Listă Publicaţii

Pătrulescu Flavius-Olimpiu

06/2023

1 Cărţi publicate

1. T.S. Groşan, **F.O. Pătrulescu**, C.T. Revnic, *Trnasport Phenomena in Nanofluids, Porous Media and Bidisperse Porous Media*, Casa Cărţii de Ştiinţă, Cluj-Napoca, 2021.

2 Articole publicate în reviste ISI (perioada 2013-2022)

1. **F.O. Pătrulescu**, T. Groşan, I. Pop (2020), Natural convection from a vertical plate embedded in a non-Darcy bidisperse porous medium, *Journal of Heat Transfer-Transactions of the ASME*, vol. 142, no. 1, article number: 012504, DOI 0.1115/1.4045067, WOS:000517845400015 (AIS (2022): Q_2 ENGINEERING, MECHANICAL).

2. M. Sofonea, **F.O. Pătrulescu**, A. Ramadan (2018), A mixed variational formulation of a contact problem with wear, *Acta Applicandae Mathematicae*, vol. 153, no. 1, pp. 125–146, DOI 10.1007/s10440-017-0123-4, WOS:000419889300005 (AIS (2022): Q_3 MATHEMATICS, APPLIED).

3. **F.O. Pătrulescu** (2018), A regularization method for a viscoelastic contact problem, *Mathematics and Mechanics of Solids*, vol. 23, no. 2, pp. 181–194, DOI 10.1177/1081286516676869, WOS:000425061400005 (AIS (2022): Q_2 MECHANICS).

4. **F.O. Pătrulescu** (2018), A mixed variational formulation of a contact problem with adhesion, *Applicable Analysis*, vol. 97, no. 8, pp. 1246–1260, DOI 10.1080/00036811.2016.1166213, WOS:000437012100003 (AIS (2022): Q_3 MATHEMATICS, APPLIED).

5. **F.O. Pătrulescu**, M. Sofonea (2017), Analysis of a rate-and-state friction problem with viscoelastic materials, *Electronic Journal of Differential Equations*, Article Number: 299, pp. 1–17, WOS:000417298800001 (AIS (2022): Q_4 MATHEMATICS, APPLIED).

6. M. Sofonea, **F.O. Pătrulescu**, Y. Souleiman (2016), Analysis of a contact problem with wear and unilateral constraint, *Applicable Analysis*, vol. 95, no. 11, pp. 2590–2607, DOI 10.1080/00036811.2015.1102892, WOS:000384205800017 (AIS (2022): Q_3 MATHEMATICS, APPLIED).

7. **F.O. Pătrulescu**, A. Ramadan (2015), Convergence results for contact problems with memory term, *Mathematical Reports*, vol. 17, no. 1, pp. 25–41, WOS:000353311600002 (AIS (2022): Q_4 MATHEMATICS).

8. M. Barboteu, **F.O. Pătrulescu**, A. Ramadan, M. Sofonea (2014), History-dependent contact models for viscoplastic materials, *IMA Journal of Applied Mathematics*, vol. 79, no. 6, pp. 1180–1200, DOI 10.1093/imamat/hxt024, WOS:000346035700008 (AIS (2022): Q_3 MATHEMATICS, APPLIED).

9. M. Sofonea, **F.O. Pătrulescu** (2014), A viscoelastic contact problem with adhesion and surface memory effects, *Mathematical Modelling and Analysis*, vol. 19, no. 5, pp. 607–626, DOI 10.3846/13926292.2014.979334, WOS:000345270100001 (AIS (2022): Q_4 MATHEMATICS).

10. **F.O. Pătrulescu**, T. Groşan, I. Pop (2014), Mixed convection boundary layer flow from a vertical truncated cone in a nanofluid, *International Journal if Numerical Methods for Heat and Fluid Flow*, vol. 24, no. 5, pp. 1175–1190, DOI 10.1108/HFF-11-2012-0267, WOS:000341757700012 (AIS (2022): Q_2 THERMODYNAMICS).

11. M. Sofonea, **F.O. Pătrulescu** (2014), Penalization of history-dependent variational inequalities, *European Journal of Applied Mathematics*, vol. 25, no. 2, pp. 155-176, DOI 10.1017/S0956792513000363, WOS:000338292400001 (AIS (2022): Q_2 MATHEMATICS, APPLIED).

12. M. Sofonea, **F.O. Pătrulescu**, A. Farcaş (2014), A viscoplastic contact problem with normal compliance, unilateral constraint and memory term, *Applied Mathematics and Optimization*, vol. 69, no. 2, pp. 175–198, DOI 10.1007/s00245-013-9216-2, WOS:000332738700001 (AIS (2022): Q_1 MATHEMATICS, APPLIED).

13. M. Sofonea, **F.O. Pătrulescu**, Analysis of a history-dependent frictionless contact problem, *Mathematics and Mechanics of Solids*, vol. 18, no. 4, pp. 409–420, DOI 10.1177/1081286512440004, WOS:000320026100004 (AIS (2022): Q_2 MECHANICS).

3 Articole publicate în reviste ISI (înainte de 2013)

1. **F.O. Pătrulescu** (2012), A numerical method for the solution of an autonomous initial value problem, *Carpathian Journal of Mathematics*, vol.

28, no. 2, pp. 305–312, WOS:000312047400016 (AIS(2022): Q_4 MATHEMATICS, APPLIED).

4 Alte articole

1. C. Revnic, **F.O. Pătrulescu** (2022), Mathematical modelling of free convection in a square cavity filled with a bidisperse porous medium for large values of Rayleigh number, *Studia Universitatis Babeş-Bolyai Mathematica*, vol. 67, no. 4, pp. 891–903, DOI 10.24193/subbmath.2022.4.16, WOS:000927847100016

2. D. Breaz, T. Groşan, **F.O. Pătrulescu**, C. Revnic (2022), Free convection in a square cavity filled by a bidisperse porous medium. Effect of internal heat generation, *Acta Universitatis Apulensis*, vol. 71, pp. 117–125, DOI 10.17114/j.aua.2022.71.08.

3. **F.O. Pătrulescu**, T. Groşan (2015), Conjugate free convection in a vertical channel filled with nanofluid, *Studia Universitatis Babeş-Bolyai Mathematica*, vol. 60, no. 4, pp. 611-621.

4. **F.O. Pătrulescu**, A. Farcaş, A. Ramadan (2013), A penalized viscoplastic contact problem with unilateral constraints, *Annals of the University of Bucharest (mathematical series)*, vol. 4, pp. 213–227.

5. M. Barboteu, **F.O. Pătrulescu**, A. Ramadan, M. Sofonea (2013), On the behaviour of the solution to a viscoplastic contact problem, in *Advances in Mathematics*, eds. L. Beznea, V. Brînzanescu, M. Iosifescu, G. Marinoschi, R. Purice, D. Timotin, pp. 75-88, *The Publishing House of the Romanian Academy.*

6. M. Barboteu, A. Ramadan, M. Sofonea, **F.O. Pătrulescu** (2012), An elastic contact problem with normal compliance and memory term, *Machine Dynamics Research*, vol. 36, no. 1, pp. 15–25.

7. **F.O. Pătrulescu** (2012), A class of numerical methods for autonomous initial value problems, *Revue d'analyse numérique et de théorie de l'approximation*, vol. 41, no. 1, pp. 89–92, DOI 10.33993/jnaat411-970.

8. A. Farcaş, **F.O. Pătrulescu**, M. Sofonea (2012), A history-dependent contact problem with unilateral constraint, *Ann. Acad. Rom. Sci. Ser. Math. Appl.*, vol. 4, no. 1, pp. 90–96.

9. **F.O. Pătrulescu** (2011), Steffensen type methods for approximating solutions of differential equations, *Studia Universitatis Babeş-Bolyai Mathematica*, vol. 56, no, 2, pp. 505–513.

10. **F.O. Pătrulescu**, T. Groşan (2010), Conjugate heat transfer in a vertical channel filled with a nanofluid adjacent to a heat generating solid domain,

Revue d'analyse numérique et de théorie de l'approximation, vol. 39, no. 2, pp. 141–149.

11. **F.O. Pătrulescu**, T. Groşan, A.V. Lar (2010), Mixed convection in a vertical channel subject to robin boundary condition, *Studia Universitatis Babeş-Bolyai Mathematica*, vol. 55, no. 2, pp. 167–176

5 Articole în curs de publicare sau acceptate

1. L.G. Parajdi, **F.O. Pătrulescu**, R. Precup, I.Ş. Haplea, Two numerical methods for solving a nonlinear system of integral equations of mixed Volterra-Fredholm type arising from a control problem related to leukemia, *Journal of Applied Analysis and Computation*, DOI: 10.11948/20220197 (AIS (2022): Q_4 MATHEMATICS, APPLIED).

2. T. Groşan, **F.O. Pătrulescu**, I. Pop, Ş.R. Pop, C. Berghian-Groşan, Natural convection in a differentially heated cavity filled with a Brinkman bidisperse porous medium, *International Journal if Numerical Methods for Heat and Fluid Flow* (AIS (2022): Q_2 THERMODYNAMICS) (acceptat pentru publicare, fără DOI)