologie, vol. LIX, nr. 1, 2013, pag. 15-19, ISSN 1843-0805, cotată B+, indexată în Bazele de Date Internaţionale EBSCO, Scirius, getCITED şi WAME..
6. F. Baciu, Ş.D. Pastramă, H. Gheorghiu, D. Vlăsceanu, "*Experimental determination of mechanical characteristics of steel for numerical simulation of the welding process*", Proceedings of the 29th Danubia Adria Symposium on Advances in Experimental Mechanics, Belgrade, Serbia, 26-29 September, pp. 118-119, 2012.
7. Nica, V. M.; Vlasceanu, D. & Gheorghiu, H., "*FEM analysis of two dental screw implants positions for improving osteointegration*", Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium, Volume 23, No.1, ISSN 2304-1382,ISBN 978-3-901509-91-9, Vienna, Austria, EU, 2012.
8. Jiga, G.; Dinu, G.; Vlasceanu, D. & Opran, C., "*Study on dynamic properties of structural composite systems equipping safety guardrails*" , Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium, Volume 23, No.1, ISSN 2304-1382,ISBN 978-3-901509-91-9, Vienna, Austria, EU, 2012.
9. Jiga Gabriel, Vlăsceanu Daniel, Zambal Tiberiu, *Analytical and numerical study of the stability phenomenon of a punching die*, UPB Sci. Bull, Series D, vol. 73, Iss. 3, 2011.
10. Vlăsceanu D., Gheorghiu H., Pastramă Șt., D., "*Experimental determination of the mooney-Rivlin parameters for hyperelastic materials like rubber*", 28th Danubia-Adria Sympossium, Scientific Society for Mechanical Engineering, Siofok, Ungaria, p. 281-282, 2011.
11. C. Atanasiu, Ş.D. Pastramă, F. Baciu, D. Vlăsceanu – *Pure shearing tests of a Prandtl-type material*, Scientific Bulletin – University Politehnica of Bucharest, Series D: Mechanical Engineering, vol. 72, nr. 3, pp. 49-58, 2010.

12. B. Rădoiu, D. Vlăsceanu, N. Peride, ”*Parapets plated with composite rubber - a comparative study of behaviour at shock*”, Applied Mathematics and Mechanics, nr. 53, vol.II, Cluj-Napoca, Romania, 2010

BDI

1. Baciu F., Pastrama S.-D., Gheorghiu H., Vlasceanu D., Experimental determination of mechanicalcharacteristics of steel for numerical simulation of the welding process, 29th DANUBlA-ADRIA Symposium on Advances in Experimental Mechanics, DAS 2012, 2012, Vol. , Issue Pag. 118-119, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006975583&partnerID=40&md5=5844acd963b841eaa1228c1114838301;
2. Be.02. Nica V.M., Vlasceanu D., Gheorghiu H., FEM analysis of two dental screw implants positions for improving osteointegration, 23rd DAAAM International Symposium on Intelligent Manufacturing and Automation 2012, 2012, Vol. 2, Issue Pag. 989-992.
3. Be.03. Jiga G., Vlăsceanu D., Zambal T., Analytical and numerical study of the stability phenomenon of a punching die, UPB Scientific Bulletin, Series D: Mechanical Engineering, 2011, Vol. 73, Issue 3, Pag. 135-144, ISSN 14542358..

D. Lucrări publicate în ultimii 10 ani în reviste şi volume de conferinţe cu referenţi (neindexate) – selecţie max. 20 lucrări

1. Diana POPESCU, Daniel VLĂSCEANU, Lucian CURSARU, Florin BACIU, Anton HADAR, Low-temperature sterilization influence on fused deposition modelling parts, Proceedings in Manufacturing Systems, Volume 11, Issue 3, 2016, 151–158 ISSN 2067-9238, 2016
2. Babia Alexander, Gheorghiu Horia, Vlăsceanu Daniel, Mechanical behavior of the mandible-strut assembly with one and two plates, 11th International Conference on Management of Innovative Technologies 2011, Fiesa, Slovenia
3. D. Vlăsceanu, D. Tudor, A. Hadar, H. Gheorghiu, "Static analysis using finite element method a mandible-strut plate assembly", 4th International Conference "Biomaterials, Tissue Engineering &Medical Devices" , 23-25 September, 2010, Sinaia, Romania.
4. M. Tarcolea, R.M. Comaneanu, D. Vlăsceanu, M.C. Cotrut, " Use of CT data and Mimics software to solve a severe mandible trauma situation", 4th International Conference "Biomaterials, Tissue Engineering &Medical Devices" , 23-25 September, 2010, Sinaia, Romania

E. Brevete obţinute în întreaga activitate

1. 1. Constantinescu D M, Vlasceanu D, Badoi I, *Manufacture of mold and punches for stamping silicon-alloyed iron sheet, involves grinding hard alumina or silicon carbide particles, mixing formulation corresponding to layers, compacting, loading mixture in mold, and tempering,* RO133487-A2, 2019
2. Constantinescu D M, Vlasceanu D, Barladeanu M, Ionescu M, Radulescu M, Grigoriu D, Jugravu V, Irimia M, *Formulation for preparing composite material used in preparation of tool steel, comprises functional gradient processed from metallic steel powders of different chemical composition and different alloying level,* RO133153-A2, 2019

Data:19.09.2025 **.....** **Semnătura:**