



Curriculum vitae
Europass

Informații personale

Nume și prenume

Adresă

E-mail(uri)

Naționalitate

Zi de naștere

Sex

Activitate profesională



CRĂCIUN EDUARD-MARIUS

mcraciun@univ-ovidius.ro

Profesor Dr. Matem. Habil. Ing., Facultatea de Inginerie Mecanică, Industrială și Maritimă
1 Oct 2015 – prezent;

Profesor, Universitatea „Ovidius” Constanța, Facultatea de Matematică și Informatică, 2004;

Conferențiar, Universitatea „Ovidius” Constanța, Facultatea de Matematică și Informatică,
2000 - 2004;

Cercetător științific, "Gheorghe Mihoc-Caius Iacob" Institute of Mathematical Statistics
and Applied Mathematics of ROMANIAN ACADEMY", București, 1999 - 2004;

Lector, Universitatea „Ovidius” Constanța, Facultatea de Matematică și Informatică, 1996-
2000;

Asistent universitar, Universitatea „Ovidius” Constanța, Facultatea de Matematică și Informatică,
1991-1996;

Profesor titular, Liceul "Mircea Eliade", București, 1990-1991;

Asistent universitar, Universitatea „Politehnică” din București, Departamentul de Matematici
I, 1990-1991.

Educație

1986 -1990 - Facultatea de Matematică și Mecanică, spec. Matematică-Mecanică, Universitatea din
București;

1999 - Facultatea de Matematică și Mecanică, spec. Matematică-Mecanică, Universitatea din
București. Teză de doctorat: *Criterii de propagare ale fisurilor*;

2011 - Facultatea de Mecanică și Tehnologie, Universitatea din Pitești;

2014- Facultatea de Matematică și Informatică, Universitatea din București, Teză de abilitare:
Mathematical modeling of crack propagation;

Limbă nativă

Română

Limbi străine

Engleză, Franceză

Funcții îndeplinite	<ul style="list-style-type: none"> • Secretar Științific al Facultății de Matematică și Informatică, 2000 - 2008. • Membru al Senatului UOC, 2000 - 2008, 2014-prezent. • Membru al Comisiei de Etică a UOC, 2012-2014. • Președinte al Comisiei de acordare a titlurilor onorifice a Senatului UOC, 2014-prezent.
Experiințe în învățământ	Mecanică Teoretică, Mecanică, Mecanică Analitică, Mecanică Tehnică, Mecanică Computațională, Mecanica Ruperii, Mecanica Mediilor Continue, Astronomie, Calculus I, II, Matematică Superioară pentru Ingineri, Matematici Aplicate în Economie, Analiză Numerică.
Premii pentru cercetare	<p>Premiul Academiei Române Spiru Haret – 19 Decembrie 2007,</p> <ul style="list-style-type: none"> • Facultatea de Matematică și Informatică, Premiu pentru activitate științifică Constanța (2010); • Premii CNCIS, UEFISCDI ISI (2007); (2008); (2014); (2015); (2017); (2018). • Grant Abilitare UEFISCDI (2015);
Membru:	<i>Mathematical Society of Romania; ESIS; GAMM; Euromech, AMS; Comisia de Matematica a CNATDCU.</i>
Membru în board-ul editorial al următoarelor jurnale ISI:	<p><i>Analele Universității din Constanța - Seria Matematica (2015 Impact Factor: 0,383);</i> <i>Mechanics of Composite Materials (2015 Impact Factor: 0,729);</i> <i>Budownikwo i Architektura, Politechnika Lubelska, Lublin, Polonia.</i></p>
Editorial responsibilities	<ol style="list-style-type: none"> 1. Editor al volumului <i>Lucrările celei de a-XXV-a Conferințe Naționale de Mecanica Solidelor</i>, Supliment la vol. 9, fasc. 2- <i>Analele Universității "Ovidius" Constanța- seria Matematica</i>, "Ovidius" University Press, Constanța, 2001; 2. Guest Editor <i>Computational Material Science (Selected papers from IWCM 19, 1-4-th Sept. 2009)</i> vol. 50 (4) Februarie 2011.
Referent	<ol style="list-style-type: none"> 1. Referent pentru <i>Computational Material Science</i>, (15 reviews), 2005-2018; 2. Referent pentru <i>Analele Universității din Constanța - Seria Matematica</i> (15 reviews), 2005 - 2018; 3. Referent pentru <i>ZAMM</i> (13 reviews), 2006-2018; 4. Referent pentru <i>Composites Science and Technology</i>, (1 review), 2008; 5. Referent pentru <i>Engineering Fracture Mechanics</i>, (1 review), 2008; 6. Referent pentru <i>KEM, Trans. Tech. Publications</i>, (4 reviews), 2009, 2015; 7. Referent pentru <i>Book of Proceedings of 5-th GCM International Seminar</i>, Romanian Academy Publishing House, (2 reviews), 2001; 8. Referent pentru <i>International Journal of Solides and Structures</i>, (2 reviews), 2014; 2016 9. Referent pentru <i>Proceedings A Royal Society-Mathematical, Physical and Engineering Sciences</i>, (3 reviews), 2014-2018; 10. Referent pentru <i>Boundary Value Problems</i>, (20 reviews), 2014- 2018; 11. Referent pentru <i>Meccanica</i>, (5 reviews), 2014- 2016; 12. Referent pentru <i>Mechanics of Composites Materials</i>, (9 reviews), 2014-2018; 13. Referent pentru <i>Mathematics and Mechanics of Solids</i>, (2 reviews), 2015; 14. Referent pentru <i>Mechanics Research Communications</i>, (1 review), 2015; 15. Referent pentru <i>Complex Variables and Elliptic Equations</i>, (1 review), 2015; 16. Referent pentru <i>Journal of Elasticity</i>, (3 reviews), 2015-2018; 17. Referent pentru <i>Mathematical Reviews</i>, (30 reviews), 2015-2018; 18. Referent pentru <i>Polytechnic & Design</i>, (1 review), 2015; 19. Referent pentru <i>International Journal of Fracture</i>, (2 reviews), 1999; 20. Referent pentru <i>Theoretical and Applied Fracture Mechanics</i>, (2 review), 2015;
Contracte de cercetare; Granturi	<p>INTERNATIONALE</p> <ol style="list-style-type: none"> 1. Consultant expert in : 7th Framework Programme of European Union: Call: FP-7REGPOT – 2009 – 1: Unlocking and developing the Research Potential of research entities established in EU's Convergence Regions and Outermost regions Title: "Centre of excellence for modern composites applied in aerospace and surface transport" Contract Nr. FP-7- 2457: Acronym CEMCAST, Co-ordinator: Prof. Tomaz

2. Advanced researcher in:

6th Framework Programme of European Union:

Structuring the European Research Area - HUMAN RESOURCES AND MOBILITY: ToK Marie Curie Fellowship for Transfer of Knowledge (Host Action)

Title: "Modern Composites Materials Applied in Aerospace, Civil and Mechanical Engineering: Theoretical Modelling and Experimental Verification"

Contract Nr. MTKD-CT-2004-014058, Acronim MCMACM, Co-ordinator: Prof. Tomasz Sadowski, Period: 1.04.2005-31.03.2009, Funds: 1 mln 64 000 EUR.

NAȚIONALE

Director:

1. GAR. 10/2006, Academia Română, "Modelare matematică și simularea fenomenului de propagare a fisurii în regim dinamic în materiale compozite (II)".
2. GAR. 96/2005, Academia Română, "Modelare matematică și simularea fenomenului de propagare a fisurii în regim dinamic în materiale compozite (I)".
3. GAR 68/2001, Academia Română, "Ruperea materialelor termoelastice (I)".
4. GAR 48/2002, Academia Română, "Ruperea materialelor termoelastice (II)".

Membru al echipelor de cercetare:

1. Grant CEEX "Modelare matematică în procese de difuzie".
2. Nr. 4073 GR/1998-1999 ANSTI "Criterii energetice în mecanica rupei fragile".
3. Nr. 1108/1993 cu MI și MCT "Determinarea condițiilor de stabilitate a sistemelor elastice la strunjirea pieselor de mari dimensiuni".
4. Nr. 2486/1992 cu MI și MCT "Modele matematice în dinamica rigidului și fluidelor".
5. Nr. 2474/1992 cu MIS "Aspecte teoretice privind bilanțul energetic în instalațiile de ignifugare a lemnului".

Prezentări la conferințe și congrese
internationale

1. Internaționale: peste 35;
2. Naționale: peste 25.

Conferințe invitate

1. Dept. of Mechanical and Structural Engineering, University of Trento Italy, 11-th February 2015, Mathematical modeling of bridge cracks propagation.
2. Facultatea de Matematică și Informatică, Universitatea București, 2004, 2012, 2014.
3. Dept. of Mechanical and Structural Engineering, University of Trento Italy, 14-th July 2004, Fracture mechanics of pre-stressed elastic composites: incremental fields representation using complex potentials.
4. Faculty of Mechanical Engineering, Polytechnical University of Białystok, Poland, 24-th November 2005, Mathematical modeling of fracture of the pre-stressed elastic composites.

Grant-uri, Burse de cercetare

1. Brașov - Universitatea Transilvania - Școala de vară de Mecanica Solidelor, în cadrul Programului TEMPUS, 20 august - 5 septembrie 1994 (organizată de prof. C.Predeleanu de la Universitatea Paris VI).
2. International Centre of Mechanical Sciences, Udine, ITALY: "Modelling and analysis of reinforced concrete structures for dynamic loading", 28 iunie-5 iulie 1993.
3. NATO-CNR Fellowship - Department of Structural Mechanics - Univ Trento, Italia, 1 iunie -31 iulie 2004.
4. FP7-PEOPLE-IDEAS-ERC-2013-AdG (2014-2019), Univ. Trento, Italia, Department of Structural Mechanics, Advanced Researcher in ERC Advanced Grant "Instabilities and nonlocal multiscale modelling of materials", 1 Februarie 2015 -15 Februarie 2015.

Noiembrie 2018

LISTA DE LUCRARI

Prof. univ. dr. habil. EDUARD-MARIUS CRACIUN

Lucrări publicate în reviste cotate ISI

Citarile (cu verde) sunt independente în reviste ISI

Cel mai favorabil FI și SI din ultimii 5 ani;

Nr. crt.	Lucrare (autori / titlu / revista, număr, pag. început-sfârșit, anul) Citări (pentru Nr. citări diferit de zero, excluzând citările proprii)	FI/ Zona UEFISCDI	SI/nr aut	Nr. aut ori
1.	A. Singh, S.Das, <u>E-M Craciun</u> , <i>The effect of thermo-mechanical loading on the edge crack of finite length in an infinite orthotropic strip</i> , Mechanics of Composite Materials, in press, 55(2019)	2016/17 0.834	2016 0.631/3= 0.210	3
2.	A. Singh, S.Das, <u>E-M Craciun</u> , <i>Thermal stress intensity factor for an edge crack in orthotropic composite media</i> , Composites Part B, 153(15), 130-136, (2018)	2016/17 4.727 Zona Rosie	2016 3.227/3= 1,076	3
3.	M. Marin, <u>E.M. Craciun</u> , <i>Uniqueness results for a boundary value problem in dipolar thermoelasticity to model composite materials</i> , Composites Part B, 126(1), 27-37, (2017)	2016/17 4.727 Zona Rosie	2016 3.227/2= 1,614	2
4.	T. Sadowski, L. Marsavina, <u>E- M. Craciun</u> , <i>Cracking of two-phase ceramics under uniaxial compression deformation</i> Engineering Transactions, 65 (1), 39-44, (2017)			3
	1. Golewski, G. I., T. Sadowski. (2017). A failure analysis of concrete composites incorporating fly ash during torsional loading. <i>Composite Structures</i> , 183(1): 527-535. 2. Golewski, Grzegorz Ładwik. (2018). Effect of curing time on the fracture toughness of fly ash concrete composites. <i>Composite Structures</i> 183: 103-112	2017/ 3.858 2017/ 3.858	2014/ 3.504 2017/ 3.336 2014/ 3.504 2017/ 3.336	
5.	M. Marin, <u>E.M. Craciun</u> , N Pop, <i>Consideration on mixed initial-boundary value problems for micropolarporous bodies</i> , Dynamic Systems and Applications, 25, p. 175 – 196, (2016).	2012/ 0.395 Zona Alba	2014/0.456 2017/0.269	3
	1. Zhang, T., Jin, J., & Xu, S. (2016). The Euler implicit/explicit scheme for the Boussinesq equations. <i>Boundary Value Problems</i> , 2016(1), 181. 2. Amanov, D. (2016). On a generalization of the Dirichlet problem for the Poisson equation. <i>Boundary Value Problems</i> , 60. 3. Popivanov, Nedyu, et al. (2017): On the existence and uniqueness of a generalized solution of the Protter problem for (3+ 1)-D Keldysh-type equations. <i>Boundary Value Problems</i> , 26. 4. Li, Haixin, and Yuzhu Han. (2017): Blow-up of solutions to a viscoelastic parabolic equation with positive initial energy. <i>Boundary Value Problems</i> , 89.	2014/ 1.014 2014/ 1.014 2014/ 1.014 2014/ 1.014	2013/ 0.752 2013/ 0.752 2013/ 0.752 2013/ 0.752	
6.	T. Sadowski, <u>E- M. Craciun</u> , A. Răbăcea, L. Marsavina, <i>Mathematical modeling of three equal collinear cracks in an orthotropic solid</i> . MECCANICA, 51, (2), p. 329 –339 (2016).	2014/ 1.949 Zona Rosie	2016/ 2.196/4= 0.549	4
	1. Fan, Y., Zhu, Z., Kang, J., & Fu, Y. (2016). The mutual effects between two	2015/ 1.836	2015/ 1.383	

	<p>unequal collinear cracks under compression. <i>Mathematics and Mechanics of Solids</i>, 22(5), 1081286515625436.</p> <p>2. Lacki, Piotr, Anna Derluka, and Przemyslaw Kasza. (2017). Comparison of steel-concrete composite column and steel column. <i>Composite Structures</i>.</p> <p>3. Wang, Anzhe, et al. (2017). Effect of collinear flaws on flexural strength and fracture behavior of ZrB₂-SiC ceramic. <i>Ceramics International</i> 43.16 14488-14492.</p> <p>4. Mishra, P. K., P. Singh, and S. Das. (2017): Interaction of Three Interfacial Cracks between an Orthotropic Half-Plane Bonded to a Dissimilar Orthotropic Layer with Punch. <i>Zeitschrift für Naturforschung A</i> 72.11 1021-1029.</p>	2017/ 3.858	2014/ 3.504 2017/ 3.336	
7.	<p><u>E.-M. Craciun</u>, L Barbu, <i>Compact closed form solution of the incremental plane states in a prestressed elastic composite with an elliptical hole</i>, Z. Angew. Math. Mech., ZAMM, 95, (2), p. 193 – 199 (2015).</p>	2015/ 1.293 <i>Zona</i> <i>Galbenă</i>	2016/ 1.207/2= 0.603	2
	<p>1. Malkov, V., & Malkova, Y. (2015, February). The state of stress of bi-material plate with an elliptic hole. In <i>Mechanics-Seventh Polyakhov's Reading, 2015 International Conference on</i> (pp. 1-4). IEEE.</p> <p>2. Петрухин, Р. Р., & Ruslan, P. (2016). Stress analysis of bi-material plate with an elliptic hole.</p> <p>3. Матков, В. М., Малькова, Ю. В., & Петрухин, Р. Р. (2016). Взаимодействие эллиптического отверстия с межфазной границей двух полуплоскостей. <i>Вестник Санкт-Петербургского университета. Серия 10. Прикладная математика. Информатика. Процессы управления</i>, (3).</p> <p>4. Mal'kov, V. M., Mal'kova, Y. V., & Petrukhin, R. R. (2016). Interaction of an elliptic hole with an interface of two bonded half-planes. <i>Vestnik Sankt-Peterburgskogo Universiteta. Seriya 10. Prikladnaya Matematika. Informatika. Protsessy Upravleniya</i>, (3), 73-87.</p>			
8.	<p><u>E.-M. Craciun</u>, T. Sadowski, A. Rabaea, <i>Stress concentration in an anisotropic body with three equal collinear cracks in Mode II of fracture. I. Analytical study</i>, Z. Angew. Math. Mech, ZAMM, 94 (9), p.721-729, (2014).</p>	2015/ 1.293 <i>Zona</i> <i>Galbenă</i>	2016/ 1.207/3= 0.402	3
	<p>1. Fan, Y., Zhu, Z., Kang, J., & Fu, Y. (2017). The mutual effects between two unequal collinear cracks under compression. <i>Mathematics and Mechanics of Solids</i>, 22, (5), 1081286515625436.</p> <p>2. Mishra, P. K., P. Singh, and S. Das. (2017): Interaction of Three Interfacial Cracks between an Orthotropic Half-Plane Bonded to a Dissimilar Orthotropic Layer with Punch. <i>Zeitschrift für Naturforschung A</i> 72.11 1021-1029.</p>	2015/ 1.836 2017/ 1.432	2015/ 1.383 2017/ 0.659	
9.	<p>L. Marsavina, A. D. Nurse, L. Braescu, <u>E. M. Craciun</u>, <i>Stress singularity of symmetric free-edge joints with elasto-plastic behaviour</i>, Comp. Mat. Sci., 52(1), p. 231-235, (2012).</p>	2013/ 2.131 <i>Zona</i> <i>Galbenă</i>	2017/ 1.533/4= 0.383	3
	<p>1. Sinescu, C., Marsavina, L., & Cernescu, A. (2012). Asymptotic stress field for the interface between teeth and different restorative materials. <i>Computational Materials Science</i>, 59, 57-64.</p> <p>2. Deguenon, J., & Barbulescu, A. (2013). Attachment observability of a rotating body-beam. <i>Analele Universitatii "Ovidius" Constanta-Seria Matematica</i>, 21(3), 81-94.</p> <p>3. Rakin, M., Medjo, B., Gubeljak, N., & Sedmak, A. (2013). Micromechanical assessment of mismatch effects on fracture of high-strength low alloyed steel welded joints. <i>Engineering Fracture Mechanics</i>, 109, 221-235.</p> <p>4. Arabi, H., Mirsayar, M. M., Samaei, A. T., & Darandeh, M. (2013). Study of characteristic equation of the elastic stress field near bimaterial notches. <i>Strength of Materials</i>, 45(5), 598-606.</p> <p>5. Van Lich, L. (2013). Plastic stress singularity near interface edge of elasto-plastic/elastic bi-material. <i>Computational Materials Science</i>, 78, 140-146.</p> <p>6. Zappalorto, M., & Kujawski, D. (2015). Neuber's rules and other solutions: theoretical differences, formal analogies and energy interpretations. <i>Theoretical and Applied Fracture Mechanics</i>, 79, 2-13.</p> <p>7. Huang, Kai, et al. (2017) Crack initiation at interface edge by nanometer scale plastic stress intensity. <i>Engineering Fracture Mechanics</i> 178, 392-400.</p> <p>8. Younise, B., et al. (2017) Effect of material heterogeneity and constraint conditions on ductile fracture resistance of welded joint zones-Micromechanical assessment." <i>Engineering Failure Analysis</i> 82, 435-445.</p>	2015/ 2.024 2015/ 0.462 2013/ 2.131 2015/ 2.025 2013/ 2.131 2016/ 0.383 2017/ 2.151 2017/1.676	2015/ 1.529 2015/ 0.405 2016/ 1.526 2015/ 1.549 2015/ 1.526 2016/ 0.193 2017/ 1.506 2017/0.994	

10.	T. Sadowski, L. Marsavina, <u>E.-M. Craciun</u> , M. Kneć. <i>Modelling and experimental study of parallel cracks propagation in an orthotropic elastic material</i> , Comp. Mat. Sci., 52(1), p. 282-286, (2012).	2013/ 2.131 Zona Galbena	2017/ 1.533/4= 0.383	4
	<ol style="list-style-type: none"> 1. Chirica, I., & Beznea, E. F. (2012). Buckling behavior of the multiple delaminated composite plates under shear and axial compression. <i>Computational Materials Science</i>, 64, 173-178. 2. Adamus, J., & Lacki, P. (2014). Analysis of forming titanium welded blanks. <i>Computational Materials Science</i>, 94, 66-72. 3. Bratu, V., Mortici, C., Oros, C., & Ghiban, N. (2014). Mathematical model of solidification process in steel continuous casting taking into account the convective heat transfer at liquid-solid interface. <i>Computational Materials Science</i>, 94, 2-7. 4. Meunier, T., Gopalakrishnan, S. G., & Weck, A. (2013). Plane stress local failure criterion for polycarbonate containing laser drilled microvoids. <i>Polymer</i>, 54(5), 1530-1537. 5. Adamus, J., & Lacki, P. (2016). Numerical simulation of forming titanium drawn part. <i>Meccanica</i>, 51(2), 391-400. 6. Beznea, E. F., Vasilache, C. A., & Chirica, I. (2012). FEM BUCKLING BEHAVIOR STUDIES ON COMPOSITE PLATES WITH INITIAL IMPERFECTIONS, COMAT 2012, 183-188, http://hdl.handle.net/123456789/1233. 7. Mitrovic, N. R., Petrovic, A. I., Milosevic, M. S., Momeilovic, N. V., Miskovic, Z. Z., Maneski, T. D., & Popovic, P. S. (2012). Experimental and numerical study of globe valve housing. <i>ACHe Hemijka Industrija</i>, 1-25. 8. Graziani, L., Kneć, M., Sadowski, T., D'Orazio, M., & Lenci, S. (2014). Measurement of R-curve in clay brick blocks using optical measuring technique. <i>Engineering Fracture Mechanics</i>, 121, 1-10. 9. Mishra, P. K., Das, S., & Gupta, M. (2016). Interaction between interfacial and sub-interfacial cracks in a composite media-Revisited. <i>ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik</i>. 	2013/ 2.131 2013/ 2.131 2013/ 2.131 2015/ 3.586 2014/ 1.949 2015/ 2.024 2015/ 1.293	2015/ 1.526 2015/ 1.526 2016/ 1.526 2014/ 2.990 2015/ 0.925 2015/ 1.529 2016/ 1.207	
11.	L. Marsavina, <u>E.-M. Craciun</u> , <i>The asymptotic stress field for free edge joints under small-scale yielding conditions</i> , An. St. Univ. "Ovidius" Constanta, seria Matem. 17(3), p.171-181 (2009).	2016/ 0.383 Zona Alba	2016/ 0.193	2
	<ol style="list-style-type: none"> 1. Marsavina, L., Nurse, A. D., Brăescu, L., & Craciun, E. M. (2012). Stress singularity of symmetric free-edge joints with elasto-plastic behaviour. <i>Computational Materials Science</i>, 52(1), 282-286. 2. Van Lich, L. (2013). Plastic stress singularity near interface edge of elasto-plastic/elastic bi-material. <i>Computational Materials Science</i>, 78, 140-146. 3. Ibrahim, R. W., Jalab, H. A., & Gani, A. (2016). Entropy solution of fractional dynamic cloud computing system associated with finite boundary condition. <i>Boundary Value Problems</i>, 2016(1), 1-12. 	2015/ 2.131 2015/ 2.131 2014/ 1.014	2015/ 1.526 2015/ 1.526 2013/ 0.752	
12.	T. Sadowski, L. Marsavina, N. Peride, <u>E.-M. Craciun</u> , <i>Cracks propagation and interaction in an orthotropic elastic material: Analytical and numerical methods</i> , Comp. Mat. Sci., 46(3), p. 687-693, (2009).	2013/ 2.131 Zona Galbena	2017/ 1.533/4= 0.383	4
	<ol style="list-style-type: none"> 1. Sadowski, T., & Golewski, P. (2011). Multidisciplinary analysis of the operational temperature increase of turbine blades in combustion engines by application of the ceramic thermal barrier coatings (TBC). <i>Computational Materials Science</i>, 50(4), 1326-1335. 2. Sadowski, T., & Golewski, P. (2012). The influence of quantity and distribution of cooling channels of turbine elements on level of stresses in the protective layer TBC and the efficiency of cooling. <i>Computational Materials Science</i>, 52(1), 293-297. 3. Sadowski, T., & Golewski, P. (2012). Detection and numerical analysis of the most efforted places in turbine blades under real working conditions. <i>Computational Materials Science</i>, 64, 285-288. 4. Sadowski, T., Golewski, P., & Kneć, M. (2014). Experimental investigation and numerical modelling of spot welding-adhesive joints response. <i>Composite structures</i>, 112, 66-77. 5. Chirica, I., & Beznea, E. F. (2012). Buckling behavior of the multiple delaminated composite plates under shear and axial compression. <i>Computational</i> 	2013/ 2.131 2013/ 2.131 2013/ 2.131 2015/ 3.853 2013/ 2.131	2015/ 1.526 2015/ 1.526 2016/ 1.526 2015/ 3.504 2016/ 1.526	

	<i>Materials Science</i> , 64, 173-178.			
6.	Sadowski, T., & Golewski, P. (2013). Numerical study of the prestressed connectors and their distribution on the strength of a single lap, a double lap and hybrid joints subjected to uniaxial tensile test. <i>Archives of Metallurgy and Materials</i> , 58(2), 579-585.	2014/ 1.090	2014/ 0.469	
7.	Sadowski, T., & Golewski, P. (2012). The analysis of heat transfer and thermal stresses in thermal barrier coatings under exploitation. In <i>Defect and Diffusion Forum</i> (Vol. 326, pp. 530-535). Trans Tech Publications.			
8.	Sadowski, T., & Golewski, P. (2013). Heat transfer and stress concentrations in a two-phase polycrystalline composite structure. Part I: Theoretical modelling of heat transfer. <i>Materialwissenschaft und werkstofftechnik</i> , 44(5), 497-505.	2012/ 0.505	2014/ 0.350	
9.	Sadowski, T., & Zarzeka-Raczowska, E. (2012). Hybrid Adhesive Bonded and Riveted Joints-Influence of Rivet Geometrical Layout on Strength of Joints/Połączenia Hybrydowe Klejowo-Nitowe-Wpływ Geometrii Rozmieszczenia Nitów Na Wytrzymałość Połączeń. <i>Archives of Metallurgy and Materials</i> , 57(4), 1127-1135.	2014/ 1.090	2014/ 0.469	
10.	Sadowski, T., Birsan, M., & Pietras, D. (2015). Multilayered and FGM structural elements under mechanical and thermal loads. Part I: Comparison of finite elements and analytical models. <i>Archives of Civil and Mechanical Engineering</i> , 15(4), 1180-1192.	2015/ 2.194	2016/ 1.400	
11.	Eskandari-Ghadi, M., Ardeshtir-Behrestaghi, A., & Neya, B. N. (2013). Mathematical analysis for an axisymmetric disc-shaped crack in transversely isotropic half-space. <i>International Journal of Mechanical Sciences</i> , 68, 171-179.	2014/ 0.838	2016/ 0.612	
12.	Skrinar, M. (2013). Computational analysis of multi-stepped beams and beams with linearly-varying heights implementing closed-form finite element formulation for multi-cracked beam elements. <i>International Journal of Solids and Structures</i> , 50(14), 2527-2541.	2014/ 2.214	2015/ 1.972	
13.	Sadowski, T., & Golewski, P. (2014). Effect of tolerance in the fitting of rivets in the holes of double lap joints subjected to uniaxial tension. In <i>Key Engineering Materials</i> (Vol. 607, pp. 49-54). Trans Tech Publications.	2014/ 0.41	0	
14.	Sadowski, T., & Kneć, M. (2013). Application of Dic Technique for Monitoring of Deformation Process of Spr Hybrid Joints/Zastosowanie Techniki Dic Do Obserwacji Procesu Deformacji Hybrydowych Połączeń Typu Spr. <i>Archives of Metallurgy and Materials</i> , 58(1), 119-125.			
15.	Rakshit, D., & Chakraborty, S. (2013). Determination of fracture parameters of FRP composites: A combined experimental and numerical investigation. <i>Journal of Composite Materials</i> , 0021998313516142.	2015/ 2.194	2016/ 1.4	
16.	Sadowski, T., & Golewski, P. (2015). Description of non-stationary heat transfer in two-phase polycrystalline metal-ceramic composites. <i>Acta Phys. Pol. A</i> , 128(4), 624-628.	2015/ 1.242	2014/ 1.455	
17.	Sadowski, T., & Golewski, P. (2015). The Influence of Geometrical Parameters in Socket-Pin Connections on the Value of Opening Force/Wpływ Parametrów Geometrycznych W Połączeniach Typu Gniazdo-Trzpień Na Wartość Siły Otwierającej. <i>Archives of Metallurgy and Materials</i> , 60(4), 2743-2750.	2013/ 0.604	2014/ 0.321	
18.	DUMITRACHE, P. ABOUT THE NUMERICAL SIMULATION FOR THE BEHAVIOUR OF THE SHOCK-ABSORBING ASSEMBLIES WITH RUBBER COMPONENTS, USING FINITE ELEMENT METHOD. <i>ACTA TECHNICA NAPOCENSIS 53, Vol. II APPLIED MATHEMATICS AND MECHANICS</i> , 2(53).	2014/ 1.090	2014/ 0.469	
19.	Bidokhti, A. A., & Shahani, A. R. (2015). Interaction Analysis of Non-aligned Cracks Using Extended Finite Element Method. <i>Latin American Journal of Solids and Structures</i> , 12(13), 2439-2459.	2014/ 1.272	2014/ 1.131	
20.	Sadowski, T., & Golewski, P. (2015). Skew Bending of Aircraft Fuselage Panels with "L" and "C" Stringers Mounted by Hybrid Joint/Ukośne Zginanie Poszycia Samolotu ZU Szytywnieniami Typu "L" I "C", Mocowanymi Za Pomocą Złącza Hybrydowego. <i>Archives of Metallurgy and Materials</i> , 60(4), 2813-2820.	2014/ 1.090	2014/ 0.469	
21.	Bogdanova, O. S. (2012). Influence of the anisotropy of the material on the limit state of an orthotropic plate weakened by a periodic system of collinear cracks. <i>Journal of Mathematical Sciences</i> , 184(2), 136-144.			
22.	Sadowski, T., & Kneć, M. (2012). Experimental Study of Bimaterial Shear Strength and Strain Concentrations by Iosipescu Based Test Using Digital Image Correlation System. In <i>Solid State Phenomena</i> (Vol. 188, pp. 226-231). Trans Tech Publications.	2012/ 0.194	0	
23.	Sadowski, T., & Golewski, P. (2016, April). The use of experimental bending tests to more accurate numerical description of TBC damage process. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 123, No. 1, p.			

	012017). IOP Publishing. 24. SADOWSKI, T., & GOLEWSKI, P. (2015). UKOŚNE ZGINANIE POSZYCIA SAMOLOTU Z USZTYWNIENIAMI TYPU "L" I "C", MOCOWANYMI ZA POMOCĄ ZŁACZA HYBRYDOWEGO. <i>ARCHIVES OF METALLURGY AND MATERIALS</i> , 60(4). 25. E-G, Morteza, A A-Behrestaghi, and R YS Pak (2017): Bi-material transversely isotropic half-space containing penny-shaped crack under time-harmonic horizontal loads. <i>Engineering Fracture Mechanics</i> 172 152-180.	2014/ 1.090 2017/ 2.151	2014/ 0.469 2017/ 1.506	
13.	Carabineanu, N. Peride, E. Rapeanu, <i>E.M. Craciun</i> , <i>Mathematical modelling of the interface crack. A new improved numerical model</i> , <i>Comp. Mat. Sci.</i> , 46(3), p. 677-681, (2009).	2013/ 2.131 Zona Galbena	2017/ 1.533/4= 0.383	4
	1. Bratu, V., Mortici, C., Oros, C., & Ghiban, N. (2014). Mathematical model of solidification process in steel continuous casting taking into account the convective heat transfer at liquid-solid interface. <i>Computational Materials Science</i> , 94, 2-7. 2. Adamus, J., & Motyka, M. (2014). Analysis of tensile test of titanium EBW sheet. <i>Key Engineering Materials</i> , 639. 3. Anghelina, F. V., Popescu, I. N., Bratu, V., Anghelina, C. C., & Rusanescu, C. O. (2014). Physical-mathematical model of Lorentz factor for the integrated intensity of single crystal diffraction. <i>Computational Materials Science</i> , 94, 234-239. 4. Perez, N. (2017). Linear-Elastic Field Equations. In <i>Fracture Mechanics</i> (pp. 131-185). Springer International Publishing. 5. Sadowski, T., & Kneć, M. (2012). Experimental Study of Bimaterial Shear Strength and Strain Concentrations by Iosipescu Based Test Using Digital Image Correlation System. In <i>Solid State Phenomena</i> (Vol. 188, pp. 226-231). Trans Tech Publications.	2013/ 2.131 2014/ 0.41 2013/ 2.131	2015/ 1.526 0 2015/ 1.526	
14.	N. Peride, A. Carabineanu, <i>E.M. Craciun</i> , <i>Mathematical modelling of the interface crack propagation in a pre-stressed fiber elastic composite</i> , <i>Comp. Mat. Sci.</i> , 45(3), p. 684-692, (2009).	2013/ 2.131 Zona Galbena	2017/ 1.533/3= 0.511	3
	1. Lacki, P., Adamus, K., & Wiecek, P. (2014). Theoretical and experimental analysis of thermo-mechanical phenomena during electron beam welding process. <i>Computational Materials Science</i> , 94, 17-26. 2. Adamus, J., & Lacki, P. (2014). Analysis of forming titanium welded blanks. <i>Computational Materials Science</i> , 94, 66-72. 3. Marsavina, L., Sadowski, T., & Kneć, M. (2013). Crack propagation paths in four point bend Aluminium-PMMA specimens. <i>Engineering Fracture Mechanics</i> , 108, 139-151. 4. Sadowski, T., & Kneć, M. (2012). Experimental Study of Bimaterial Shear Strength and Strain Concentrations by Iosipescu Based Test Using Digital Image Correlation System. In <i>Solid State Phenomena</i> (Vol. 188, pp. 226-231). Trans Tech Publications.	2013/ 2.131 2013/ 2.131	2015/ 1.526 2015/ 1.526	
15.	N. Peride, <i>E.M. Craciun</i> , A. Carabineanu, L. Marsavina, <i>Mixed mode crack propagation in advanced materials</i> , <i>J. Optoelectron. Adv. Mater.</i> 10 (11), p. 2870-2876, (2008).	2013/ 0.563 Zona Alba	2012/ 0.331	4
16.	L. Marsavina, <i>E.M. Craciun</i> , R.A. Tomlinson, <i>Combining thermo-photo elasticity for analysis of cracked bodies</i> , <i>J. Optoelectron. Adv. Mater.</i> , 10 (11), p. 2876-2883, (2008).	2013/ 0.563 Zona Alba	2012/ 0.331	3
17.	<i>E. M. Craciun</i> , A. Carabineanu, N. Peride, <i>Antiplane interface crack in a pre-stressed fiber-reinforced elastic composite</i> , <i>Comp. Mat. Sci.</i> , 43(1), p. 184-189, (2008).	2013/ 2.131 Zona Galbena	2017/ 1.533/3= 0.511	3
	1. Bratu, V., Mortici, C., Oros, C., & Ghiban, N. (2014). Mathematical model of solidification process in steel continuous casting taking into account the convective heat transfer at liquid-solid interface. <i>Computational Materials Science</i> , 94, 2-7. 2. Ghiță, C., Pop, N., & Popescu, I. N. (2012). Existence result of an effective stress for an isotropic visco-plastic composite. <i>Computational Materials Science</i> , 64, 52-56.	2013/ 2.131 2013/ 2.131	2015/ 1.526 2015/ 1.526	

	<p>3. Anghelina, F. V., Bratu, V., Rusanescu, C. O., & Popescu, I. N. (2014). Mathematical model of horizontal divergence contribution to the integrated intensity of single crystal diffraction in XRD analysis of materials. <i>Computational Materials Science</i>, 94, 142-149.</p> <p>4. Tang, R., Zhou, B., Ma, Y., Jia, F., & Zhang, X. (2015). Numerical Simulation of Zr-based Bulk Metallic Glass During Continuous Casting Solidification Process. <i>Materials Research</i>, (AHEAD), 0-0.</p> <p>5. Beznea, E. F., Vasilache, C. A., & Chirica, I. (2012). FEM BUCKLING BEHAVIOR STUDIES ON COMPOSITE PLATES WITH INITIAL IMPERFECTIONS, COMAT 2012, p. 183-188.</p> <p>6. Jiang, Z. C., Tang, G. J., & Li, X. F. (2015). Effect of initial T-stress on stress intensity factor for a crack in a thin pre-stressed layer. <i>Engineering Fracture Mechanics</i>, 150, 19-27.</p> <p>7. Wu, J., L. Zhang, and L. Wan. (2017) A mode-III crack under adhesion studied by non-uniform linear spring models. <i>Acta Mechanica</i> 228.5 1621-1629.</p>	2013/ 2.131	2015/ 1.526	
18.	<i>E.M. Craciun, E. Soós, Antiplane States in an Elastic Body Containing an Elliptical Hole. Crack Propagation</i> , Math. Mech. Solids, 11, p. 459-466, (2006).	2015/1.836 Zona Rosie	2015/2.014/3 =0.671	2
	1. Singh, B. M., Rokne, J. G., & Dhaliwal, R. S. (2012). Closed form solution for an annular elliptic crack around an elliptic rigid inclusion in an infinite solid. <i>ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik</i> , 92(11-12), 882-887.	2015/ 1.293	2016/ 1.207	
19.	<i>E.M. Craciun, E. Baesu, E. Soós, General solution in terms of complex potentials in antiplane states in prestressed and prepolarized piezoelectric crystals: application to Mode III fracture propagation</i> , IMA J of Appl. Math., 70, p. 39-52, (2005).	2013/ 1.194 Zona Galbenă	2013/ 0.969/3= 0.323	3
	<p>1. Simionescu-Panait, O., & Ana, I. (2016). Propagation of TH-waves in a pre-stressed layered formation. <i>Mechanics of Advanced Materials and Structures</i>, 23(6), 624-630.</p> <p>2. Shen, M. H., & Hung, S. Y. (2016). Screw dislocation near a piezoelectric oblique edge crack. <i>Meccanica</i>, 51(6), 1445-1456.</p> <p>3. M. Marin, and A. Öchsner. (2017). An initial boundary value problem for modeling a piezoelectric dipolar body. <i>Continuum Mechanics and Thermodynamics</i>, 1-12.</p>	2015/1.000 2014/ 1.949 2017/ 2.589	2015/1.438 2014/ 0.925 2017/ 2.863	
20.	<i>E.M. Craciun, E. Soós, Interaction of two unequal cracks in a prestressed fiber reinforced composite</i> , Int. J. of Fracture, 94, p. 137-159, (1998).	2015/ 1.642 Zona Rosie	2015/ 1.827/2= 0.914	2
	<p>1. Radi, E., Bigoni, D., & Capuani, D. (2002). Effects of pre-stress on crack-tip fields in elastic, incompressible solids. <i>International journal of solids and structures</i>, 39(15), 3971-3996.</p> <p>2. Argani, L. P., Bigoni, D., Capuani, D., & Movchan, N. V. (2014, September). Cones of localized shear strain in incompressible elasticity with prestress: Green's function and integral representations. In <i>Proc. R. Soc. A</i> (Vol. 470, No. 2169, p. 20140423). The Royal Society.</p> <p>3. Shahzad, S., Dal Corso, F., & Bigoni, D. (2016). Hypocycloidal Inclusions in Nonuniform Out-of-Plane Elasticity: Stress Singularity vs. Stress Reduction. <i>Journal of Elasticity</i>, 1-15.</p> <p>4. Fan, Y., Zhu, Z., Kang, J., & Fu, Y. (2016). The mutual effects between two unequal collinear cracks under compression. <i>Mathematics and Mechanics of Solids</i>, 1081286515625436.</p> <p>5. Simionescu-Panait, O., & Ana, I. (2016). Propagation of TH-waves in a pre-stressed layered formation. <i>Mechanics of Advanced Materials and Structures</i>, 23(6), 624-630.</p> <p>6. Shahzad, S., Dal Corso, F., & Bigoni, D. (2017). Hypocycloidal Inclusions in Nonuniform Out-of-Plane Elasticity: Stress Singularity vs. Stress Reduction. <i>Journal of Elasticity</i>, 126(2), 215-229.</p> <p>7. Fan, Y., Zhu, Z., Kang, J., & Fu, Y. (2017). The mutual effects between two unequal collinear cracks under compression. <i>Mathematics and Mechanics of Solids</i>, 22(5), 1205-1218.</p>	2014/ 2.214 2013/ 2.378 2015/ 1.656 2015/ 1.836 2014/ 1.949 2017/1.909 2017/2.953	2015/ 1.972 2013/ 2.234 2015/ 2.248 2015/ 1.383 2015/ 0.925 2017/2.254 2017/2.014	
21.	Gh. Lupu, <i>E.M. Craciun, On the stability of elastic systems used for processing the propeller shafts of high tonnage ships</i> , Z. Angew. Math. Mech., (ZAMM), 76, p. 313-314, (1996).	2015/1.293 Zona Galbenă	2016/ 1.207/2= 0.604	2

1. $I = 9.52$ mai mare ca $I_{\min} = 5$.	<i>Criteriu indeplinit.</i>
2. I_{rec} recent publicat in ultimii 7 ani = 5.22. mai mare ca $I_{\text{rec min}} = 2.5$.	<i>Criteriu indeplinit.</i>
3. I_C Peste 50 Citari in reviste cu SRI mai mare de 0.5, (cu verde in lista) mai mare ca $I_{C\min} = 12$.	<i>Criteriu indeplinit.</i>

OBSERVATIE:

Monografia

N.D. Cristescu, E.M. Craciun, E. Soós "Mechanics of Elastic Composites", Chapman & Hall/ CRC Press, U.S.A, 708 pp., (2003).

are pe Google Scholar peste 100 de citari, din care peste 50 in reviste ISI cu impresionanti factori de impact.

<https://scholar.google.ro/citations?user=eFcwVEkAAAAJ&hl=ro>

Cărți si capitole in cărți publicate la edituri din străinătate

Nr. crt.	Lucrare (autori /titlu capitol / titlu carte/ editori, editura anul, pag. inceput-sfarsit) Citări (pentru Nr. citări diferit de zero, excluzand citările proprii)	Nr. autori
1	N.D. Cristescu, E.M. Craciun, E. Soós "Mechanics of Elastic Composites", Chapman & Hall/ CRC Press, U.S.A, 708 pp., (2003).	3
2	N.D. Cristescu, E.M. Craciun, E. Soós "Solution Manual of Mechanics of Elastic Composites", Chapman & Hall/ CRC Press, U.S.A, 148 pp., (2003).	3
3	Rene De Borst, Tomasz Sadowski (editors), "Lectures Notes on Composites Materials, Curent Topics and Achievments – Solids Mechanics and its Applications", Springer, (2008), E.M. Craciun – Chapters 5-6, p. 173 – 236.	2
4	K. Naumenko, M. Adamus (editors), "Advanced Methods of Continuum Mechanics for Materials and Structures", Springer, 60, (2016): E.M. Craciun – Chapter 17: "Pre-stressed Orthotropic Materials containing an elliptical hole", p. 327 – 336.	
5	K. Naumenko, M. Adamus (editors), "Advanced Methods of Continuum Mechanics for Materials and Structures", Springer, 60, (2016): T. Sadowski, E.M. Craciun, L. Marsavina – Chapter 19: "On the problem of cracking in 2-Phase Ceramic Matrix Composite Materials", p. 367 – 379.	

CURSURI UNIVERSITARE PUBLICATE

1. Luminita Barbu, E.M. Craciun "Elemente de analiza matematica si matematici speciale pentru ingineri", Vol.1, 375 pp., "Ovidius" University Press, (2004).
2. Gh. Lupu, E.M. Craciun "Mecanica – Culegere de Probleme", Editura Didactica si Pedagogica, Bucuresti, 565 pp., (1996).
3. Gh. Lupu, E.M. Craciun "Capitole de Mecanica Cereasca", Tipografia Universitatii Ovidius, 228 pp., (1995).

CURSURI WEB PENTRU INVATAMANTUL LA DISTANTA IN FORMAT DVI SI PDF

Mecanica, Elemente de Analiza Matematica si Matematici Speciale

Noiembrie 2018