

List of works published by Assoc.Prof.Marius Botiș during the period 2001-2023

List of books published by year:

2001

1.Curtu, I., Cerbu, C., Ciofoaia, V., **Botis, M.**, Kuchar, P., Repanovici, A., – Rezistența materialelor. Probleme, vol.1. Editura Infomarket Brașov, 2001.ISBN 973-8204-16-X, 304 pagini.

2002

2.Curtu, I., Kuchar, P., Ciofoaia, V., Repanovici, A., Cerbu, C., **Botis, M.**, –Rezistența materialelor. Probleme, vol.2 .Editura Editura Infomarket Brașov, 2002, ISBN 973-8204-40-2 ,554 pagini.

2003

3.Curtu, I., Ciofoaia, V., Kuchar, P., Cerbu, C., **Botis, M.**, Repanovici, A., – Rezistența materialelor. Probleme, vol.3. Editura Editura Infomarket Brașov, 2003 ISBN 973-8204-51-8 ,564 pagini..

2005

4.**Botis, M.**, Metoda elementelor finite. Editura Napoca-Star-2005. ISBN 973-635-443-1, 312 pagini.

2006

5.**Botis, M.**, Comănici M. Metode numerice pentru ingineri . Editura Napoca-Star-2006. ISBN 978-647-366-X,152 pagini.

2009

6.**Botis, M.**, Dinamica structurilor și inginerie seismică. Editura Napoca-Star-2009. ISBN 978-ISBN 978-973-647-648-8, 156 pagini.

2012

7.**Botis, M.**, Aplicații în analiza dinamică a structurilor vol.1. Editura Napoca-Star-2012. ISBN 978-973-647-943-4, 134pagini.

2013

8.**Botis, M.**, Aplicații în analiza dinamică a structurilor vol.2. Editura Napoca-Star-2013. ISBN 978-606-690-047-8, 202pagini.

2014

9.**Botis, M.**, Aplicații în analiza dinamică a structurilor vol.3. Editura Napoca-Star-2014. ISBN 978-606-690-176-5, 113pagini.

2019

10.**Botis, M.**, Modelarea și simularea numerică a caracteristicilor masice pentru corpuri cu configurație complexă în Matlab. Editura Napoca-Star-2019. ISBN 978-606-690-998-3, 67 pagini.

List of scientific articles ISI Journal Core, ISI Proceedings, and articles published at national and international conferences not indexed published by year:

1.Articles ISI Journal Core

2020

1.Botiș M.,Cerbu C., (2020). A Method for Reducing of the Overall Torsion for Reinforced Concrete Multi-Storey Irregular Structures. Applied Sciences Journal, Appl. Sci. 2020, 10(16), 5555; <https://doi.org/10.3390/app10165555>. (FI =2,474-Q2),WOS.

2.Cerbu C.,Wang H., **Botiș M.,** Huang Z.,Pleșcan C(2020) Temperature effects on the mechanical properties of hybrid composites reinforced with vegetable and glass fibers. Journal Mechanics of Materials Elsevier Volume 149. <https://doi.org/10.1016/j.mechmat.2020.103538>. (FI=3,266-Q1),WOS.

2021

3.Pleșcan C., Pleșcan, E., Stanciu M., **Botiș M.,**Taus D., (2021). Sensitivity Analysis of Rigid Pavement Design Based on Semi-Empirical Methods: Romanian Case Study. Symmetry Volume 13 (162) Journal .<https://doi.org/10.3390/sym13020168>. (FI =2,713-Q3),WOS.

4.Cerbu C., Ursache S., **Botiș M.,**Hadăr A., (2021). Simulation of the Hybrid Carbon-Aramid Composite Materials Based on Mechanical Characterization by Digital Image Correlation Method. Polymers-Journal Volume 13(23).<https://doi.org/10.3390/polym13234184>.(FI=4,329-Q1),WOS.

2022

5.Botiș M.,Cerbu C.,Imre L.,(2022).Computer-aided design of a tensegrity structure. Structures- Jurnal Elsevier. Volume 38.<https://doi.org/10.1016/j.istruc.2022.01.084>. (FI= 4,01-Q1),WOS.

6.Conțiu M.,Ghiocel M., Crețu D., **Botis M.,** (2022). A Step-by-Step Probabilistic Seismic Soil–Structure Interaction Analysis with Ground Motion Incoherency for a Bridge Pier on Bored Pile Foundations. Applied Sciences Journal 12(4), 1828 <https://doi.org/10.3390/app12041828>. (FI=2,838-Q2),WOS.

7. Botiș M., Cerbu C.,(2022). Design Solutions for Slender Bars with Variable Cross-Sections to Increase the Critical Buckling Force. Materials 15(17). <https://doi.org/10.3390/ma15176094>.(FI=3,748-Q1),WOS.

2023

8.Botiș M., Imre L., Conțiu M.,(2023). Numerical method of increasing the critical buckling load for straight beam-type elements with variable cross-sections. Applied Sciences Journal 23, 1460. <https://doi.org/10.3390/app13031460>.(FI=2.838-Q2),WOS. Publicat în curs de indexare.

2. Articles ISI Proceedings

2009

1. **Botis, M.**, Ungureanu, V., Ciofoaia, V., (2009) Experimental Study of Stress and Strain States for Circular Plane-Plate with Large Deflections, Sustainability in science engineering, Volume II, Proceedings of the 11th WSEAS International Conference on Sustainability in Science Engineering (SSE '09), Timisoara, Romania, May 27 – 29. WOS.
2. Dosa, A., Ungureanu, V., **Botis, M.**, Herman, A. (2009) A 3D Simplified Model for Non-Linear Stability Analysis of the Continuous Welded Rail Track, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, pp 655.
3. Ungureanu, V., Dosa, A., **Botis, M.**, Comanici, M., (2009). Probabilistic Analysis of Continuous Welded Rail Stability, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, ISBN 978-3- 901509-70-4, ISSN 1726-9679, pp 655. WOS.

2017

4. Cerbu, C., **Botiș, M.**, (2017). Numerical Modeling of the Flax / Glass / Epoxy Hybrid Composite Materials in Bending. The 10th International Conference Inter-Eng Interdisciplinarity in Engineering pag 308-315. <https://doi.org/10.1016/j.proeng.2017.02.394>. WOS.

2018

5. **Botiș M.**, Cerbu C., Shi H., (2018) Study on the reduction of the general / overall torsion on multi – story, rectangular, reinforced concrete structures. IOP Conf. Series: Materials Science and Engineering 399 (2018) 012005. [doi:10.1088/1757-899X/399/1/012005](https://doi.org/10.1088/1757-899X/399/1/012005). WOS.

3. Articles BDI- indexed

2011

1. C. Harbic , C. Cismas, V. Dubasaru, **M. Botis** (2011). Aspects regarding reduction of general torsion in the structures of the Brașov campus. Bulletin of the Transilvania University of Brașov Series I: Engineering Sciences • Vol. 5 (54) No. 2 – 2011, ISSN 2065-2119, pag.153-160. http://webbut.unitbv.ro/BU2011/Series%20I/Contents_CE.html.

2012

2. **Botis M.**, Harbic C., (2012) A brief history upon base isolating systems. Bulletin of the Transilvania University of Brașov • Vol. 5 (54) No.1 /2012 Series I: Engineering Sciences ISSN2065-2119, pag.93-98. http://webbut.unitbv.ro/BU2012/Series%20I/Contents_I_CE.html.

2014

3. **Botis, M.**, (2014) The Behaviour of SDOF Base Isolated Structures. Bulletin of Transilvania University of Brasov-vol7 (56)No.1-2014 Series I–Engineering Sciences ISSN2065-2119, pag.55-62. http://webbut2.unitbv.ro/BU2014/Series%20I/Contents_I_CE.html.

2020

4. **Botiș, M.**, Dosa, A. (2020). Comparative study statically determined trusses with trapezoidal and parabolic shape with large span. IOP Conf. Series: Materials Science and Engineering 789 012006. <https://iopscience.iop.org/article/10.1088/1757-899X/789/1/012006>. DOI [10.1088/1757-899X/789/1/012006](https://doi.org/10.1088/1757-899X/789/1/012006).

2022

5. Botiș, M., Plescan, C. (2022) .Increase the Load of Loss of Stability for the Pillars of Large-Opening Halls. The annals of “Dunarea de jos” University of Galati Fascicle IX. Metallurgy and Materials Science, No. 3 - 2022, ISSN 2668-4748; e-ISSN 2668-4756. : <https://doi.org/10.35219/mms.2022.3.06>.

6. Botiș, M., Plescan, C. (2022) The Probabilistic Method for Determination the Inertia Characteristics of 3D Bodies with Monte Carlo Algorithms. The annals of “Dunarea de jos” University of Galati Fascicle IX. Metallurgy and Materials Science, No. 3 - 2022, ISSN 2668-4748; e-ISSN 2668-4756. : <https://doi.org/10.35219/mms.2022.3.07>.

7. Botiș, M., Pleșcan, C. (2022) Determination of the Optimal Thickness of the Floors of Multi-storey Concrete Structures with Modal Analysis. International Conference on Interdisciplinarity in Engineering, INTER-ENG Târgu Mureș October October 2022. https://doi.org/10.1007/978-3-031-22375-4_20.

8. Botiș, M., Plescan, C. (2022). Matlab Program for Determining the Inertia Characteristics of Flat Surfaces with Monte Carlo Algorithms. The annals of “Dunarea de jos” University of Galati Fascicle IX. Metallurgy and Materials Science, No. 2 - 2022, ISSN 2668-4748; e-ISSN 2668-4756. <https://doi.org/10.35219/mms.2022.2.04>.

9. Botiș, M., Plescan, C. (2022). Consolidation of Central Columns of Civil Multistory Structures to Increase the Critical Buckling Force. The annals of “Dunarea de jos” University of Galati Fascicle IX. Metallurgy and Materials Science, No. 4 - 2022, ISSN 2668-4748; e-ISSN 2668-4756. <https://doi.org/10.35219/mms.2022.4.01>.

4. Non-indexed national and international conference papers

2002

1. Botiș M., Curtu I., Rosca C., Cerbu C., ESO algorithm in optimization continuous beam with multiple spans. International Scientific Conference Cibv 2002, November Brașov. ISBN 973-635-082-7. <http://aspectk.unitbv.ro/jspui/handle/123456789/1741>.

2004

2. Botiș M., Curtu I., Repanovici A., Aspecte privind calculul coeficientilor de corectie la forfecare pentru modelul Reissner-Mindlin la placile compozite utilizate in constructii. International Scientific Conference Cibv 2004, November Brașov 2008. ISBN 973-635-409-1. <http://193.254.231.99:8080/jspui/handle/123456789/1737>.

2005

3. Boieriu C., Curtu I., **Botiș M.,** Lica D., Mechanical behaviour of finger joints and edge joints analysed by bending fracture strength. 1st International Conference “Computational Mechanics and Virtual Engineering ” COMEC 2005 20 – 22 October 2005, Brasov, Romania. ISBN 973 - 635 - 593 – 4. <http://aspectk.unitbv.ro/jspui/handle/123456789/980>.

2008

4. Botiș, M., Modelarea dinamica a stalpilor eolieni cu absorbitori de vibratii. International Scientific Conference Cibv 2008, 21 – 22 november Brașov 2008. http://aspectk.unitbv.ro/jspui/bitstream/123456789/1690/1/botiș_marius.pdf.

2011

5. C. Cismas., M. Botiș., V. Ciofoaia. (2011). The laboratory testing of “fiber reinforced concrete . “COMEC 2011” The 4th International Conference on Computational Mechanics and Virtual

Engineering.<http://aspeckt.unitbv.ro/jspui/handle/123456789/1299>

6. Botis M., Curtu I., Stanciu M., Floroiu M., Coman M., Terciu O., Researches regarding FEM analysis of the stress and strain state from the structure of wooden churches. CIMAD 11 – 1^o Congresso Ibero-Latino Americano da Madeira na Construção, Coimbra, Portugal. <http://193.254.231.99:8080/jspui/handle/123456789/1740>

2012

7. Botis M., Matlab program for the numerical solution of duhamel convolution integral. Bulletin of the Transilvania University of Braşov . Vol. 5 (54) – 2012. Series 1: Special Issue No. 1. <http://193.254.231.99:8080/jspui/handle/123456789/1635>.

2013

8. Siko, L. Botis, M., (2013) Arched hollow section trusses in long span structures. Bulletin of Transilvania University of Brasov-vol.6 (55)No.1-2013 Series I –Engineering Sciences. http://webbut.unitbv.ro/BU2013/Series%20I/Contents_I_CE.html.

9. Dosa A., Botiş M., Imre I., (2018) A study of a tensegrity structure for a cylindrical roof. The 6th Contemporary achievements in civil engineering 20 April 2018. Subotica, Serbia. doi: [10.14415/konferencijaGFS2018.005](https://doi.org/10.14415/konferencijaGFS2018.005).

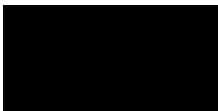
10. Botiş M., Imre I., (2019) Comparative analysis of three solutions for torsion reduction in case of flexible tube concrete structures. The 7th Contemporary achievements in civil engineering 23-24 April 2019. Subotica, Serbia. doi: [10.14415/konferencijaGFS2019.023](https://doi.org/10.14415/konferencijaGFS2019.023).

5. Research projects that finance research activities - director (for the coordinating institution)

1. Exploratory research project IDEI CNCSIS 2009-2011 - cod 726 - with the title: **Modeling, optimization and testing of wind towers with dynamic absorbers to reduce wind and seismic lateral actions and material fatigue** (contract director for Transilvania Braşov University).

2. Scientific research contract with third parties Nr.18599/21.12.2018 with the title: **Static analysis of a structure with geometric stiffness** (contract director for Transilvania Braşov University).

Întocmit,



Assoc.Prof. **Botiş Marius Florin**

31.01.2023