

CURRICULUM VITAE

CLAUDIA TIMOFTE

Professor of Mathematics

CONTACT INFORMATION

Full Name: Claudia TIMOFTE
Address: Department of Theoretical Physics, Mathematics, Optics, Plasma, and Lasers,
Faculty of Physics, Bucharest University, P.O. Box MG-11, Romania
Phone: +40 72 1498 466; fax:+40 21 4574 521
E-mail: claudia.timofte@g.unibuc.ro
claudiatimofte@yahoo.com

PERSONAL INFORMATION

Date of Birth: October 28, 1964
Place of Birth: Târgu Neamț, Romania
Citizenship: Romanian
Marital Status: Divorced
Number of Children: One daughter, born in 1989

PROFESSIONAL AND ACADEMIC EXPERIENCE

02/08 - present: Professor, Department of Theoretical Physics, Mathematics, Optics,
Plasma, and Lasers, Faculty of Physics, University of Bucharest, Romania.
10/03 - 02/08: Associate Professor, Department of Theoretical Physics, Mathematics,
Optics, Plasma, and Lasers, Faculty of Physics, University of Bucharest,
Romania.
10/98 - 09/03: Lecturer, Department of Theoretical Physics, Mathematics, Optics,
Plasma, and Lasers, Faculty of Physics, University of Bucharest,
Romania.
10/91 - 09/98: Assistant, Department of Theoretical Physics, Mathematics, Optics,
Plasma, and Lasers, Faculty of Physics, University of Bucharest, Romania.
08/90 - 09/91 Mathematician, Center for Demographic Studies, Bucharest, Romania.
11/88 - 07/90 Mathematician, Hydraulic Pumps Plant, Botoșani, Romania.
09/88 - 10/88 Teacher, School No. 1, Turda, Cluj, Romania.

EDUCATION AND ACADEMIC DEGREES

10/02 - 03/03: Post-doctoral fellowship, Center of Mathematical Modelling, University of
Chile, Santiago de Chile, Chile.

- 01/02 - 06/02: Post-doctoral fellowship, Center of Mathematical Modelling, University of Chile, Santiago de Chile, Chile.
- 05/01 - 07/01: Post-doctoral fellowship, University of Pisa, Italy.
- 11/00 - 04/01: Post-doctoral fellowship, University Complutense, Madrid, Spain.
- 03/ 92 - 10/96: Ph.D. in Mathematics at "Simion Stoilow" Institute of Mathematics of the Romanian Academy, Bucharest, Romania.
- 10/ 83 - 07/88: Master of Science, Bucharest University, Faculty of Mathematics, Bucharest, Romania.
- 09/79 - 07/83: National College A. I. Cuza, Alexandria, Teleorman, Romania.

PROFESSIONAL AFFILIATIONS

- American Mathematical Society (AMS)
- Society for Industrial and Applied Mathematics (SIAM)
- Society for Mathematical Sciences in Romania

INVITATIONS AT FOREIGN UNIVERSITIES

- University of Cantabria, Santander, Spain (2016)
- University of Lorraine, Metz, France (2015, 2016).
- Complutense University, Madrid, Spain (2005, 2014, 2015)
- Humboldt University, Berlin, Germany (2010)
- RWTH Aachen, Germany (2007, 2008, 2009);
- Taras Sevchenko University, Kiev, Ukraine (2008)
- University of Pavia, Italy (2008)
- Technical University of Eindhoven, Holland (2005)

LANGUAGES

- Romanian (native)
- English (fluent)
- French (good)
- Spanish (very good)

TEACHING

- Special Chapters of Mathematical Methods for Physics and Engineering
- Complements of Mathematics
- Mathematical Analysis
- Complex Analysis
- Differential Equations
- Real and Complex Analysis

RESEARCH INTERESTS

- Homogenization theory
- Macrotransport processes
- Probabilistic methods in fluid dynamics
- Relaxation methods for optimization problems
- Upscaling in chemical reactive processes in porous media
- Mathematical models in biology and in crystallography
- Diffusion problems in composite media with imperfect interfaces

RESEARCH GRANTS

1. Grant 3046GR/1997, "Macrotransport processes. Applications to material dispersion problems", Romanian Academy, 1997, project director.
2. Grant 4064GR/1998, "Macrotransport processes. Applications to material and non-material dispersion problems", Romanian Academy, 1998, project director.
3. CNCSIS 2001-2003, Contract Nr. 35262/2001, "Applications of group theory to quasicrystals physics" – member.
4. "Homogenization and Multiple Scales 2000", financed by the European Union, contract HPRN-2000-00109 – member.
5. CNCSIS 2004-2006, "Representation of symmetry groups of carbon nanotubes with applications to the study of physical properties of such materials" - member.
6. CERES nr. 129/2004 "Mathematical formalisms for the description of quasiperiodic crystals and atomic clusters", 2004-2006 – member.
7. CERES nr. 192/2004, 2004 - 2006 – member.
8. CEx05-D10-02, 2005-2007 – member.
9. CEx05-D11-03, 2005-2007 – member.
10. CNCSIS 1059/2006, "Mathematical models for the asymptotic study of nonhomogeneous media", 2006 -2007, director of the project.
11. PN II - IDEAS, CNCSIS 992, contract 31/28.09.2007, "Homogenization methods for the study of some nonlinear phenomena in complex media", 2007 - 2010, director of the project.
12. Bilateral project LEA Math Mode, "Homogenization of a Thermal Problem with Flux Jump" (with dr. Renata Bunoiu, Metz, France).

LIST OF PUBLICATIONS

PUBLISHED BOOKS OR CHAPTERS IN BOOKS

1. C. Timofte, "Special Topics in Mathematics" (în English), Editura Universității din București, 2016, ISBN 978-606-16-0739-6.
2. C. Timofte, "Complex Analysis" (in English), Editura Universității din București, 2014, ISBN 978-606-16-0459-3.
3. C. Timofte, "Asymptotic Methods for the Study of Nonhomogeneous Media", Shaker Verlag GmbH, 2007, ISBN 978-3-8322-6092-7.

4. C. Timofte, "Differential Calculus" (in English), Editura Universității din București, 2009, ISBN 978-973-737-611-4.
5. C. Timofte, "Ordinary Differential Equations" (in English), Editura Universității din București, 2006, ISBN 973-737-123-2.
6. C. Conca, J. I. Díaz, A. Liñán, C. Timofte, "On the Homogenization of a Semilinear Problem Arising in Chemistry", chapter in "Multi Scale Problems and Asymptotic Analysis", GAKUTO International Series Mathematical Sciences and Applications, Volume 24, pp. 89-103, Gakkotosho, Tokyo, Japan, 2006, ISBN 4-7625-0433-5.
7. C. Conca, J. I. Díaz, A. Liñán, C. Timofte, "Homogenization in Chemical Reactive Flows through Porous Media", chapter in "New trends in continuum mechanics", Theta Foundation, 2005.
8. C. Timofte, C. Conca, "Interactive Sources of Oscillations in Signorini's Type Problems", *Partial Differential Equations and Inverse Problems*, chapter in "Contemporary Mathematics 362", American Mathematical Society Book Series, Providence, Rhode Island (2004), ISBN 0-8218-3448-7.
9. C. Timofte, "Asymptotic Methods for Nonhomogeneous Media", monograph (in Romanian), Editura Didactică și Pedagogică, București, 2003, ISBN 973-30-2080-X.
10. C. Timofte, "Macrotransport Processes", monograph (in Romanian), Editura Universității din București, 1997, ISBN 973-575-195-x.
11. M. Piticu, M. Vraciu, C. Timofte, G. Pop, "Differential Equations. Problems" (in Romanian), Editura Universității din București, 1995.

PAPERS IN REFEREED JOURNALS (SELECTION)

1. A. Capatina, C. Timofte, "Homogenization results for micro-contact elasticity problems", *Journal of Mathematical Analysis and Applications*, 441 (1), pp. 462-474, 2016.
2. R. Bunoiu, C. Timofte, "Homogenization of a thermal problem with flux jump", *Networks and Heterogeneous Media*, 11 (4), pp. 545-562, 2016.
3. R. Bunoiu, C. Timofte, "On the homogenization of a two-conductivity problem with flux jump", *Communications in Mathematical Sciences*, in press, 2016 (<http://www.math.wisc.edu/~jcms/>).
4. H.I. Ene, C. Timofte, "Homogenization results for a dynamic coupled thermoelasticity problem", *Romanian Reports in Physics*, 68 (3), pp. 979-989, 2016.
5. C. Timofte, "Homogenization results for a carcinogenesis model", accepted, *Mathematics and Computers in Simulation*, 2016. DOI: 10.1016/j.matcom.2016.06.008.
6. C. Timofte, "Multiscale analysis of a carcinogenesis model", *Biomath Communications*, 2 (1), 2015.
7. C. Timofte, "Homogenization results for the calcium dynamics in living cells", in press, *Mathematics and Computers in Simulation*, 2015, doi:10.1016/j.matcom.2015.06.01 2015.
8. H. Ene, C. Timofte, I. Țețea, "Homogenization of a thermoelasticity model for a composite with imperfect interface", *Bull. Math. Soc. Sci. Math. Roumanie*, 58 (106), 2, pp. 147-160, 2015.
9. H. Ene, C. Timofte, "Microstructure models for composites with imperfect interface via the periodic unfolding method", *Asymptotic Analysis*, 89 (1-2), pp. 111-122, 2014.
10. A. Capatina, C. Timofte, "Boundary optimal control for quasistatic bilateral frictional contact problems", *Nonlinear Analysis: Theory, Methods and Applications*, 94, pp. 84-99, 2014.
11. C. Timofte, "Homogenization results for ionic transport in periodic porous media", *Computers and Mathematics with Applications*, 68 (9), pp. 1024-1031, 2014.
12. C. Timofte, "Multiscale analysis of diffusion processes in composite media", *Computers and*

- Mathematics with Applications, 66 (9), pp. 1573-1580, 2013.
13. C. Timofte, "Multiscale modeling of heat transfer in composite materials", *Rom. Journ. Phys.*, 58 (9-10), pp 1418–1427, 2013.
 14. A. Capatina, C. Timofte, "An optimal control problem governed by implicit evolution quasi-variational inequalities", *Annals of the University of Bucharest*, 4 (LXII), pp. 157- 166, 2013.
 15. A. Capatina, H. Ene, C. Timofte, "On the asymptotic behavior of elliptic problems in periodically perforated domains with mixed-type boundary conditions", *Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics*, 5(54), 2012.
 16. A. Capatina, H. Ene, C. Timofte, "Homogenization results for elliptic problems in periodically perforated domains with mixed-type boundary conditions", *Asymptotic Analysis*, 80 (1-2), pp. 45-56, 2012.
 17. C. Timofte, N. Cotfas, G. Pavel, „On the asymptotic behaviour of some elliptic problems in perforated domains”, *Romanian Reports in Physics*, 64 (1), pp. 5–14, 2012.
 18. N. Cotfas, C. Timofte, G. Pavel, „Finite frames and finite frame quantizations”, *Romanian Reports in Physics*, 63 (4), pp. 1026–1037, 2011.
 19. C. Timofte, „Multiscale analysis of composite structures”, *Biomath*, 1, pp. 1-5, 2012.
 20. C. Timofte, "Homogenization results for nonlinear thermal diffusion problems in composite structures", *Central European Journal of Physics*, 8 (4), pp. 555-561, 2010.
 21. C. Timofte, "Homogenization Results for hyperbolic-parabolic equations", *Romanian Reports in Physics* 62 (2), pp. 229-238, 2010.
 22. C. Timofte, "Homogenization results for a nonlinear wave equation in a perforated domain", *U.P.B. Sci. Bull., Series A* 72 (2), 2010.
 23. C. Timofte, "Multiscale analysis in dynamical heat transfer problems in biological tissues", *Romanian Reports in Physics*, 61 (2), pp. 269-280, 2009.
 24. B. Calmuschi- Cula, I. Kalf, C. Timofte, U. Englert, "Robust packing in cyclopalladated primary amines: isomorphous crystal structures of four complexes with varying substitution patterns", *Acta Cryst. C* 65, m48 - m51, 2009.
 25. C. Timofte, "Homogenization results for enzyme catalyzed reactions through porous media", *Acta Mathematica Scientia* 29B (1), pp. 74-82, 2009.
 26. C. Timofte, "Upscaling in dynamical heat transfer problems in biological tissues", *Acta Physica Polonica B* 39 (11), pp. 2811-2822, 2008.
 27. C. Timofte, "Homogenization results for climatization problems", *Annali dell'Universita di Ferrara Sez. VII (N.S.)*, 53 (2), pp. 437-448, 2007.
 28. C. Timofte, "Upscaling in Nonlinear Thermal Diffusion Problems", *PAMM, WILEY VCH Verlag*, Volume 7, Issue 1. Published Online: Dec 12 2008.
 29. C. Timofte, "Upscaling in Diffusion Problems in Domains with Semipermeable Boundaries", *Acta Physica Polonica B* 38 (8), pp. 2433-2443, 2007.
 30. C. Timofte, "Upscaling of variational inequalities arising in nonlinear problems with unilateral constraints", *Z. Angew. Math. Mech.* 87 (6), pp. 406-412, 2007.
 31. C. Timofte, "On the Homogenization of a climatization problem", *Studia Universitatis Babeş-Bolyai Mathematica*, 2, pp. 117-126, 2007.
 32. C. Timofte, "Homogenization results for enzymatic dispersion processes", *PAMM*, Volume 6, Issue 1, 515-516, Wiley-VCH, 2006, DOI: 10.1002/pamm.200610238.
 33. C. Timofte, " On the Michaelis-Menten enzyme mechanism", *Romanian Reports in Physics*, 57 , 3, pp. 296-305, 2005.
 34. C. Conca, J. I. Díaz, A. Liñán, C. Timofte, "Homogenization in chemical reactive flows through porous media", *Electron. J. Diff. Eqns.*, Vol. 2004, No. 40, pp. 1-22.
 35. C. Timofte, "On the homogenization of parabolic problems with dynamical boundary conditions in perforated media", *Romanian Reports in Physics*, 56, 2, pp. 131-140, 2004.

36. C. Conca, J. I. Díaz, C. Timofte, "On the homogenization of a transmission problem arising in chemistry", *Romanian Reports in Physics*, **56**, 4, pp. 613-622, 2004.
37. C. Timofte, "On the asymptotic behavior of thermal Taylor dispersion processes in periodic media", *Journal of Theoretical and Applied Mechanics*, **41**, pp. 75-88, 2003.
38. C. Conca, F. Murat, C. Timofte, "A generalized strange term in Signorini's type problems", *ESAIM: Model. Math. Anal. Numer. (M2AN)* **37**(5), pp. 773-806, 2003.
39. C. Conca, J. I. Díaz, C. Timofte, "Effective chemical processes in porous media", *Math. Models Methods Appl. Sci. (M3AS)*, **13** (10), pp. 1437-1462, 2003.
40. C. Timofte, "Parabolic problems with dynamical boundary conditions in perforated media", *Mathematical Modelling and Analysis*, **8** (4), pp. 337-350, 2003.
41. G. Buttazzo, C. Timofte, "On the relaxation of some optimal partition problems", *Advances in Mathematical Sciences and Applications*, **12**, 2, pp. 509-520, 2002.
42. C. Timofte, "A macrotransport paradigm for dispersion phenomena in periodic porous media", *IJDEA*, **1A**, 3, pp. 313-319, 2000.
43. C. Timofte, "A macrotransport paradigm for thermal Taylor dispersion processes in periodic media", *Romanian Reports in Physics*, **52** (5-6-7), pp. 441-446, 2000.
44. C. Timofte, "Asymptotics of thermal dispersion in periodic media", *Journal of Theoretical and Applied Mechanics*, **37** (1), pp. 95-108, 1999.
45. C. Timofte, "Application of central limit theorems to macrotransport processes", *Latvian Journal of Physics and Technical Sciences*, **2**, pp. 24-38, 1998.
46. C. Timofte, "On the asymptotic behavior of some Taylor dispersion processes in periodic media", *Romanian Reports in Physics*, **50** (7-8-9), pp. 681-690, 1998 .

PAPERS IN PROCEEDINGS OF INTERNATIONAL CONFERENCES (SELECTION)

1. C. Timofte, "Multiscale analysis of heat transfer problems in composite media", *Proceedings of International Symposium on Stability, Vibrations and Control of Systems*, June, 2016, Budapest, Hungary.
2. R. Bunoiu, C. Timofte, "On the homogenization of a diffusion problem with flux jump", *Biomath Communications*, 3 (1), 2016.
3. J. I. Díaz, D. Gómez-Castro, C. Timofte, „On the influence of pellet shape on the effectiveness factor of homogenized chemical reactions", *Proceedings of the XXIV Congress on Differential Equations and Applications-XIV Congress on Applied Mathematics*, Cádiz, Spain, June, 8-12, 2015, 1–6.
4. C. Timofte, "On the Homogenization of a damped wave equation", *AIP Conference Proceedings*, 1301, 2010.
5. C. Timofte, "Homogenization results for a coupled system of diffusion equations in a porous medium", *AIP Conference Proceedings*, 1281, pp. 635-638, 2010.
6. C. Timofte, "Homogenization results for a wave equation with interior and boundary damping", *ICNPAA 2010*, Cambridge Scientific Publishers.
7. C. Timofte, "Asymptotic analysis in dynamical heat transfer problems in heterogeneous periodic media", *AIP Conference Proceedings*, 1186, pp. 248-258, 2009, ISBN 978-0-7354-0752-7.
8. C. Timofte, "Homogenization results for dynamical heat transfer problems in biological tissues", *Proceedings of Exploratory Workshop on Asymptotic Analysis and Applications in Continuum Mechanics*, Brasov, 2008.
9. C. Timofte, "Homogenization results for diffusion problems in composite structures", *Proceedings of International Conference MCM-2008*, Riga, Latvia.

10. C. Timofte, "Upscaling in reaction-diffusion problems", AIP Conference Proceedings, 936, pp. 547-550, Melville, New York, 2007, ISBN 978-0-7354-0447-2.
11. C. Timofte, "Upscaling in nonlinear thermal diffusion problems in composite materials", Progress in Industrial Mathematics at ECMI 2006, Springer Series, Vol. 12, pp. 328-332, 2007, ISBN: 978-3-540-71991-5.
12. C. Timofte, "Homogenization in nonlinear chemical reactive flows", Proceedings of the International Conference MATH'06, Istanbul, Turkey, pp. 250-255, 27-29 May 2006, ISSN: 1790-5117, ISBN: 960-8457-45-9.
13. C. Timofte, "On the homogenization of a nonlinear problem arising in elasticity", Proceedings of the International Conference NOLASC'06, Bucharest, October 16-18, 2006, pp. 15-20, ISSN: 1790-5117, ISBN: 960-8457-54-8.
14. C. Timofte, "Homogenization results for enzymatic dispersion processes", GAMM Annual Meeting, Berlin, Germany, 2006.
15. C. Conca, J. I. Díaz, A. Liñán, C. Timofte, "Effective chemical reactive flows through porous media", Midnight Sun Conference, Narvik, Norway, 2004.
16. C. Timofte, "On the effective behavior of some chemical reactive flows through porous media", French-Romanian Colloquium on Applied Mathematics, Craiova, Romania, 2004.
17. C. Timofte, C. Conca, "Interactive sources of oscillations in Signorini's type problems", Proceedings of Pan-American Advanced Studies Institute on Partial Differential Equations, Inverse Problems and Non-Linear Analysis, 2003, Santiago de Chile, Chile.
18. C. Timofte, "Application of central limit theorems to thermal dispersion in periodic media", Proceedings of the First HMS 2000 International School and Conference on Homogenization, Naples, June 2001, Italy, Gakuto International Series in Mathematics, L. Carbone, R. De Arcangelis eds., pp. 281-289, 2003.
19. C. Timofte, "On the asymptotic behavior of thermal Taylor dispersion processes in periodic media", Proceedings of the International Conference on Homogenization and Applications to Material Sciences, West University of Timisoara, pp. 101-110, 2001.
20. C. Timofte, "Homogenization methods for thermal dispersion problems", French-Romanian Colloquium on Applied Mathematics, 2000, Constanta, Romania.
21. C. Timofte, "Application of central limit theorems to thermal dispersion in periodic media", French-Romanian Colloquium on Applied Mathematics, 1998, Metz, France.
22. C. Timofte, "Application of central limit theorems to macrotransport processes", Proceedings of the International Conference on Analysis and Numerical Computation of Solutions of Nonlinear Systems Modelling Physical Phenomena, West University of Timișoara, pp. 416-425, 1997.

INVITED LECTURES AT INTERNATIONAL CONFERENCES

1. "Homogenized models for reaction-diffusion processes in composite media with imperfect interfaces", International Workshop Mathematical Modelling and Scientific Computing (MMSM 2016), Dobrich, Bulgaria, September, 2016.
2. "Microstructure models for composites with imperfect interfaces", International Conference on Applied Mathematics and Numerical Methods (ICAMNM), Craiova, Romania, 2016.
3. "Multiscale analysis of nanocomposite materials", Workshop "NanoMath 2014", Zaragoza, Spain, October, 2014.
4. "Multiscale analysis of composite structures with applications to biology", BIOMATH 2012, Sofia, Bulgaria, June 2012.
5. "On the asymptotic behavior of a Signorini problem in a perforated domain", The Seventh Congress of Romanian Mathematicians, Brasov, 2011.

6. "On the homogenization of a damped wave equation", Second Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences, Sozopol, Bulgaria, June 2010.
7. "Homogenization in nonlinear chemical reactive flows", MATH'06, Istanbul, Turkey, May, 2006.
8. "On the homogenization of a nonlinear problem arising in elasticity", NOLASC'06, Bucharest, October, 2006.
9. "Effective chemical processes in porous media", Invited lecture, University Complutense, Madrid, Spain, April 19th, 2005.
10. "On the homogenization of some climatization problems", Second International Conference on Applied Mathematics, Plovdiv, Bulgaria, August, 2005.
11. "Homogenization results for chemical reactive flows", CASA Minisymposium, Technical University of Eindhoven, Holland, March 24, 2005.
12. "On the homogenization of Signorini's type problems", Twelfth International Colloquium on Numerical Analysis and Computer Sciences with Applications, Plovdiv, Bulgaria, 2003.
13. "Homogenization of stratified periodic structures via Bloch decomposition", Thirteenth International Colloquium on Differential Equations, Plovdiv, Bulgaria, 2002.
14. "On the homogenization of an evolutionary boundary-value problem", Twelfth International Colloquium on Differential Equations, Plovdiv, Bulgaria, 2001.
15. "Homogenization methods for diffusion problems", Eleventh International Colloquium on Differential Equations, Plovdiv, Bulgaria, 2000.
16. "A macrotransport paradigm for dispersion phenomena in periodic porous media", International Colloquium on Differential Equations, Plovdiv, Bulgaria, 1999.

INVITED SEMINARS ABROAD

1. "Homogenization results for composite media with imperfect interfaces", University of Cantabria, Santander, Spain, April 28, 2016.
2. "Multiscale analysis of diffusion processes in composite media", January 8, 2016, University of Lorraine, Metz, France.
3. "Effective Elastic and thermoelastic properties of composites with imperfect interfaces", invited seminar, University Complutense of Madrid, Spain, October, 7, 2014.
4. "Upscaling in diffusion problems with semipermeable boundaries", April 29, 2008, invited conference at University of Pavia, Italy.
5. "Homogenization results for chemical reactive flows", April 02, 2008, Taras Sevchenko University, Kiev, Ukraine.
6. "Homogenization methods for thermal diffusion problems", November 15, 2007, RWTH Aachen, Germany.
7. "Homogenization results for chemical reactive flows", March 2005, Technical University of Eindhoven, Holland.
8. "New results on Freundlich kinetics", April 2005, Complutense University, Madrid, Spain.
9. "On the homogenization of Signorini's type problems", June 2002, CMM, University of Chile, Santiago de Chile, Chile.
10. "Homogenization methods for diffusion problems", February 2001, Complutense University, Madrid, Spain.
11. "Nonhomogeneous dynamical boundary-value problems in perforated domains", May 2001, University of Pisa, Italy.

COMMUNICATIONS AT INTERNATIONAL CONFERENCES

1. C. Timofte, "Heat transfer problems in composite media", SVCS International Symposium on Stability, Vibrations and Control of Systems, June, 2016, Budapest, Hungary.
2. C. Timofte, „Diffusion problems with flux jump”, International Conference on Mathematical Methods and Models in Biosciences (Biomath 2016), June, 2016, Blagoevgrad, Bulgaria.
3. C. Timofte, „Multiscale analysis of a carcinogenesis model”, International Conference on Mathematical Methods and Models in Biosciences (Biomath 2015), June, 14-19, 2015, Blagoevgrad, Bulgaria.
4. J.I. Díaz, D. Gómez-Castro, C. Timofte, "On the influence of pellet shape on the effectiveness factor of homogenized chemical reactions", XXIV Congress on Differential Equations and Applications-XIV Congress on Applied Mathematics, Cádiz, Spain, June, 8-12, 2015.
5. C. Timofte, "Homogenization results for the calcium dynamics in living cells", BIOMATH 2014, International Conference on Mathematical Methods and Models in Biosciences, Sofia, Bulgaria, June, 2014.
6. H. Ene, C. Timofte, "Microstructure models for composites with imperfect interface via the periodic unfolding method", Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, Alba Iulia, Romania, June 2013.
7. C. Timofte, „Multiscale analysis of diffusion processes in composite media”, BIOMATH 2013, Sofia, Bulgaria, June 2013.
8. A. Capatina, C. Timofte, „Boundary optimal control for a quasistatic bilateral frictional contact problem”, French-Romanian Colloquium of Applied Mathematics, Bucharest, 2012.
9. C. Timofte, "Homogenization Results for a Coupled System of Diffusion Equations in a Porous Medium", ICNAAM 2010, Rhodes, Greece, 2010.
10. A. Capatina, H. Ene, C. Timofte, "Homogenization results for elliptic problems in periodically perforated domains with mixed-type boundary conditions.", French-Romanian Colloquium, Poitiers, France, 2010.
11. C. Timofte, "Homogenization results for a wave equation with interior and boundary damping", ICNPAA, Brazil, 2010.
12. C. Timofte, "Asymptotic Analysis in Dynamical Heat Transfer Problems in Heterogeneous Periodic Media", First Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences, Sozopol, Bulgaria, June, 2009.
13. C. Timofte, "Homogenization results for dynamical heat transfer problems in biological tissues", French-Romanian Colloquium of Applied Mathematics, Brasov, 2008.
14. C. Timofte, "Homogenization results for diffusion problems in composite structures", International Conference "Mechanics of Composite Materials", Riga, Latvia, 2008.
15. C. Timofte, "Upscaling in nonlinear reaction-diffusion problems", International Congress of Romanian Mathematicians, Bucharest, July 2007.
16. C. Timofte, "Homogenization of diffusion problems in domains with semipermeable boundaries", Fifth Conference on Applied Mathematics and Scientific Computing, Brijuni, Croatia, July 9-13, 2007.
17. C. Timofte, "Upscaling in nonlinear thermal diffusion problems", ICIAM 2007 (GAMM), Zurich, July 16-20, 2007.
18. C. Timofte, "Upscaling in reaction-diffusion problems", ICNAAM 2007, Corfu, Greece, September 16-23, 2007.
19. C. Timofte, "Homogenization results for enzymatic dispersion processes", GAMM Annual Meeting, Berlin, Germany, March 27-31, 2006.

20. C. Timofte, "On the homogenization of some transmission problems in chemical reactive flows", French-Romanian Colloquium on Applied Mathematics, Chambéry, France, 2006.
21. C. Timofte, "Homogenization results for nonlinear thermal diffusion problems in composite materials", ECMI, Leganes-Madrid, Spain, 2006.
22. C. Timofte, "On the homogenization of a nonlinear problem arising in elasticity", NOLASC'06, Bucharest, 2006
23. C. Timofte, "Homogenization in nonlinear chemical reactive flows", WSEAS Conference MATH'06, Istanbul, Turkey, 2006.
24. C. Timofte, "Homogenization results for chemical reactive flows", 2005, CASA Minisymposium, Technical University of Eindhoven, Holland.
25. C. Timofte, "Effective chemical processes in porous media", University Complutense, Madrid, Spain, 2005.
26. C. Timofte, "On the Homogenization of some chemical reactive flows", SIAM GS05, Avignon, France, 2005.
27. C. Timofte, "Homogenization results for boundary climatization problems", Conference on Applied Mathematics, Brijuni, Croatia, 2005.
28. C. Timofte, "On the homogenization of some climatization problems", Second International Conference on Applied Mathematics, Plovdiv, Bulgaria, 2005.
29. C. Timofte, "Homogenization in chemical flows", Midnight Sun Conference, Narvik, Norway, 2004.
30. C. Timofte, "Homogenization results for climatization problems", Workshop "Homogenization and shape optimization", Lisbon, Portugal, 2004.
31. C. Timofte, "On the effective behavior of some chemical reactive flows through porous media", French-Romanian Colloquium on Applied Mathematics, Craiova, 2004.
32. C. Timofte, "On the homogenization of some semilinear problems arising in elasticity", ICNODEA, Cluj, Romania, 2004.
33. C. Timofte, "A generalized strange term in Signorini's type problems", Pan-American Advanced Studies Institute on Partial Differential Equations, Inverse Problems and Nonlinear Analysis, 2003, Santiago de Chile, Chile.
34. C. Timofte, "On the homogenization of a variational inequality arising in elasticity", Fifth World Congress of Romanian Mathematicians, 2003, Pitesti, Romania.
35. C. Timofte, "Homogenization results for chemical reactive flows through porous media", New Trends in Continuum Mechanics, Constanta, Romania, 2003.
36. C. Timofte, "Interactive Oscillation Sources in Signorini's Type Problems", Homogenization and Optimal Design, Pisa, Italy, 2003.
37. C. Timofte, "On the homogenization of a parabolic dynamical boundary-value problem", International Conference on Homogenization, Madrid, Spain, 2001.
38. C. Timofte, "Application of central limit theorems to thermal dispersion in periodic media", International Conference on Homogenization, University "Federico II" Naples, Italy, 2001.
39. C. Timofte, "On the effective dispersion coefficients for some thermal transport processes in porous media", Ukrainian International Congress, Kiev, August, 2001.
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1. H. I. Ene, C. Timofte, „Homogenization results for a dynamic coupled thermoelasticity problem”, Bucharest University Faculty of Physics Meeting, June 2015.
2. C. Timofte, ”On the asymptotic behaviour of some elliptic problems in perforated domains”, Scientific Session of the Faculty of Physics, Bucharest, June 2010.
3. C. Timofte, ”Homogenization results for a nonlinear wave equation in a perforated domain”, National Conference on Mechanics of Solids, Bucharest, 2009.
4. C. Timofte, ”Multiscale analysis in dynamical heat transfer problems in biological tissues”, Scientific Session of the Faculty of Physics, Bucharest, June 2008.
5. C. Timofte, ”Asymptotic analysis of diffusion problems in domains with semipermeable boundaries”, Scientific Session of the Faculty of Physics, Bucharest, June 2007.
6. C. Timofte, ”Upscaling in Nonlinear Thermal Diffusion Problems in Composite Materials”, Scientific Session of the Faculty of Physics, Bucharest, May 2006.
7. C. Timofte, ”Variational Methods in Biology”, Scientific Session of Hyperion University, Bucharest, 2006.
8. C. Timofte, ”Homogenization results for interior climatization problems”, Scientific Session of the Faculty of Physics, Bucharest, May 2005.
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