

L I S T A lucrărilor elaborate

A. TEZA DE DOCTORAT

“Contribuții privind comportamentul mecanic al structurilor axial simetrice din materiale hiperelastice”

B. CĂRȚI PUBLICATE

1. **Vlăsceanu, D.**, Stochioiu, C., *“Noțiuni de mecanică și Rezistența materialelor”*, Editura Bren, 2017, ISBN 978-973-610-207-0
2. Jiga, G., Pastramă, Șt., **Vlăsceanu, D.**, ș.a., *“Teste grilă de Rezistența materialelor”*, Editura Tehnică INFO Chișinău, Republica Moldova, 2004
3. Jiga, G., **Vlăsceanu, D.**, Baciu F., *“Rezistența materialelor - Teste grilă pentru facultățile de profil nemecanic”*, Editura Printech, 2007, ISBN 978-973-718-681-2
4. Amza, C. G., Cicic, D. T., Rontescu, C. D., **Vlăsceanu, D.**, *“Calculatoare electronice și rețele de calculatoare”*, Editura Printech, 2014, ISBN 978-606-23-0257-3

C. ARTICOLE PUBLICATE (R, V)

1. **Vis** - Nuțu, E., Petrescu, H. A., **Vlăsceanu, D.**, Gruionu, L., *“Development of a finite element model for lung tumor displacements during breathing”*, Materials Today - Proceedings, Volume: 3, Issue: 4, pp. 1091-1096, DOI: 10.1016/j.matpr.2016.03.054, ISSN 2214-7853, WOS:000373068900036, 2016
2. **Ris** - Ormenișan, A., Târcolea, M., Suciuc, M., **Vlăsceanu, D.**, et al., *“FEA on Mastication Efforts During Osteosynthesis of a Fractured Mandible”*, Mat. Plast., Vol. **52**(3), pp. 373-375, 2015, ISSN 0025-5289, WOS:000362382300022, **IF=0.903**
3. **Ris** - Mitroi, E., **Vlăsceanu, D.**, *“Applicability of Self-reinforced Poly lactic Acid in Humeral Transcondylar Osteosynthesis”*, Mat. Plast., Vol. **51**(4), pp. 396-400, 2014, ISSN 0025-5289, WOS:000345883300011, **IF=0.903**
4. **Ris** - Stamate, A., **Vlăsceanu, D.**, Mărgărit, R., Luca, R., Caraiane, A., *“3D Analysis of the Accumulated Stresses in a Premolar Restored with a Composite Inlay versus a Ceramic Inlay”*, Mat. Plast., Vol. **51**(3), pp. 286-289, 2014, ISSN 0025-5289, WOS: 000344723900014, **IF=0.903**
5. **Vis** - Târcolea, M., **Vlăsceanu, D.**, Cotruț, M. C., Vrânceanu, M. D., Comăneanu, R. M., *“Mechanical Effects of Simulated Pressure and Temperature Conditions on Porcelain Dental Bridges”*, Advanced Materials and Structures V, Book Series: Solid State Phenomena, Volume: 216, pp. 157-162, DOI: 10.4028/www.scientific.net/SSP.216.157, 2014, ISBN:978-3-03835-212-9, ISSN: 1012-0394, WOS:000347924100027
6. **Vis** - Comăneanu, R. M., Barbu, H. M., **Vlăsceanu, D.**, Târcolea, M., *“Numerical Analyses of Stresses and Strains in Bone - Implant Assembly”*, Key Engineering Materials, Volume: 583, pp. 169-174, DOI: 10.4028/www.scientific.net/KEM.583.169, 2014, ISSN 1013-9826, WOS:000336552600028

7. **Vis** - Dinu, G., Hadăr, A., **Vlăsceanu, D.**, “*A determination of the displacements of the contact surface*”, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, Volume: 20, pp. 733-734, 2009, WOS:000282335600367
8. **Vis** - Atanasiu, C., **Vlăsceanu, D.**, Tripa, P., Roșca, V., Proca, V., “*The experimental investigations of residual stresses in tube with thick walls*”, Annals of Daaam for 2009 & Proceedings of the 20th International Daaam Symposium, Volume: 20, pp. 1163-1164, 2009, WOS:000282335600582
9. **Vis** - Atanasiu, C., **Vlăsceanu, D.**, Baci, F., “*The experimental stress investigations in bars of the draw installation of pipes*”, Annals of Daaam for 2009 & Proceedings of the 20th International Daaam Symposium, Volume: 20, pp. 901-902, 2009, WOS: 000282335600451
10. **Vis** - **Vlăsceanu, D.**, Petrescu, I., Comăneanu, R. M., Târcolea, M., Cotruț, M. C., “*Analysis of a dental implant using finite element method*”, Annals of Daaam for 2009 & Proceedings of the 20th International Daaam Symposium, Volume: 20, pp. 1277-1278, 2009, WOS:000282335600639
11. **Vis** - Petrescu, H. A., Hadăr, A., **Vlăsceanu, D.**, “*Comparative analyses between a nonlinear response composite structure and a linear response structure*”, Annals of Daaam for 2009 & Proceedings of the 20th International Daaam Symposium, Volume: 20, pp. 1385-1386, 2009, WOS:000282335600693
12. **Vis** - Petrescu, H. A., Rudy, M., **Vlăsceanu, D.**, Hadăr, A., Părăușanu, I., 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-Zagreb, Volume: 43, pp. 201-209, Published: 2015, ISSN 1848-4425, WOS 000373450700017
13. **Vis** - Comăneanu, R. M., Ghergic, D.L., Smatrea, O., Miculescu, F., **Vlăsceanu, D.**, Târcolea, M., “*Microscopic (SEM, EDX) investigations on a new material/implant for dental use*”, Annals of Daaam for 2009 & Proceedings of the 20th International Daaam Symposium, Volume: 20, pp. 1597-1598, 2009, WOS:000282335600799
14. **Vis** - Atanasiu, C., Baci, F., **Vlăsceanu, D.**, Drăghici, S., “*The stress distribution in a filleted shell*”, Czech Technical Univ Prague, Zikova 4, Prague 6 166 35, Czech Republic, 25th Danubia - Adria symposium on advances in experimental mechanics, Published: 2008, pp. 3-4, ISBN:978-80-01-04162-8, WOS:000292693200002
15. **Vis** - Dinu, G., Baci, F., **Vlăsceanu, D.**, Drăghici, S., “*Study The Strength And Stiffness Of A Boring And Milling Machine Bed*”, Annals of Daaam for 2008 & Proceedings of the 19th International Daaam Symposium, pp. 381-382, 2008, ISSN: 1726-9679, WOS: 000262860100190
16. **Vis** - Jiga, G., Grigoriu, M., Ciucă, I., **Vlăsceanu, D.**, “*Consideration on climate energy efficiency impact*”, Annals of Daaam for 2008 & Proceedings of the 19th International Daaam Symposium, pp. 683-684, 2008, ISSN: 1726-9679, WOS: 000262860100341
17. **Vis** - Jiga, G., **Vlăsceanu, D.**, Nuțu, E., Ghiban, B., Vișan, D., “*Design and experimental analysis for a new configuration of a safety barrier destined to absorb the impact energy*”, Annals of Daaam for 2008 & Proceedings of the 19th International Daaam Symposium: Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems And Solutions, Book Series: Annals of DAAAM and Proceedings, pp. 685-686, Published: 2008, ISSN: 1726-9679, WOS:000262860100342
18. **Vis** - **Vlăsceanu, D.**, Cotruț, C., Târcolea, M., Baci, F., Nicodim, M., “*Investigation Of The Hard Films Deposited By Pvd-Magnetron Sputtering On The Cutting Tools*”, Annals of Daaam for 2008 & Proceedings of the 19th International Daaam Symposium, Book Series: Annals of DAAAM and Proceedings, pp. 1487-1488, Published: 2008, ISSN: 1726-9679, WOS:000262860100743
19. **Vis** - Nicodim, M., **Vlăsceanu, D.**, Baci, F., “*Design of a safety mechanism for machine tools*”, Annals of Daaam for 2008 & Proceedings of the 19th International

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20. **Vis** - Jiga, G., **Vlăsceanu, D.**, Baciuc, F., “*Analysis of a roll over protective structure using the finite element method*”, Annals of Daaam for 2007 & Proceedings of the 18th International Daaam Symposium: Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility, And Ethics Of Engineers, pp. 359-360, Published: 2007, WOS 000252067400180
 21. **Ris** - Hadăr, A., Bordeasă, I., Mitelea, I., **Vlăsceanu, D.**, “*Experimental validation of a theoretical model used for analysis of the laminate composite structures*”, Mat. Plast., Vol. **43**(1), pp. 70-73, Published: 2006, ISSN 0025-5289, WOS:000236960700017, **IF=0.903**

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22. **Vis** - Baciuc, F., **Vlăsceanu, D.**, Târcolea, M., Slăvescu, D., Târcolea, R. M., Cotruț, R. Bololoi, C.M., “*Behavior of mandible-implant interface under stress and temperature*”, European cells and Materials, Vol. 16, Suppl. 1, 2008, ISSN 1473-2262
23. **Vi** - Bădoi I., Constantinescu D. M., **Vlăsceanu D.**, “*Microstructure and mechanical properties in industrial applications processes for FGM /FGCM materials*”, 33rd Danubia - Adria Symposium on Advances in Experimental Mechanics, 2016, pp. 104-105, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009959528&partnerID=40&md5=159c51a6473036b3a9e1db84507c8e19>
24. **Vis** - Jiga, G., Stamin, Ș., Dinu, G., **Vlăsceanu, D.**, Popovici, D., “*Material and shape crash-box influence on the evaluation of the impact energy absorption capacity during a vehicle collision*”, Ciencia e Tecnologia dos Materiais, 2016, Vol. 28, Issue 1, pp. 67-72, ISSN 8708312, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990890435&doi=10.1016%2fj.ctmat.2016.03.001&partnerID=40&md5=81f7d861ce0bbd2d4c35bc295e58697b>
25. **Vis** - Petrescu, H. A., **Vlăsceanu, D.**, Pastramă, S. D., Gruionu, L., “*Numerical analysis for determining the displacements of a lung tumor*”, Key Engineering Materials, 2014, Vol. 638, pp. 177-182, ISSN 10139826, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930334038&doi=10.4028%2fwww.scientific.net%2fKEM.638.177&partnerID=40&md5=825ed3eb89142b1d015d2bef0ae2c42b>
26. **Vis** - Petrescu, H. A., **Vlăsceanu, D.**, Stamate, A., Bololoi, R., Hanganu, S.C., “*Finite element analyses comparison between normal teeth and prosthetic teeth*”, Key Engineering Materials, 2014, Vol. 638, pp. 155-160, ISSN 10139826, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930358007&doi=10.4028%2fwww.scientific.net%2fKEM.638.155&partnerID=40&md5=30c6256e1916d99b9ce6f0f6eb24e567>
27. **Vis** - **Vlăsceanu, D.**, Marin, M., Petrescu, H. A., Preoteasa, E., Gheorghiu, H., “*Investigation of the mechanical behavior of mandibular overdentures using finite element method*”, Key Engineering Materials, 2014, Vol. 638, pp. 165-170, ISSN 10139826, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930324337&doi=10.4028%2fwww.scientific.net%2fKEM.638.165&partnerID=40&md5=b807fdcc89b5c342d1eab99ac94881e4>
28. **Vi** - Baciuc, F., Pastramă, S. D., Gheorghiu, H., **Vlăsceanu, D.**, “*Experimental determination of mechanical characteristics of steel for numerical simulation of the welding process*”, 29th DANUBIA - ADRIA Symposium on Advances in Experimental Mechanics, DAS 2012, pp. 118-119, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006975583&partnerID=40&md5=5844acd963b841eaa1228c1114838301>
29. **Vi** - Nica, V. M., **Vlăsceanu D.**, Gheorghiu, H., “*FEM analysis of two dental screw implants positions for improving osteointegration*”, 23rd DAAAM International

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30. **Vis** - 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, pp. 135-144, ISSN 14542358, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-80051924102&partnerID=40&md5=03b7b6a5a00b2a0878ab95deb12d871b>
 31. **Vi** - **Vlăsceanu, D.**, Gheorghiu, H., Pastramă, S. D., “*Experimental determination of the Mooney-Rivlin parameters for hyperelastic materials like rubber*”, 28th Danubia - Adria - Symposium on Advances in Experimental Mechanics, DAS 2011, 2011, pp. 281-282, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007007383&partnerID=40&md5=148b6927a166e7a8d0c8b95277a03906>
 32. **Vi** - Babia, A., Gheorghiu, H., **Vlăsceanu, D.**, “*Mechanical behavior of the mandible-strut assembly with one and two plates*”, 11th International Conference on Management of Innovative Technologies 2011, Fiesa, Slovenia
 33. **Vi** - Târcolea, M., Comăneanu, R. M., **Vlăsceanu, D.**, Cotrut, M. C., “*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, România
 34. **Vi** - Târcolea, M., **Vlăsceanu, D.**, Comăneanu, R. M., Cotruț, M. C., “*Use of CT data and Mimics software for temporo-mandibular joint prosthesis positioning and customization*”, 4th International Conference “Biomaterials, Tissue Engineering & Medical Devices”, 23-25 September, 2010, Sinaia, România
 35. **Vi** - **Vlăsceanu, D.**, Tudor, D., Hadăr, A., Gheorghiu, H., “*Static analysis using finite element method a mandible-strut plate assembly*”, 4th International Conference “Biomaterials, Tissue Engineering & Medical Devices”, 23-25 September, 2010, Sinaia, România
 36. **Vis** - Tudor, D., **Vlăsceanu, D.**, Dinu, G., Petrescu, H. A., “*Analysis and optimization of junction structures made from layered composites using FEA*”, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp. 0098
 37. **Vis** - Părăușanu, I., Petre, C., Gheorghiu, H., **Vlăsceanu, D.**, “*The Oil Pressure Law in Journal Bearings Due to of the Shaft Conical Motion*”, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, ISBN 978-3-901509-73-5, ISSN 1726-9679, pp. 0097
 38. **Ris** - Rădoiu, B., **Vlăsceanu, D.**, Peride, N., “*Parapets plated with composite rubber - a comparative study of behaviour at shock*”, Applied Mathematics and Mechanics, nr. 53, vol. II, 2010, Cluj-Napoca, România
 39. **Rns** - Atanasiu, C., **Vlăsceanu, D.**, Baci, F., “*The experimental stress investigations by the strain gauge technique in the draw of bars and pipe installation*”, The annals of “Dunărea de jos” University of Galați, Fascicle XIV Mechanical engineering, ISSN 1224-5615, pp. 5-8
 40. **Vn** - Atanasiu, C., **Vlăsceanu, D.**, Paraoanu, N., Proca, V. “*Eforturi și deplasări în capete de bielă*”, REZMAT XV 2008, ISSN 1844-6620, pp. 85-88
 41. **Vn** - Atanasiu, C., **Vlăsceanu, D.**, Dobre, A., Iancu, D.C., “*Deplasări într-un sistem de bare flexibil*”, REZMAT XV 2008, ISSN 1844-6620, pp. 89-92
 42. **Vi** - Grozea, M-A., **Vlăsceanu, D.**, Hadăr, A., “*Methodology regarding numerical analysis of composite material junctions*”, The 2nd International Conference on Polymers Processing in Engineering, pp. 157-164, ISSN 2066-9984, PPE 2009, Galați, România, 22-23 Octombrie 2009

43. **Vi** - Petrescu, H. A., **Vlăsceanu, D.**, Jiga, G., Hadăr, A., *“The tensile residual stress evaluation of two different composite materials ballistically impacted”*, The 2nd International Conference on Polymers Processing in Engineering, pp.118-124, ISSN 2066-9984, PPE 2009, Galați, România, 22-23 Octombrie 2009
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45. **Vi** - Petrescu, H. A., Grozea, M-A., **D. Vlăsceanu**, A. Hadăr, *“Modeling and Comparative Analyses of a Composite Layered Junction”*, ICSAAM 2009 Conference in Tarbes, Franța, pp.75, ISBN 978-2-9534804-0-5, 7-10 Septembrie, 2009
46. **Vi** - Atanasiu, C., Baci, Fl., **Vlăsceanu, D.**, Drăghici, S., *“The stress distribution in a filleted shell”*, 25th Danubia - Adria symposium on Advances in experimental Mechanics, Ceske Budejovice, Czech Republic, september 24-27, 2008, pp. 3-4
47. **Vi** - Bratu P., Jiga G., **Vlăsceanu D.**, *“Metode de analiză a performanțelor dinamice ale sistemelor structurale compozite pentru parapetele de protecție ce echipează căile rutiere”*, Zilele Academice ASTR, 28-30 noiembrie 2007
48. **Vi** - Jiga G., Hadăr A., **Vlăsceanu D.**, Radu Gh., *“Post-critical analysis of laminate reinforced materials”*, The International Conference on Structural Analysis of Advanced Materials, Patras, Grecia, 2007
49. **Vi** - Bădescu N., Jiga G., **Vlăsceanu D.**, *“Analytical and numerical studies destined for the design of a safety barrear as road restraint system”*, The International Conference on Structural Analysis of Advanced Materials, Patras, Grecia, 2007
50. **Vi** - Baci F., **Vlăsceanu D.**, Târcolea M., Jiga G., Slăvescu D., Târcolea R. M., *“Study of mandible-implant interface behavior under stresses”*, The International Conference on Structural Analysis of Advanced Materials, Patras, Grecia, 2007
51. **Vi** - Jiga G., Baci F., **Vlăsceanu D.**, *“Effects of the stacking sequence upon the interlaminar stresses in a general multidirectional laminate”*, The International Conference on Structural Analysis of Advanced Materials, Patras, Grecia, 2007
52. **Vi** - Jiga G., **Vlăsceanu D.**, Baci F., *“Considerations on the tensile residual stress evaluation of two different composites materials ballistically impacted”*, The 24th Danubia - Adria Symposium on Experimental Methods in Solid Mechanics, Sibiu, Romania, 2007
53. **Vi** - Baci F., **Vlăsceanu D.**, Târcolea M., Cotruț C. M., Slăvescu D., *“Studiul stării de tensiune la interfața implant-mandibulă”*, Simpozionul Național de Biomateriale, Cluj-Napoca, 2007
54. **Vi** - Miculescu M., Târcolea M., Coșmeleață G., Baci F., **Vlăsceanu D.**, Târcolea R. M., *“Transferul termic la interfața implant-mandibulă”*, Simpozionul Național de Biomateriale, Cluj-Napoca, 2007
55. **Vi** - Gheorghiu H., Baci F., **Vlăsceanu D.**, *“Nonlinearity in curved tube loaded with internal pressure”*, The 9th International conference on Management of Innovative Technologies, Slovenia 2007
56. **Vi** - Gheorghiu H., **Vlăsceanu D.**, Baci F., *“Programming Calculation of Optimization a Structure”*, The 8th International Conference on Management of Inovative Technologies MIT 2005
57. **Vi** - **Vlăsceanu D.**, Jiga G., Baci F., *“Hard metal growth life of TiN coated cutting tools”*, The 8th International Conference on Management of Inovative Technologies MIT 2005
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59. **Vi** - Constantinescu D., Sandu, M., Constantin, N., Găvan, M., **Vlăsceanu, D.**, Bocăneală, B., *“Procedures to establish mechanical properties of laminated textile composites with three-and four-pointflexure tests”*, The 21st Danubia - Adria

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60. **Vn** - Sandu, M., Baci, Fl., **Vlăsceanu, D.**, “*Force/pressure strain gauge transducer with optimized elastic element*”, Al X-lea Simpozion Internațional de Tensometrie și Incercări de materiale, Sibiu, 22-23 octombrie 2004
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Semnătura