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**Title: Contributions to the mechanics of polymer matrix composite materials**

**Domain: Mechanical Engineering**

## PUBLICATIONS LIST

### RELEVANT PAPERS

1. **Teodorescu-Drăghicescu, H.**, Vlase, S. – Homogenization and Averaging Methods to Predict Elastic Properties of Pre-Impregnated Composite Materials. Computational Materials Science (COMP MATER SCI), Vol. 50, Issue 4, February 2011, ISSN: 0927-0256, Elsevier, p. 1310-1314, Proceedings of the 19th International Workshop on Computational Mechanics of Materials - IWCMM 19, Edited by Eduard-Marius Craciun, Nicolae Peride and Siegfried Schmauder. FI=1,879 <http://www.sciencedirect.com/science/article/pii/S0927025610002533>
2. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Serbina, L., Calin, M.R. – Hysteresis Effect in a Three-Phase Polymer Matrix Composite Subjected to Static Cyclic Loadings. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 3, March 2011, INOE Publishing House, p. 273-277, ISSN: 1842-6573. FI=0,449  
<http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=60>
3. Vlase, S. **Teodorescu-Drăghicescu, H.**, Motoc, D.L., Scutaru, M.L., Serbina, L., Călin, M.R. – Behavior of Multiphase Fiber-Reinforced Polymers Under Short Time Cyclic Loading. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 4, April 2011, INOE Publishing House, p. 419-423, ISSN: 1842-6573. FI=0,449  
<http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=61>
4. Vlase, S. **Teodorescu-Drăghicescu, H.**, Călin, M.R., Serbina, L. – Simulation of the Elastic Properties of Some Fibre-Reinforced Composite Laminates Under Off-Axis Loading System. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 4, April 2011, INOE Publishing House, p. 424-429, ISSN: 1842-6573. FI=0,449  
<http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=61>
5. **Teodorescu-Drăghicescu, H.**, Stanciu, A., Vlase, S., Scutaru, L., Călin M.R., Serbina, L. - Finite Element Method Analysis Of Some Fibre-Reinforced Composite Laminates, Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 7, July 2011, INOE Publishing House, p. 782-785, ISSN: 1842-6573. FI=0,449  
<http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=64>
6. Stanciu, A., **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, M.L., Călin, M.R. - Mechanical Behavior of CSM450 and RT800 Laminates Subjected to Four-Point Bend Tests, Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 6, Issue 3-4, March-April 2012, INOE Publishing House, p. 495-497, ISSN: 1842-6573. FI=0,449  
<http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=71>
7. Vlase, S., **Teodorescu-Drăghicescu, H.**, Călin, M.R., Scutaru, M.L. - Advanced Polylyte composite laminate material behavior to tensile stress on weft direction, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 14, No. 7-8, July-August 2012, INOE Publishing House, p. 658-663, ISSN: 1454-4164. FI=0,563  
<http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3073&catid=72>
8. **H. Teodorescu-Drăghicescu**, M. L. Scutaru, D. Rosu, M. R. Calin, P. Grigore - New Advanced Sandwich Composite with twill weave carbon and EPS, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 15, No. 3-4, March-April 2013, INOE Publishing House, p. 199-203, ISSN: 1454-4164. FI=0,563

- <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3177&catid=76>
9. S. Vlase, R. Purcarea, **H. Teodorescu-Draghicescu**, M.R. Calin, I. Szava, M. Mihalcica - Behavior of a new Heliopol/Stratimat300 composite laminate, *Optoelectronics And Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT)*, Vol. 7, No. 7-8, July-August 2013, INOE Publishing House, p. 569-572, ISSN: 1454-4164. FI=0,449  
<http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2132&catid=79>
  10. T. Heitz, **H. Teodorescu-Draghicescu**, S. Lache, A. Chiru, M.R. Calin – Advanced T700/XB3585 UD carbon fibers-reinforced composite, *Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M)*, Vol. 16, No. 5-6, May-June 2014, INOE Publishing House, p. 568-573, ISSN: 1454-4164. FI=0,563  
<http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3474&catid=84>

### PhD THESIS

1. Contributions to the increase of loading capability of tubes made from fibers-reinforced polymer matrix composites by introducing supplementary internal stresses. PhD leader: Prof.dr.eng. Ioan GOIA, Transilvania University of Brasov, 2001. PhD domain: Mechanical Engineering

### PATENTS

1. Scutaru M.L., Corneliu Cofaru, **Teodorescu-Draghicescu Horatiu**, Baba Marius, Dogaru Florin - Material compozit hibrid carbon-câneșă și procedeu de obșinere al acestuia cu aplicație în industria auto și constructoare de mașini - Patent abstract published in BOPI 4/2104 & Espacenet 2014
2. Scutaru M.L., Corneliu Cofaru, **Teodorescu-Draghicescu Horatiu**, Baba Marius, Dogaru Florin - Material compozit hibrid sticlă – țesătură din câneșă și procedeu de obșinere al acestuia cu aplicație în industria auto și constructoare de mașini - Patent abstract published in BOPI 8/2104 & Espacenet 2014

### BOOKS / BOOK CHAPTERS

1. **H. Teodorescu**, *Fundamentele și mecanica materialelor compozite polimerice*. Editura Universității Transilvania, Brașov, 2007, ISBN 978-635-878-4.
2. S. Vlase, I. Goia, **H. Teodorescu**, A. Modrea, L. Scutaru, *Materiale compozite. Metode de calcul*. Editura Universității Transilvania, Brașov, 2007, ISBN 978-973-635-890-6.
3. Goia, I., Vlase, S., Tierenan, M., Dimitriu, St., **Teodorescu, H.**, Pop, O., Plămădeală, R., *Culegere de probleme de rezistența materialelor*. Ed. Lux Libris, 2007, ISBN 978-973-9458-92-4. (cap. 4 – Mecanica materialelor compozite).
4. Vlase, S., **Teodorescu, H.**, Purcarea, R., Modrea, A., *Mecanica Materialelor Compozite Armate cu Fibre*. Editura Infomarket, 2008, ISBN 978-973-8204-98-0.
5. M.L. Scutaru, **H. Teodorescu-Draghicescu**, S. Vlase, *Mecanică Tehnică*. Editura Infomarket, 2009, ISBN 978-973-1747-15-6.
6. M.L. Scutaru, A. Chiru, S. Vlase, C. Cofaru, **H. Teodorescu-Draghicescu**, *Materiale plastice și compozite în ingineria autovehiculelor*, Editura MATRIX ROM, București, 2013, ISBN 978-606-25-0023-8
7. **H. Teodorescu-Draghicescu**, A. Modrea, *Mecanica materialelor compozite*, Editura Universității Transilvania din Brașov, 2013, ISBN 978-606-19-0300-9
8. **H. Teodorescu-Draghicescu**, *Mecanică Experimentală*. Editura Universității Transilvania din Brașov, 2015, ISBN 978-606-19-0528-7.

### JOURNAL ARTICLES

1. **Teodorescu-Draghicescu, H.**, Vlase, S. – Homogenization and Averaging Methods to Predict Elastic Properties of Pre-Impregnated Composite Materials. *Computational Materials Science (COMP MATER SCI)*, Vol. 50, Issue 4, February 2011, ISSN: 0927-

- 0256, Elsevier, p. 1310-1314, Proceedings of the 19th International Workshop on Computational Mechanics of Materials - IWCMM 19, Edited by Eduard-Marius Craciun, Niculae Peride and Siegfried Schmauder. FI=1,879  
<http://www.sciencedirect.com/science/article/pii/S0927025610002533>
2. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Serbina, L., Calin, M.R. – Hysteresis Effect in a Three-Phase Polymer Matrix Composite Subjected to Static Cyclic Loadings. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 3, March 2011, INOE Publishing House, p. 273-277, ISSN: 1842-6573. FI=0,449. URL lista lucrari: <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=60>
  3. Vlase, S. **Teodorescu-Drăghicescu, H.**, Motoc, D.L., Scutaru, M.L., Serbina, L., Călin, M.R. – Behavior of Multiphase Fiber-Reinforced Polymers Under Short Time Cyclic Loading. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 4, April 2011, INOE Publishing House, p. 419-423, ISSN: 1842-6573. FI=0,449. URL lista lucrari: <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=61>
  4. Vlase, S. **Teodorescu-Drăghicescu, H.**, Călin, M.R., Serbina, L. – Simulation of the Elastic Properties of Some Fibre-Reinforced Composite Laminates Under Off-Axis Loading System. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 4, April 2011, INOE Publishing House, p. 424-429, ISSN: 1842-6573. FI=0,449. URL lista lucrari: <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=61>
  5. **Teodorescu-Drăghicescu, H.**, Stanciu, A., Vlase, S., Scutaru, L., Călin M.R., Serbina, L. - Finite Element Method Analysis Of Some Fibre-Reinforced Composite Laminates, Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 7, July 2011, INOE Publishing House, p. 782-785, ISSN: 1842-6573. FI=0,449  
URL lista lucrari <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=64>
  6. Stanciu, A., **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, M.L., Călin, M.R. - Mechanical Behavior of CSM450 and RT800 Laminates Subjected to Four-Point Bend Tests, Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 6, Issue 3-4, March-April 2012, INOE Publishing House, p. 495-497, ISSN: 1842-6573. FI=0,449  
URL lista lucrari <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=71>
  7. Vlase, S., **Teodorescu-Drăghicescu, H.**, Călin, M.R., Scutaru, M.L. - Advanced Polylyte composite laminate material behavior to tensile stress on weft direction, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 14, No. 7-8, July-August 2012, INOE Publishing House, p. 658-663, ISSN: 1454-4164. FI=0,563.  
<http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3073&catid=72>
  8. **H. Teodorescu-Drăghicescu**, M. L. Scutaru, D. Rosu, M. R. Calin, P. Grigore - New Advanced Sandwich Composite with twill weave carbon and EPS, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 15, No. 3-4, March-April 2013, INOE Publishing House, p. 199-203, ISSN: 1454-4164. FI=0,563.  
<http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3177&catid=76>
  9. A. Modrea, S. Vlase, **H. Teodorescu-Drăghicescu**, M. Mihălcică, M.R. Calin, C. Astalos – Properties of Advanced New Materials Used in Automotive Engineering, Optoelectronics And Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 7, No. 5-6, May-June 2013, INOE Publishing House, p. 452-455, ISSN: 1454-4164. FI=0,449.  
<http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2107&catid=78>
  10. S. Vlase, R. Purcarea, **H. Teodorescu-Drăghicescu**, M.R. Calin, I. Szava, M. Mihalcica - Behavior of a new Heliopol/Stratimat300 composite laminate, Optoelectronics And

Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 7, No. 7-8, July-August 2013, INOE Publishing House, p. 569-572, ISSN: 1454-4164. FI=0,449.

<http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2132&catid=79>

11. T. Heitz, **H. Teodorescu-Draghicescu**, S. Lache, A. Chiru, M.R. Calin – Advanced T700/XB3585 UD carbon fibers-reinforced composite, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 16, No. 5-6, May-June 2014, INOE Publishing House, p. 568-573, ISSN: 1454-4164. FI=0,563.  
<http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3474&catid=84>
12. **H. Teodorescu-Draghicescu**, S. Vlase, M.D. Stanciu, I. Curtu, M. Mihalca - Advanced Pultruded Glass Fibers-Reinforced Isophthalic Polyester Resin, Materiale Plastice, Vol. 52, No. 1, March 2015, p. 62-64, ISSN: 0025-5289. FI=0,463  
<http://www.revmaterialeplastice.ro/pdf/cuprins%2012015.pdf>
13. M. L. Scutaru, **H. Teodorescu-Draghicescu**, S. Vlase, M. Marin - Advanced HDPE with increased stiffness used for water supply networks, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 17, No. 3-4, March-April 2015, INOE Publishing House, p. 484-488, ISSN: 1454-4164.  
<http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3690&catid=89>

#### PAPERS IN INTERNATIONAL CONFERENCES

1. **Teodorescu-Drăghicescu, H.**, Vlase, S., Cotoros, D. – Experimental Method To Determine Residual Internal Stresses In Tubular Composite Structures. Proceedings 1<sup>st</sup> International Conference on Computational Mechanics and Virtual Engineering COMEC 2005, Transilvania University of Brasov, October, 20 – 22, 2005, ISBN 973-635-593-2, p. 480 – 483.
2. **Teodorescu-Drăghicescu, H.**, Cotoros, D., Roșu, D. – Most encountered failure criteria of fiber reinforced composite laminates. Proceedings, Vol. II 1<sup>st</sup> International Conference on Computational Mechanics and Virtual Engineering COMEC 2005, Transilvania University of Brasov, October, 20 – 22, 2005, ISBN 973-635-593-4, p. 89 – 92.
3. **Teodorescu-Drăghicescu, H.**, Cotoros, D., Roșu, D. – The behaviour at temperature and humidity variations of fiber-reinforced composite structures. Proceedings, II 1<sup>st</sup> International Conference on Computational Mechanics and Virtual Engineering COMEC 2005, Transilvania University of Brasov, October, 20 – 22, 2005, ISBN 973-635-593-4, p. 93 – 99.
4. Goia, I., Roșu, D., **Teodorescu-Drăghicescu, H.** – Static tests regarding an advanced sandwich composite structure. In Proceedings of the 11<sup>th</sup> International Symposium of Experimental Stress Analysis and Testing of Materials, Modelling and Optimization in the Machine Building Field, MOCM-12, Vol. 3, University of Bacău, 13-14 sept. 2006, ISSN 1224 – 7480, p. 111 – 116.
5. **Teodorescu-Drăghicescu, H.**, Teodorescu, F. – Analysis of [0/45-45/90]<sub>s</sub> composite laminate subjected to mechanical loading and temperature-humidity variation. In Proceedings of the 1<sup>st</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2006, 19 – 22 October 2006, Transilvania University of Brasov, ISBN 973-635-821-8, ISBN 978-973-635-821-0, p. 58 – 64.
6. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L. – Dynamic analysis of an ultra-lightweight sandwich composite structure. In Proceedings of the 1<sup>st</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2006, 19 – 22 October 2006, Transilvania University of Brasov, ISBN 973-635-821-8, ISBN 978-973-635-821-0, p. 51 – 57.
7. Teodorescu, F., **Teodorescu-Drăghicescu, H.** - Sheet Molding Compounds. Technological aspects and microstructure. In Proceedings of the 1<sup>st</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2006, 19 – 22

- October 2006, Transilvania University of Brasov, ISBN 973-635-821-8, ISBN 978-973-635-821-0, p. 240 – 244.
8. Goia, I., Rosu, D., Vlase, S., **Teodorescu-Drăghicescu, H.** - Tensile and bending tests of an advanced ultra-lightweight sandwich composite structure. Proceedings of the 1<sup>st</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2006, 19 – 22 October 2006, Transilvania University of Brasov, ISBN 973-635-821-8, ISBN 978-973-635-821-0, p. 195 – 201.
  9. Goia, I., Rosu, D., **Teodorescu-Drăghicescu, H.**, Scutaru, L. - Tsai-Hill criterion for fiber reinforced composite laminates applied to a cylindrical tank. In Proceedings of the 1<sup>st</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2006, 19 – 22 October 2006, Transilvania University of Brasov, ISBN 973-635-821-8, ISBN 978-973-635-821-0, p. 65 – 69.
  10. Scutaru, L., **Teodorescu-Drăghicescu, H.** – Study concerning the thermo transfer by using “sandwich” structure. In Proceedings of the 1<sup>st</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2006, 19 – 22 October 2006, Transilvania University of Brasov, ISBN 973-635-821-8, ISBN 978-973-635-821-0, p. 70 – 73.
  11. Scutaru, L., **Teodorescu-Drăghicescu, H.**, Vasii, M. – Experimental study concerning the internal strains of wood while drying. In Proceedings of the 1<sup>st</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2006, 19 – 22 October 2006, Transilvania University of Brasov, ISBN 973-635-821-8, ISBN 978-973-635-821-0, p. 192 – 194.
  12. **Teodorescu-Drăghicescu, H.**, Vlase, S., Goia, I., Scutaru, L., Stanciu, A., Vasii, M. – Tensile Behaviour of Composite Specimens Made From Chopped Strand Mat Reinforced Polyester Resin. 24<sup>th</sup> Danubia – Adria Symposium on Developments in Experimental Mechanics, 19 – 22 September 2007, Sibiu, Editura Universității Lucian Blaga Sibiu, ISBN 978-973-739-456-9, p. 255 – 256.
  13. **Teodorescu-Drăghicescu, H.**, Vlase, S., Teodorescu, F. – Aspects regarding the recycling of carbon fibers reinforced polymer matrix composites. International Workshop “Trends and Research in Composite Materials Recycling” TRECRY 2007, 11 – 12 October 2007, Brasov, Romania, ISBN 978-973-598-261-4, p. 80 – 85.
  14. **Teodorescu-Drăghicescu, H.**, Vlase, S., Vasii, M., Roșu, D. – Tensile tests on “RT300” roving fabric reinforced polymer matrix composites. The 2nd Int. Conf. “Computational Mechanics and Virtual Engineering” COMEC 2007, 11 – 13 October 2007, Brașov, Romania, ISBN 978-973-598-117-4, p. 399 – 402.
  15. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Stanciu, A. – On the mechanical behaviour of some filament winding composite tubes subjected to internal pressure. The 2nd Int. Conf. “Computational Mechanics and Virtual Engineering” COMEC 2007, 11 – 13 October 2007, Brașov, Romania, ISBN 978-973-598-117-4, p. 191 – 196.
  16. **Teodorescu-Drăghicescu, H.**, Vlase, S., Munteanu, V., Guiman, V. – Tensile tests on randomly reinforced polymer matrix composites. The 2nd Int. Conf. “Computational Mechanics and Virtual Engineering” COMEC 2007, 11 – 13 October 2007, Brașov, Romania, ISBN 978-973-598-117-4, p. 187 – 190.
  17. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Purcarea, R. – Mechanical behaviour of non-pre-tensioned glass fabric reinforced composite tubes subjected to internal pressure. The 2nd Int. Conf. “Computational Mechanics and Virtual Engineering” COMEC 2007, 11 – 13 October 2007, Brașov, Romania, ISBN 978-973-598-117-4, p. 395 – 398.
  18. Roșu, D., Goia, I., Vlase, S., **Teodorescu-Drăghicescu, H.** – Some failure modes of PolyLite 440-M888 polyester resin reinforced with RT300 roving fabric subjected to tensile loadings. The 13<sup>th</sup> Int. Conf. of Fracture Mechanics, 1 – 3 November 2007,



- University of Bacau, Engineering Faculty, MOCM-13, Vol. 4 edited by Romanian Technical Sciences Academy, ISSN 1224-7480, p. 203 – 206.
19. Scutaru, M.L., Vlase, S., **Teodorescu-Draghicescu, H.**, Seritan, G. – Influence of Materials On The Thermic Isolation Of a Construction Site. 2<sup>nd</sup> Int. Conf. “Advanced Composite Materials Engineering” COMAT2008, 9-11 October 2008, Brasov, Romania, Vol. 1A, ISSN 1844-9336, p. 197 – 200.
  20. Stanca, G., Teodorescu, F., **Teodorescu-Draghicescu, H.**, Condurache, D., Craciunoiu, S.T. – Pre-tensioning Procedure of PMC-tubes For An Ultra Light Chair Used In Medical Technique. 2<sup>nd</sup> Int. Conf. “Advanced Composite Materials Engineering” COMAT2008, 9-11 October 2008, Brasov, Romania, Vol. 1A, ISSN 1844-9336, p. 201 – 206.
  21. **Teodorescu-Draghicescu, H.**, Vlase, S., Scutaru, M.L., Stanciu, A., Serbina, L. – Stiffness Evaluation Of Some Advanced Composite Laminates Under Off-Axis Loading System. 2<sup>nd</sup> Int. Conf. “Advanced Composite Materials Engineering” COMAT2008, 9-11 October 2008, Brasov, Romania, Vol. 1A, ISSN 1844-9336, p. 213 – 218.
  22. **Teodorescu-Draghicescu, H.**, Vlase, S., Luca-Motoc, D., Cerbu, C., Rosu, D. – 3-Point Bending Tests On Extruded Polystyrene Foam. 2<sup>nd</sup> Int. Conf. “Advanced Composite Materials Engineering” COMAT2008, 9-11 October 2008, Brasov, Romania, Vol. 1A, ISSN 1844-9336, p. 289 – 292.
  23. Cerbu, C., Ciofoaia, V., **Teodorescu-Draghicescu, H.**, Rosca, I.C. – Water Effects On The Composites Made Of E-Glass Woven Fabrics. 2<sup>nd</sup> Int. Conf. “Advanced Composite Materials Engineering” COMAT2008, 9-11 October 2008, Brasov, Romania, Vol. 1A, ISSN 1844-9336, p. 310 – 313.
  24. Scărlătescu, D., Goia, I., **Teodorescu-Drăghicescu, H.** - Tensile and Bending Tests on 63 x 4 High Density Polyethylene Tubes. The 3<sup>rd</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2009, Transilvania University Press of Braşov, Romania, 29-30 October, 2009, ISBN 978-973-598-572-1, Vol. I, p. 278-282.
  25. Roşu, D., Goia, I. Vlase, S., **Teodorescu-Drăghicescu, H.** - Heating Radiant Systems Using Advanced Composite Materials As Resistive Element. The 3<sup>rd</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2009, Transilvania University Press of Braşov, Romania, 29-30 October, 2009, ISBN 978-973-598-572-1, Vol. II, p. 662-665.
  26. Scutaru, M.L., **Teodorescu-Drăghicescu, H.**, Secară, E., Seritan, G.C., Vasii, M. - Contributions On The Wooden Materials Thermo Insulator Panels Used In Housing Construction. The 3<sup>rd</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2009, Transilvania University of Braşov, Romania, 29-30 October, 2009, ISBN 978-973-598-572-1, p. 690-693.
  27. Stanciu, A., **Teodorescu-Drăghicescu, H.**, Candea, I., Secară, E. - Experimental Approaches Regarding The Elastic Properties of a Composite Laminate Subjected to Static Loads. The 3<sup>rd</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2009, Transilvania University of Braşov, Romania, 29-30 October, 2009, ISBN 978-973-598-572-1, p. 889-892.
  28. **Teodorescu-Drăghicescu, H.**, Roşu, D., Goia, I., Vlase, S., Purcărea, R., Bencze, A. - On The Stiffness Increase Of Fibre-Reinforced Composite Structures. The 3<sup>rd</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2009, Transilvania University of Braşov, Romania, 29-30 October, 2009, ISBN 978-973-598-572-1, p. 777-782.
  29. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Scutaru, M.L., Popa, I., Stanciu, A. - Stiffness Evaluation Of Some Quasi-Isotropic Fibre-Reinforced Composite Laminates. The 3<sup>rd</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2009, Transilvania University of Braşov, Romania, 29-30 October, 2009, ISBN 978-973-598-572-1, p. 783-788.

30. Vlase, S., **Teodorescu-Drăghicescu, H.**, Scutaru, M.L., Petric, L. - Some Considerations Concerning The Use Of The Law Of Mixture In The Identification Of The Mechanical Properties Of The Composites. The 3<sup>rd</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2009, Transilvania University of Braşov, Romania, 29-30 October, 2009, ISBN 978-973-598-572-1, p. 852-858.
31. **Teodorescu-Drăghicescu, H.**, Vlase, S. – Prediction of Elastic Properties of Multiphase Prepregs With Multiple Applications. 3<sup>rd</sup> International Conference Advanced Composite Materials Engineering COMAT 2010, 27-29 October 2010, Transilvania University of Brasov, Romania, Vol. 1, Eds. D. Bigoni, S. Vlase, A. Chiru, ISSN: 1844-9336, p. 248-253.
32. **Teodorescu-Drăghicescu, H.**, Chiru, A., Vlase, S., Paun, L., Rosu, D., Scutaru, L. – Experimental Analysis of an Advanced Composite U200x60x10 Pultruded Profile. 3<sup>rd</sup> International Conference Advanced Composite Materials Engineering COMAT 2010, 27-29 October 2010, Transilvania University of Brasov, Romania, Vol. 1, Eds. D. Bigoni, S. Vlase, A. Chiru, ISSN: 1844-9336, p. 254-259
33. Motoc, D.L., Dadirlat, N., **Teodorescu-Drăghicescu, H.** – A Comparative Study on the Polymeric Multiphase Composite Failure in 3-Points Bending Tests. 3<sup>rd</sup> International Conference Advanced Composite Materials Engineering COMAT 2010, 27-29 October 2010, Transilvania University of Brasov, Romania, Vol. 2, Eds. D. Bigoni, S. Vlase, A. Chiru, ISSN: 1844-9336, p. 24-27.
34. Rosu, D., Pop, O., Goia, I., **Teodorescu-Drăghicescu, H.** – Stiffness Evaluation of an Advanced Sandwich Composite Panel. 3<sup>rd</sup> International Conference Advanced Composite Materials Engineering COMAT 2010, 27-29 October 2010, Transilvania University of Brasov, Romania, Vol. 2, Eds. D. Bigoni, S. Vlase, A. Chiru, ISSN: 1844-9336, p. 211-216.
35. Scarlatescu, D., Goia, I., **Teodorescu-Drăghicescu, H.** – Stiffness Experimental Analysis of High Density Polyethylene Tubes. 3<sup>rd</sup> International Conference Advanced Composite Materials Engineering COMAT 2010, 27-29 October 2010, Transilvania University of Brasov, Romania, Vol. 2, Eds. D. Bigoni, S. Vlase, A. Chiru, ISSN: 1844-9336, p. 227-230.
36. Stanciu, A., Cotoros, D., Purcarea, R., **Teodorescu-Drăghicescu, H.** – Studies Upon the Mechanical Properties of Roving and Mat\_Roving Composites Subjected to Traction. 3<sup>rd</sup> International Conference Advanced Composite Materials Engineering COMAT 2010, 27-29 October 2010, Transilvania University of Brasov, Romania, Vol. 2, Eds. D. Bigoni, S. Vlase, A. Chiru, ISSN: 1844-9336, p. 283-287.
37. **Teodorescu-Drăghicescu, H.**, Vlase, S., Goia, I., Teodorescu, F., Scărlătescu, D. – Compliances and Stiffness Matrices of a Glass Fibre-Reinforced Composite Lamina Subjected to Biaxial Loadings. The 4<sup>th</sup> Int. Conf. “Computational Mechanics and Virtual Engineering COMEC 2011”, 20-22 October 2011, Transilvania University of Brasov, Romania, Vol. 2, p. 477-480.
38. Stanciu, A.E., Purcărea, R., **Teodorescu-Drăghicescu, H.** – Experimental Approaches Regarding the Elastic Properties of Roving Subjected to Bending. The 4<sup>th</sup> Int. Conf. “Computational Mechanics and Virtual Engineering COMEC 2011”, 20-22 October 2011, Transilvania University of Brasov, Romania, Vol. 2, p. 500-503.
39. Scărlătescu, D., Tofan, M., Goia, I., **Teodorescu-Drăghicescu, H.** – A MathCad Study of Consumers Disposition in Water Supply Networks. The 4<sup>th</sup> Int. Conf. “Computational Mechanics and Virtual Engineering COMEC 2011”, 20-22 October 2011, Transilvania University of Brasov, Romania, Vol. 2, p. 577-580.
40. Scărlătescu, D., Tofan, M., Goia, I., **Teodorescu-Drăghicescu, H.** – A MathCad Study of the Hydraulic Resistance in Polyethylene Pipelines. The 4<sup>th</sup> Int. Conf. “Computational Mechanics and Virtual Engineering COMEC 2011”, 20-22 October 2011, Transilvania University of Brasov, Romania, Vol. 2, p. 581-584.

41. **Teodorescu-Drăghicescu, H.**, Vlase, S. - Stresses In Various Composite Laminates For General Set Of Applied In-Plane Loads. 5<sup>th</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2013, Transilvania University of Brasov, Romania, 24-25 October, 2013, p. 148-153.
42. **Teodorescu-Drăghicescu, H.**, Vlase, S. – Prediction Of Elastic Properties Of Some Sheet Molding Compounds. 5<sup>th</sup> International Conference “Computational Mechanics and Virtual Engineering” COMEC 2013, Transilvania University of Brasov, Romania, 24-25 October, 2013, p. 448-454.
43. **Teodorescu-Drăghicescu, H.**, Vlase, S. - Process Related Loadings Variations Of Unidirectional Fibers-Reinforced Composites. 5<sup>th</sup> International Conference “Advanced Composite Materials Engineering” COMAT 2014, Transilvania University of Brasov, Romania, 16-17 October, 2014, p. 35-40.
44. **Teodorescu-Drăghicescu, H.**, Goia, I., Roșu, D., Birtu, C., Teodorescu, F. – Experimental Method to Increase the Loading Capability of Glass-Fibre Reinforced Composite Tubes. *The 13<sup>th</sup> European Conference on Fracture ECF13*, 6<sup>th</sup> – 9<sup>th</sup> September 2000, San Sebastián, Spain, paper reference: 4H198.
45. Goia, I., **Teodorescu-Drăghicescu, H.**, Roșu, D., Birtu, C. – The Pre-Tension of Glass-Fibre Reinforced Composite Tubes. Experimental Method. *17<sup>th</sup> Danubia-Adria Symposium on Experimental Methods in Solid Mechanics*, 11<sup>th</sup> – 14<sup>th</sup> October 2000, Prague, Czech Republic, p. 111 – 112.
46. Teodorescu, F., Crăciunoiu, T.S., **Teodorescu-Drăghicescu, H.** – Static Behaviour Of An Advance Sandwich Composite Structure. *12<sup>th</sup> International Scientific-Technical Conference Trans & MOTAUTO’05*, 23<sup>rd</sup> – 25<sup>th</sup> November 2005, Veliko Tarnovo, Bulgaria, p. 83 – 86.
47. Vlase, S., **Teodorescu-Drăghicescu, H.**, Guiman, V., Munteanu, V. – Determination of Reactions That Appear in One Freedom Degree Mechanisms Constraints Without Computing the Motions Equations. *3<sup>rd</sup> International Conference on Energy Efficiency and Agricultural Engineering EE&AE 2006*, Rousse, 7 – 9 June 2006, p. 506 – 512.
48. **Teodorescu-Drăghicescu, H.**, Vlase, S., Guiman, V., Vasii, M., Munteanu, V. – On the combined thermal-, moisture-, and mechanical loading of some composite laminate structures. *Proceedings Technical University Varna, ISSN 1312-8612, Mașinostroenie i mașinoznание*, 31 June-2 July 2006, Jrebchevo, Bulgaria, p. 65 – 68.
49. Vlase, S., **Teodorescu, H.**, Nan, N., Apopei, R., Stanciu, A. – On the motion equations of the three-dimensional mechanical systems with elastic elements. *Proceedings Technical University Varna, ISSN 0861-9727, Mehanica na mașinite*, 31 June-2 July 2006, Jrebchevo, Bulgaria, p. 89 – 92.
50. **Teodorescu-Drăghicescu, H.**, Vlase, S., Cotoros, D., Roșu, D. – Damping Analysis of an Advanced Sandwich Composite Structure. *WSEAS Transactions on Applied and Theoretical Mechanics, Issue 2, Vol. 1, Dec. 2006, ISSN: 1991-8747, 2<sup>nd</sup> WSEAS Int. Conf. On Applied and Theoretical Mechanics, MECHANICS’06, 20-22 Nov. 2006, Venice, Italy*, p. 147-152.
51. Tofan, M., Vlase, S., **Teodorescu-Drăghicescu, H.** – On the Kinematic Identification of the Hurdles Race using Cardan’s Rotation. *WSEAS Transactions on Applied and Theoretical Mechanics, Issue 2, Vol. 1, Dec. 2006, ISSN: 1991-8747, 2<sup>nd</sup> WSEAS Int. Conf. On Applied and Theoretical Mechanics, MECHANICS’06, 20-22 Nov. 2006, Venice, Italy*, p. 187 – 191.
52. Lupu, M., Vlase, S., **Teodorescu-Drăghicescu, H.** – Study of Speed Regulators in Case of Some Non-Autonomous Vibrating Mechanisms. *WSEAS Transactions on Systems, Issue 1, Vol. 6, Jan. 2007, ISSN 1109-2777*, p. 82.
53. Vlase, S., **Teodorescu-Drăghicescu, H.**, Scutaru, L. – On the Form of the Motion Equations of the Multibody Systems with Elastic Elements. *WSEAS Transactions on Systems, Issue 1, Vol. 6, Jan. 2007, ISSN 1109-2777*, p. 190.



54. **Teodorescu-Drăghicescu, H.**, Vlase, S., Nicoară, D., Guiman, V. – Mechanical Behaviour of Pre-tensioned Glass Fiber Reinforced Composite Tubes Subjected to Internal Pressure. *Studies in Mechanics, Environment and Geoscience. Proceedings of the 2<sup>nd</sup> IASME/WSEAS Int. Conf. on Continuum Mechanics*, Portorose, Slovenia, p. 84 – 89, ISSN 1790-5095, ISBN 978-960-8457-70-6, republicata in *WSEAS Transactions on Applied and Theoretical Mechanics*, Issue 2, Volume 2, February 2007, ISSN 1991-8747, p. 29.
55. **Teodorescu-Drăghicescu, H.**, Vlase, S., Candea, I., Scutaru, L. – Estimation of Homogenized Elastic Coefficients of Pre-impregnated Composite Materials. *Studies in Mechanics, Environment and Geoscience. Proceedings of the 2<sup>nd</sup> IASME/WSEAS Int. Conf. on Continuum Mechanics*, Portorose, Slovenia, ISSN 1790-5095, ISBN 978-960-8457-70-6, p. 134 – 139.
56. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Stanciu, A., Purcarea, R. – On the pre-tensioning glass fibers reinforced composite tubes. *Proceedings Technical University Varna*, ISSN 0861-9727, *Mehanica na maşinite*, 31 June-2 July 2007, Sliven, Bulgaria, p. 75 – 80.
57. **Teodorescu, H.**, Vlase, S., Cotoros, D., Munteanu, V., Guiman, V. – Modelling of Tensile Behaviour of Sheet Moulding Compounds. *The 2007 International Conference of Mechanical Engineering ICME'07, World Congress on Engineering 2007*, Imperial College London, 2 – 4 July 2007, *Lecture Notes in Engineering and Computer Science*, ISBN (Vol. I): 978-988-98671-5-7, ISBN (Vol. II): 978-988-98671-2-6, p. 1407 – 1410 (ISI).
58. Teodorescu, F., Grigore, S., Condurache, D., **Teodorescu-Drăghicescu, H.** – Sheet Moulding Compounds. Technological aspects and microstructure. *Conferința Științifică Internațională Tehnologii Moderne, Calitate, Restructurare*. Universitatea Tehnică a Moldovei, Chișinău, 2007, ISBN 978-9975-45-035-5 (Vol. 1), p. 404 – 407.
59. **Teodorescu, H.**, Munteanu, V., Stanciu, A., et. al. – On upper and lower limits of elastic coefficients of SMC composite materials. *7<sup>th</sup> WSEAS International Conference on Simulation, Modelling and Optimization (SMO'07)*, September 15-17, 2007, Beijing, China, pp. 191-196 (ISI).
60. **Teodorescu, H.**, Vlase, S., Candea, I. – On tensile behaviour of Sheet Moulding Compounds. *7<sup>th</sup> WSEAS International Conference on Simulation, Modelling and Optimization (SMO'07)*, September 15-17, 2007, Beijing, China, pp. 197-200 (ISI).
61. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Purcarea R. – Aspecte privind mecanica structurilor compozite stratificate solicitate biaxial, *Materialele științifice a celei de a XXXI-A conferințe internaționale de mecanica solidelor*, Chisinau 27-29 Septembrie 2007, ISBN 978-9975-45-048-2, p. 62 – 65.
62. **Teodorescu, H.**, Stanciu, A., Purcarea, R., Munteanu, V. – An original pre-tensioning technique of PMC tubes for dynamic applications. *3<sup>rd</sup> WSEAS Int. Conf. on Dynamical Systems and Control*, Arcachon, France, 13 – 15 October 2007, ISBN 978-960-6766-08-4, ISSN 1790-5117, p. 218 – 223 (ISI).
63. **Teodorescu, H.**, Vlase, S. – Dynamic analysis of an ultra-lightweight sandwich structure for multiple applications. *3<sup>rd</sup> WSEAS Int. Conf. on Dynamical Systems and Control*, Arcachon, France, 13 – 15 October 2007, ISBN 978-960-6766-08-4, ISSN 1790-5117, p. 229 – 234 (ISI).
64. Scutaru, L., Vlase, S., **Teodorescu, H.** – Study of vibration suppression of mechanical systems with elastic elements. *3<sup>rd</sup> WSEAS Int. Conf. on Dynamical Systems and Control*, Arcachon, France, 13 – 15 October 2007, ISBN 978-960-6766-08-4, ISSN 1790-5117, p. 294 – 297 (ISI).
65. Teodorescu, F., Stanca, G., **Teodorescu, H.**, Craciunoiu, R.S., Condurache, D. – Estimation method of elastic properties of Sheet Molding Compounds. *Proceedings of the 3<sup>rd</sup> IASME/WSEAS Int. Conf. on CONTINUUM MECHANICS (CM'08)*, University

- of Cambridge, Cambridge, UK, February 23-25, 2008, ISBN 978-960-6766-38-1, ISSN 1790-2769, p. 77 – 82 (ISI).
66. **Teodorescu, H.**, Vlase, S., Scutaru, L. – Modeling the tensile behavior of pre-impregnated composite materials. Proceedings of the 3<sup>rd</sup> IASME/WSEAS Int. Conf. on CONTINUUM MECHANICS (CM'08), University of Cambridge, Cambridge, UK, February 23-25, 2008, ISBN 978-960-6766-38-1, ISSN 1790-2769, p. 89 – 92 (ISI).
  67. Vlase, S., **Teodorescu-Drăghicescu, H.**, Scutaru, L.M. – On the eigenvalues of the elastic systems with some symmetries. Proceedings of the 6<sup>th</sup> International Conference of DAAAM Baltic INDUSTRIAL ENGINEERING, Editor R. Kyttner, 24-26 April, 2008, Tallinn, Estonia, ISBN 978-9-985-59783-5, p. 189 – 194 (ISI).
  68. Vlase, S., Scutaru, L.M., **Teodorescu-Drăghicescu, H.** – Some considerations concerning the use of the law of mixture in the identification of the mechanical properties of the composites. Proceedings of the 6<sup>th</sup> International Conference of DAAAM Baltic INDUSTRIAL ENGINEERING, Editor R. Kyttner, 24-26 April, 2008, Tallinn, Estonia, ISBN 978-9-985-59783-5, p. 577 – 582 (ISI).
  69. **Teodorescu-Drăghicescu, H.**, Vlase, S., Stanciu, A., Guiman, V., Munteanu, V., Vasii, M. – The increase of loading capability of glass fibers reinforced composite tubes. Proceedings of the 6<sup>th</sup> International Conference of DAAAM Baltic INDUSTRIAL ENGINEERING, Editor R. Kyttner, 24-26 April, 2008, Tallinn, Estonia, ISBN 978-9-985-59783-5, p. 567 – 572.
  70. Teodorescu, F., Condurache, D., **Teodorescu, H.**, Grejdenescu, R. – Some aspects regarding the recycling of advanced fibers reinforced polymer matrix composites. Proceedings of the 6<sup>th</sup> International Conference of DAAAM Baltic INDUSTRIAL ENGINEERING, Editor R. Kyttner, 24-26 April, 2008, Tallinn, Estonia, ISBN 978-9-985-59783-5, p. 573 – 576 (ISI).
  71. **Teodorescu, H.**, Vlase, S., Candea, I., Motoc, D.L. – Some averaging methods in the micromechanics of composite materials with periodic structure. Proceedings of the 10<sup>th</sup> WSEAS Int. Conf. on AUTOMATIC CONTROL, MODELLING & SIMULATION (ACMOS'08), Istanbul, Turkey, May 27-30, 2008, ISBN 978-960-6766-63-3, ISSN 1790-5117, p. 210 – 214 (ISI).
  72. **Teodorescu, H.**, Vlase, S., Mihalcica, V., Vasii, M. – Modeling some composite laminates subjected to temperature and humidity variations. Proceedings of the 10<sup>th</sup> WSEAS Int. Conf. on AUTOMATIC CONTROL, MODELLING & SIMULATION (ACMOS'08), Istanbul, Turkey, May 27-30, 2008, ISBN 978-960-6766-63-3, ISSN 1790-5117, pp. 215 – 220 (ISI).
  73. Teodorescu, F., **Teodorescu-Drăghicescu, H.**, Stanca, G., Condurache, D., Craciunoiu, R.S. – On the recycling of carbon fibers reinforced polymer matrix composites. Proceedings of the 4<sup>th</sup> IASME/WSEAS Int. Conf. on ENERGY, ENVIRONMENT, ECOSYSTEMS and SUSTAINABLE DEVELOPMENT (EEESD'08), Algarve, Portugal, June 11-13, 2008, ISBN 978-960-6766-71-8, ISSN 1790-5095, pp. 294 – 297.
  74. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Teodorescu, F. – An original approach of tensile behavior and elastic properties of multiphase pre-impregnated composite materials. WSEAS Transactions on Applied and Theoretical Mechanics, Issue 2, Vol. 3, February 2008, ISSN 1991-8747, pp. 53 – 62.
  75. **Teodorescu, H.**, Vlase, S., Motoc, D.L., Popa, I., Rosu, D., Teodorescu, F. – Mechanical behavior of an advanced sandwich composite structure. WSEAS Int. Conf. on ENGINEERING MECHANICS, STRUCTURES, ENGINEERING GEOLOGY (EMESEG '08), Heraklion, Greece, July 22-24, 2008, ISBN 978-960-6766-88-6, ISSN 1790-2769, pp. 280 – 285 (ISI).
  76. Stanca, G., Teodorescu, F., Condurache, D., **Teodorescu, H.**, Craciunoiu, S. – On the pre-tensioning technique of PMC-tubes for a ultralight wheel chair with applications in the medical technique. 1<sup>st</sup> WSEAS International Conference on Finite Difference – Finite

- Elements – Finite Volumes – Boundary Elements, Malta, Malta, September 11-13, 2008, ISBN 978-960-474-004-8, p. 45 – 48 (ISI).
77. Motoc, D.L., **Teodorescu, H.** – Fillers' Content Influence On The Mechanical Properties Of The Glass Mat Reinforced Polymeric Composite. Annals of DAAAM for 2008 & Proceedings of the 19<sup>th</sup> International DAAAM Symposium “Intelligent Manufacturing & Automation”, 22-25<sup>th</sup> October 2008, Trnava, Slovakia, ISBN 978-3-901509-68-1, ISSN: 1726-9679, pp. 913 – 914, Ed. B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008 (ISI).
78. **Teodorescu, H.**, Motoc, D.L. – The Influence of the Post-Curing Treatment on the Mechanical Properties of the Glass Fibers Mat Polymeric Composite Materials. Annals of DAAAM for 2008 & Proceedings of the 19<sup>th</sup> International DAAAM Symposium “Intelligent Manufacturing & Automation”, 22-25<sup>th</sup> October 2008, Trnava, Slovakia, ISBN 978-3-901509-68-1, ISSN: 1726-9679, pp. 1373 – 1374, Ed. B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008 (ISI).
79. **Teodorescu-Drăghicescu, H.**, Vlase, S., Motoc, L.D., Scutaru, M.L., Stanciu, A., Roșu, D. – New Ultra Lightweight and Extreme Stiff Sandwich Composite Structure for Multiple Applications (2008). 1375-1376 Annals of DAAAM for 2008 & Proceedings of the 19<sup>th</sup> International DAAAM Symposium, “Intelligent Manufacturing & Automation”, 22-25<sup>th</sup> October 2008, Trnava, Slovakia, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp. 688, Ed. B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008 (ISI).
80. **Teodorescu-Drăghicescu, H.**, Vlase, S., Motoc, L.D., Scutaru, M.L., Purcarea, R. - On the Elastic Properties of Some Advanced Composite Laminates Subjected to Off-axis Loading Systems. Proceedings of the 1<sup>st</sup> WSEAS Int. Conf. on MATERIALS SCIENCE (MATERIALS'08), Bucharest, Romania, 7-9 November, 2008, ISBN: 978-960-474-024-6, ISSN: 1790-2769, pp. 40 – 43 (ISI).
81. Scutaru, M.L., Vlase, S., **Teodorescu-Drăghicescu, H.**, Purcarea, R. – Study Regarding Thermal Transfer Through Wooden Panels. Proceedings 1<sup>st</sup> WSEAS Int. Conf. on Climate Changes, Global Warming, Biological Programs, Bucharest, Romania, 7-9 November, 2008, ISSN: 1790-5095, pp. 19 – 21 (ISI).
82. Scutaru, M.L., Katouzian, M., Vlase, S., **Teodorescu-Drăghicescu, H.**, Chiru, A. – An Estimation of the Viscoelastic Parameters of laminated Composites. Proceedings of the 4<sup>th</sup> IASME/WSEAS International Conference on CONTINUUM MECHANICS (CM'09), Cambridge, 24-26 February, 2009, ISBN: 978-960-474-056-7, ISSN: 1790-2769, pp. 140-145 (ISI).
83. Scutaru, M.L., Katouzian, M., Vlase, S., **Teodorescu-Drăghicescu, H.**, Chiru, A. – Some Results and an Experimental Evaluation of the Viscoelastic Parameters of Laminated Composites. Proceedings of the 4<sup>th</sup> IASME/WSEAS International Conference on CONTINUUM MECHANICS (CM'09), Cambridge, 24-26 February, 2009, ISBN: 978-960-474-056-7, ISSN: 1790-2769, pp. 146-149 (ISI).
84. Scutaru, M.L., Vlase, S., **Teodorescu-Drăghicescu, H.**, Chiru, A. – Thermal Transfer Analysis of Sandwich Panels Made of Composite Materials Used in Wood Housing Construction in Order to Lessen Energy Consumption. Proceedings of the 4<sup>th</sup> IASME/WSEAS International Conference on CONTINUUM MECHANICS (CM'09), Cambridge, 24-26 February, 2009, ISBN: 978-960-474-056-7, ISSN: 1790-2769, pp. 150-155 (ISI).
85. Vlase, S., **Teodorescu-Drăghicescu, H.** - Finite Element Method Used in the Multibody Systems With Elastic Elements. Proceedings of the 4<sup>th</sup> IASME/WSEAS International Conference on CONTINUUM MECHANICS (CM'09), Cambridge, 24-26 February, 2009, ISBN: 978-960-474-056-7, ISSN: 1790-2769, pp. 162-167 (ISI).
86. Rosu, D., **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, M.L., Teisanu, A. – Heating radiant systems manufactured from advanced composite materials. Proceedings of the 13<sup>th</sup> International Conference on Modern Technologies, Quality and Innovation ModTech

- 2009, Iasi & Chisinau, 21-23 May 2009, POLITEHNIUM Publishing House of Technical University "Gheorghe Asachi" Iasi, Romania, ISSN: 2066-3919, pp. 547-550 (ISI).
87. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Purcarea, R., Popa, I. – Averaging methods in the micromechanics of pre-impregnated composite materials. Proceedings of the 13<sup>th</sup> International Conference on Modern Technologies, Quality and Innovation ModTech 2009, Iasi & Chisinau, 21-23 May 2009, POLITEHNIUM Publishing House of Technical University "Gheorghe Asachi" Iasi, Romania, ISSN: 2066-3919, pp. 643-646 (ISI).
88. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, M.L., Motoc, D.L., Guiman, V. – Some advanced symmetric composite laminates subjected to off-axis loading systems. A stiffness evaluation. Proceedings of the 13<sup>th</sup> International Conference on Modern Technologies, Quality and Innovation ModTech 2009, Iasi & Chisinau, 21-23 May 2009, POLITEHNIUM Publishing House of Technical University "Gheorghe Asachi" Iasi, Romania, ISSN: 2066-3919, pp. 647-650 (ISI).
89. Stanca, G., Teodorescu, F., Avramescu, V., **Teodorescu-Drăghicescu, H.**, Craciunoiu, S.T. – On the pre-tensioning technique of PMC-tubes for an ultra-light wheel chair with medical applications. Proceedings of the 13<sup>th</sup> International Conference on Modern Technologies, Quality and Innovation ModTech 2009, Iasi & Chisinau, 21-23 May 2009, POLITEHNIUM Publishing House of Technical University "Gheorghe Asachi" Iasi, Romania, ISSN: 2066-3919, pp. 655-658 (ISI).
90. Pirna, I., **Teodorescu-Drăghicescu, H.**, Vlase, S., Candea, I., Scutaru, M.L., Motoc, D.L., Chiru, A. – Flexural rigidity evaluation of a new sandwich structure with nonwoven polyester mat. Proceedings of the 11<sup>th</sup> WSEAS International Conference on AUTOMATIC CONTROL, MODELLING and SIMULATION (ACMOS'09), Istanbul Turkey, May 30 – June 1, 2009, Demiralp, M., Baykara, N.A., Mastorakis, N.E. (editors), ISBN: 978-960-474-082-6, ISSN: 1790-5117, Published by WSEAS Press, pp. 234-239 (ISI).
91. Pirna, I., **Teodorescu-Drăghicescu, H.**, Vlase, S., Candea, I., Scutaru, M.L., Enescu, I., Burca, I. – Elasticity evaluation of carbon and aramid fibre-reinforced laminates. Proceedings of the 11<sup>th</sup> WSEAS International Conference on AUTOMATIC CONTROL, MODELLING and SIMULATION (ACMOS'09), Istanbul Turkey, May 30 – June 1, 2009, Demiralp, M., Baykara, N.A., Mastorakis, N.E. (editors), ISBN: 978-960-474-082-6, ISSN: 1790-5117, Published by WSEAS Press, pp. 240-243 (ISI).
92. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Scutaru, M.L., Motoc, D.L. – A Homogenization Method for Pre-impregnated Composite Materials. Lecture Notes in Engineering and Computer Science, WCE 2009 - World Congress on Engineering 2009, Imperial College London, London, UK, 1-3 July, 2009, Vol. II, S.I. Ao, L. Gelman, D.W.L. Hukins, A. Hunter, A.M. Korsunsky (Eds.), International Association of Engineers IAENG, ISBN: 978-988-18210-1-0, pp. 1563-1568 (ISI).
93. **Teodorescu-Drăghicescu, H.**, Vlase, S., Roșu, D., Purcarea, R., Munteanu, V. – Damping Analysis of a New Sandwich Structure. Lecture Notes in Engineering and Computer Science, WCE 2009 - World Congress on Engineering 2009, Imperial College London, London, UK, 1-3 July, 2009, Vol. II, S.I. Ao, L. Gelman, D.W.L. Hukins, A. Hunter, A.M. Korsunsky (Eds.), International Association of Engineers IAENG, ISBN: 978-988-18210-1-0, pp. 1797-1802 (ISI).
94. Cerbu, C., **Teodorescu-Drăghicescu, H.** – Bending Behaviour of the Composite Materials Made by Recycling of the CDs and DVDs. Lecture Notes in Engineering and Computer Science, WCE 2009 - World Congress on Engineering 2009, Imperial College London, London, UK, 1-3 July, 2009, Vol. II, S.I. Ao, L. Gelman, D.W.L. Hukins, A. Hunter, A.M. Korsunsky (Eds.), International Association of Engineers IAENG, ISBN: 978-988-18210-1-0, pp. 1753-1756 (ISI).

95. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Rosu, D., Purcarea, R., Bencze, A. – Stiffness Evaluation of a Spherical Cap Sandwich Structure. Recent Advances in Engineering Mechanics, Structures and Engineering Geology. Proceedings of the 2<sup>nd</sup> WSEAS International Conference on ENGINEERING MECHANICS, STRUCTURES and ENGINEERING GEOLOGY (EMESEG'09), Nikos.E. Mastorakis, Olga Martin, Xiaojing Zheng (Eds.), Rodos, Greece, July 22-24, 2009, WSEAS Press, ISBN: 978-960-474-101-4, ISSN: 1790-2769, pp. 149-154.
96. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Scutaru, M.L., Motoc, D.L. – On the Elastic Constants of a Fibre-Reinforced Composite Laminate. Recent Advances in Engineering Mechanics, Structures and Engineering Geology. Proceedings of the 2<sup>nd</sup> WSEAS International Conference on ENGINEERING MECHANICS, STRUCTURES and ENGINEERING GEOLOGY (EMESEG'09), Nikos.E. Mastorakis, Olga Martin, Xiaojing Zheng (Eds.), Rodos, Greece, July 22-24, 2009, WSEAS Press, ISBN: 978-960-474-101-4, ISSN: 1790-2769, pp. 155-158.
97. Rosu, D., **Teodorescu-Drăghicescu, H.**, Vlase, S., Stanciu, A., Guiman, V. – Energetically Efficient Heating Radiant Systems Using Advanced Composite Materials. Advances in Environmental & Geological Science & Engineering. Proceedings of the 2<sup>nd</sup> WSEAS International Conference on ENVIRONMENTAL and GEOLOGICAL SCIENCE and ENGINEERING (EG'09), Dan Lepadatescu, Nikos Mastorakis (Eds.), Transilvania University of Brasov, Romania, September 24-26, 2009, WSEAS Press, ISBN: 978-960-474-1199, ISSN: 1790-2769, pp. 257-260 (ISI).
98. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Scutaru, M.L., Popa, I. – On the Elastic Properties of Some Fibre-Reinforced Composite Structures. Advances in Manufacturing Engineering, Quality and Production Systems. Proceedings of the 1<sup>st</sup> International Conference on MANUFACTURING ENGINEERING, QUALITY and PRODUCTION SYSTEMS (MEQAPS'09), Vol. II, Dan Lepadatescu, Nikos Mastorakis (Eds.), Transilvania University of Brasov, Romania, September 24-26, 2009, WSEAS Press, ISBN: 978-960-474-122-9, ISSN: 1790-2769, pp. 445-448.
99. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Purcarea, R., Munteanu, V. – Theoretical and Experimental Approaches Regarding the Stiffness Increase of Fibre-Reinforced Composite Structures. Advances in Manufacturing Engineering, Quality and Production Systems. Proceedings of the 1<sup>st</sup> International Conference on MANUFACTURING ENGINEERING, QUALITY and PRODUCTION SYSTEMS (MEQAPS'09), Vol. II, Dan Lepadatescu, Nikos Mastorakis (Eds.), Transilvania University of Brasov, Romania, September 24-26, 2009, WSEAS Press, ISBN: 978-960-474-122-9, ISSN: 1790-2769, pp. 449-452.
100. **Teodorescu-Drăghicescu, H.**, Stanciu, A., Vlase, S., Roșu, D., Scutaru, M.L., Teodorescu, F. – Experimental Approaches On a Fibre-Reinforced Composite Laminate For Pressure Tanks Applications. Annals of DAAAM for 2009 & Proceedings of the 20<sup>th</sup> International DAAAM Symposium, Volume 20, No. 1, ISSN 1726-9679, ISBN 978-3-901509-70-4 25-28<sup>th</sup> November 2009, Vienna, Austria, Editor: Branko Katalinic, Published by DAAAM International Vienna, Austria, pp. 0485-0486.
101. Cerbu, C., Ciofoaia, V., **Teodorescu-Drăghicescu, H.**, Roșca, I.C. – Comparatively Analysis of the Effects of Water/Seawater On the Composites Made of E-Glass Woven Fabrics And Chopped Fibres. Annals of DAAAM for 2009 & Proceedings of the 20<sup>th</sup> International DAAAM Symposium, Volume 20, No. 1, ISSN 1726-9679, ISBN 978-3-901509-70-4 25-28<sup>th</sup> November 2009, Vienna, Austria, Editor: Branko Katalinic, Published by DAAAM International Vienna, Austria, pp. 0747-0748.
102. **Teodorescu-Drăghicescu, H.**, Vlase, S., Chiru, A., Roșu, D., Scutaru, M.L., Secară, E. – Simulation of Elastic Properties of Sheet Molding Compounds. Recent Advances in Applied Mathematics. Proceedings of the AMERICAN CONFERENCE on APPLIED MATHEMATICS (AMERICAN-MATH'10), Harvard University,

- Cambridge, USA, January 27-29, 2010, Stephen Lagakos, Leonid Perlovsky, Manoj Jha, Brindusa Covaci, Azami Zaharim, Nikos Mastorakis (Eds.), WSEAS Press, ISBN: 978-960-474-150-2, ISSN: 1790-2768, pp. 642-646.
103. **Teodorescu-Draghicescu, H.**, Vlase, S., Motoc, D.L., Chiru, A. – Thermomechanical Response of a Thin Sandwich Composite Structure. *Engineering Letters*, Vol. 18, Issue 3, September 2010, Publisher: Newswood Limited (for the International Association of Engineers), Hong Kong, ISSN: 1816-093X (print version); ISSN: 1816-0948 (online version), p. 273-278.
104. M.L. Scutaru, C. Cofaru, **H. Teodorescu-Drăghicescu**, J. Timar - Properties of Advanced New Hemp Fiber Materials Used in Automotive Engineering. Proceedings of the 4th International Conference on Automotive and Transportation Systems (ICAT '13), *ADVANCES in PRODUCTION, AUTOMATION and TRANSPORTATION SYSTEMS*, Brasov, Romania, June 1-3, 2013, WSEAS Press, ISSN: 2227-4588, ISBN: 978-1-61804-193-7, p. 365-368.

### **OTHER PAPERS / RELEVANT ACHIEVEMENTS**

1. Goia, I., Ulea, M., **Teodorescu-Drăghicescu, H.**, Roșu, D. – Aspecte ale ruperii la oboseală a materialelor compozite tenace și fragile. *Al IX-lea Simpozion Național de Mecanica Ruperii*, Mediaș, 31 octombrie – 01 noiembrie 2003, p. A64 – A69.
2. Roșu, D., **Teodorescu, H.**, Goia, I. – Structură compozită rigidă tip sandwich. O abordare teoretică și o comparație. *Lucrările sesiunii științifice Construcției-Instalații CIB 2004*, Brașov, 18 - 19 noiembrie 2004, Editura Universității Transilvania, Brașov, pag. 63 – 68.
3. Goia, I., Tofan, M., Guiman, V., Vasii, M., **Teodorescu-Drăghicescu, H.** – The Construction and Calculus of the Tubular Pole. The XXXth National Conference of Solid Mechanics MECSOL 2006, Romanian Academy of Technical Sciences ASTR and Constanța Maritime University CMU, Year VII, Vol. 9, Constanța, 15-16 sept. 2006, ISSN 1582 – 3601, p. 217 – 222.
4. Goia, I., Roșu, D., **Teodorescu-Drăghicescu, H.** – Failure analysis of an advanced sandwich composite structure subjected to tensile and bending loads. *Lucrările celui de-al XII-lea Simpozion Național de Mecanica Ruperii*, 3 – 4 noiembrie 2006, Universitatea “Valahia” Târgoviște, ISBN (10) 973-7616-48-0, ISBN (13) 978-973-7616-48-7, p. 121 – 126.
5. Scutaru, L., Vlase, S., **Teodorescu-Drăghicescu, H.** – Research Concerning Thermal Loss Calculation. *Annals of the Oradea University. Fascicle of Management and Technological Engineering*, Vol. VI (XVI), 2007, Editura Universității din Oradea, ISSN 1583-0691, CNCSIS “Clasa B+”, p. 73.
6. Scutaru, L., Vlase, S., **Teodorescu-Drăghicescu, H.** – Aspects Concerning the Thermic Transfer Through Insulated Panels used in Housing Construction. *Annals of the Oradea University. Fascicle of Management and Technological Engineering*, Vol. VI (XVI), 2007, Editura Universității din Oradea, ISSN 1583-0691, CNCSIS “Clasa B+”, p. 74.
7. Rosu, D., Goia, I., **Teodorescu-Draghicescu, H.** – Failure Modes of an Advanced Sandwich Structure Subjected to Tensile and Bending Loads. *Lucrările celui de-al XIV-lea Simpozion Național de Mecanica Ruperii*, 10-11 Octombrie 2008, Brașov, ISSN 1453-6536, p. 33 – 38.

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