

LISTA DE LUCRARI **prof. dr. ing. Florin CONSTANTINESCU**

TEZA DE DOCTORAT: Sinteza rețelilor neliniare de un anumit tip, Conducător științific: prof. dr. ing. Marius Preda, Institutul Politehnic București, Facultatea de Electrotehnică, 1987.

Cărți și capitole în cărți de specialitate

Cărți cu ISBN / capitole ca autor didactice sau monografii

Internaționale

- 1 *Capitol de carte* D. Popovici, F. Constantinescu, M. Maricar, I. F. Hantila, M. Nitescu, A. Gheorghe, Modeling and Simulation of Piezoelectric Devices, in Recent Advances in Modeling and Simulation, I-Tech Education and Publishing, Vienna, Austria, June 2008, ISBN 978-3-902613-25-7.
- 2 A.G. Gheorghe, F. Constantinescu, New Topics in Simulation and Modeling of RF Circuits, Rivers Publishers Series in Circuits and Systems, 2016, ISBN 9788793379466, eBook ISBN: 9788793379459.
- 3 *Colaborator* - R. Răduleț, A. Timotin (coordonatori) THESAURUS CEI rationnel de l'électricité, Bureau Central de la Commission Electrotechnique Internationale, Genève (Suisse), 1986.
- 4 *Capitol de carte* A. G. Gheorghe, F. Constantinescu, M. Nițescu, M. E. Marin, Circuit Models of Bioelectric Impedance, Electrochemical Impedance Spectroscopy, Intech Open, 2020, DOI: 10.5772/intechopen.91004.
- 5 *Capitol de carte* Florin Constantinescu, Alexandru Gabriel Gheorghe, Mihai Eugen Marin, Florin Roman Enache, Perspective Chapter: Frequency Domain Models of Nonlinear Loads in Power Systems, Publication date 2023/11/26, IntechOpen

Naționale

- 1 M. Nitescu, Fl. Constantinescu, Teoria avansată a circuitelor electrice, Laboratorul de Metode Numerice, Institutul Politehnic București, PROIECTUL TEMPUS 2717, București, 1993.
- 2 F. Constantinescu, F. Hantila, Proprietăți calitative ale circuitelor electrice, Universitatea "Politehnica" București, 1993.
- 3 F. Hantila, F. Constantinescu, Metode numerice pentru calculul câmpului electromagnetic, Universitatea "Politehnica" București, 1993.
- 4 M. Nitescu, Fl. Constantinescu, Bazele Electrotehnicii :Partea I - Teoria Circuitelor Electrice, Curs pentru studenții Fac. de Energetica, Editura PRINTECH, 1998.
- 5 F. Constantinescu, A. Ionescu, C. V. Marin, M. Nitescu, "Analiza circuitelor electrice cu Pspice. Lucrări de laborator", Editura PRINTECH, București 2003, ISBN 973-652-759-x.
- 6 F. Constantinescu, A. Gheorghe, M. Nitescu, C. V. Marin, A. Ionescu, Simularea circuitelor-lucrări de laborator, Editura Printech, 2011, ISBN 978-606-521-716-4.

Suport didactic

Suport de curs inclusiv electronic

F. Constantinescu, Sinteza Circuitelor Electrice, <http://ferrari.lce.pub.ro/studenti>, 2012-2013.
Fl. Constantinescu, M. Nitescu, Bazele Electrotehnicii :Partea I - Teoria Circuitelor Electrice, Curs pentru Facultatea de Automatica și Calculatoare, <http://ferrari.lce.pub.ro/studenti>, 2001-2015.

Îndrumare de laborator / aplicații

F. Constantinescu, M. Nitescu, Sinteza circuitelor electrice – lucrări de laborator, <http://ferrari.lce.pub.ro/studenti>, 2001-2014.

Articole in extenso în reviste cotate și în volume proceedings indexate ISI Thomson-Reuters*), brevete de invenție

Articole în reviste ISI

- 1 F. Constantinescu 'Some properties of series-parallel nonlinear resistive circuits', IEEE Transactions on Circuits and Systems, vol CAS-38 (April 1991) pp. 442-445. WOS: A1991FD91000010

- 2 M. Nănescu and F. Constantinescu, Symbolic analysis of linear nonreciprocal circuits, *International Journal of Circuit Theory and Applications*, vol 19 (1991) , no. 1, pp.19-33. WOS: A1991EV253000003
- 3 F. Constantinescu, M. Nănescu, C.V. Marin, Computation of approximate symbolic pole/zero expressions, *Analog Integrated Circuits and Signal Processing*, Kluwer, September 2004, pp 255-264. WOS:000222638800006
- 4 F. Constantinescu, Special issue on SMACD 2002, *Analog Integrated Circuits and Signal Processing*, Kluwer, September 2004, pp. 191-192. WOS:000222638800001
- 5 F. Constantinescu, M. Nănescu, A. Ionescu, When is shooting appropriate in steady state analysis of nonlinear circuits, *International Journal of Bifurcation and Chaos - Vol. 17, No. 10 (October 2007)*. WOS:000253285500034
- 6 M. Maricar, F. Constantinescu, A. Reinhardt, M. Nănescu, A. Florea, Field models of power BAW resonators, *Rev. Roum. Sci. Tech., Ser. Electrotechn. et Energ.*, vol. 55 (2010), No. 1. WOS:000277006700010
- 7 C. V. Marin, F. Constantinescu, Fault diagnosis in analog circuits using approximate symbolic pole/zero expressions, *Rev. Roum. Sci. Tech., Ser. Electrotechn. et Energ.*, vol. 57 (2012), No. 1, pp. 20-29. WOS:000303096800003
- 8 F. Constantinescu, Al. G. Gheorghe, M. Nănescu, “New circuit models of power BAW resonators”, *Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique*, ISSN: 0035-4066, Vol. 53, Nr. 1, 2008, pp. 67-73. WOS:000255784200008
- 9 F. I. Hantila, F. Constantinescu, Al. G. Gheorghe, et al., “A New Algorithm for Frequency Domain Analysis of Nonlinear Circuits”, *Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique*, ISSN: 0035-4066, Vol. 54, Nr. 1, 2009, pp. 57-66. WOS:000264503000006
- 10 F. Constantinescu, Al. G. Gheorghe, M. Nănescu, „The energy balance error for circuit transient analysis”, *Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique*, ISSN: 0035-4066, Nr.3, 2010, pp. 243-250. WOS:000283001600005
- 11 F. Constantinescu, Al. G. Gheorghe, M. Nănescu, A. Florea, O. Llopis, P. Taras, “Parameter Identification for Nonlinear Circuit Models of Power BAW Resonator”, *Advances in Electrical and Computer Engineering*, ISSN: 1582-7445, e-ISSN: 1844-7600, DOI: 10.4316/aece, Nr. 1, 2011, pp. 55-62. WOS:000288761800009
- 12 F. Constantinescu, Al. G. Gheorghe, A. Florea, M. Nănescu, O. Llopis, „Artificial Transmission Line Model for Power BAW Resonators”, *Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique*, ISSN: 0035-4066, Nr.2, 2011, pp 237 – 246. WOS:000291711900013
- 13 Al. G. Gheorghe, F. Constantinescu, M. Nănescu, „A New Algorithm for Envelope Following Analysis”, *Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique*, Nr.2, 2011, pp 229 – 236. WOS:000291711900012
- 14 F. Constantinescu, M. Nănescu, Al. G. Gheorghe, A. Florea, O. Llopis, „Behavioral circuit models of power BAW resonators and filters”, *Analog Integrated Circuits and Signal Processing*, ISSN 0925-1030, DOI: 10.1007/s10470-011-9758-7 Vol. 73, Nr 1, 2012, pp.57-64. WOS:000309130700007
- 15 Al. G. Gheorghe, C. V. Marin, F. Constantinescu, M. Nănescu, “ Parameter Identification for a New Circuit Model Aimed to Predict Body Water Volume”, *Advances in Electrical and Computer Engineering*, ISSN: 1582-7445, e-ISSN: 1844-7600, DOI: 10.4316/AECE.2012.04013, Nr. 4, 2012, pp. 83 - 86. WOS:000312128400013
- 16 F. Constantinescu, Al. G. Gheorghe, M. Nănescu, „A Capacitive Accelerometer Model”, *Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique*, ISSN: 0035-4066, Nr.2, 2013, pp 163 – 172. WOS:000320488100006
- 17 M.-E. Marin, F. Constantinescu, A. G. Gheorghe, C. , An 8-bit current-steering digital to analog converter with calibration capabilities for wireless communications, *Rev. Roum. Sci. Techn.– Électrotechn. et Énerg.*, Vol. 62, 4, pp. 394–397, Bucarest, 2017, WOS:000439087200001

- 1 Elek Demeter, F. Constantinescu, F. Hantila, Magnetic field and performances of a magnetic separator, International Symposium on Nonlinear Electromagnetic Systems (ISEM'95), Cardiff, September 17 -21 1995. WOS: A1996BG15E00205
- 2 Florin Constantinescu, Miruna Nitescu, Two-rate Computation of the Periodic Steady-state in RF-IC Circuits, Proc. of the International Symposium on Circuits and Systems ISCAS 2000, May 28-31 2000, Geneve, Switzerland, pp. 121-125. WOS:000088845800031
- 3 F. Constantinescu, M. Nitescu, C. V. Marin, Finding periodic steady-state of strongly nonlinear RF-IC using shooting by exponential extrapolation, 1st IEEE Conference CCSC, Skt. Petersburg, Russia, 27-30 June, 2002. WOS:000181862900075
- 4 F. Constantinescu, M. Nitescu, C.V. Marin, M. Iordache, L. Dumitriu, Implementation of 2D SPICE models for finding periodic steady-state of strongly nonlinear RF-IC , IECS 2002, Dubrovnik, Croatia 15-17 Sept. 2002. WOS:000180927800068
- 5 M. Iordache, L. Dumitriu, F. Constantinescu, and M. Nitescu, "Tearing techniques for symbolic simulation of large-scale analog circuits," in Proc. 9th Int. Conf. Electronics, Circuits Systems (IECS), Dubrovnik, Croatia 15-17 Sept. 2002, vol. 3, 2002, pp. 879–882. WOS:000180927800215
- 6 Constantinescu F., Marin C., V., Nitescu M., Marin D., A new approach to parameter identification of linear circuits, International Symposium on Signals, Circuits and Systems, IASI, ROMANIA Date: JUL 10-11, 2003, pp. 457-460. WOS:000186628100116
- 7 Constantinescu F., Nitescu, M; Ionescu, A, When is the fast computation of the periodic steady state appropriate, 7th International Symposium on Signals, Circuits and Systems (ISSCS 2005), Iasi, ROMANIA, July 14-15, 2005, pp. 323-326. WOS:000245413504084
- 8 Mihai Iordache, Lucia Dumitriu, Florin Constantinescu, Miruna Nitescu, A New Steady-State Analysis Method for RF-IC Circuits Driven by Multi-Tone Signals, Proceedings of 2006 IEEE International Symposium on Circuits and Systems (ISCAS) May 21-24, 2006 Island of Kos, Greece, p. 2357-2360. WOS:000245413502196
- 9 Florin Constantinescu, Alexandru Gheorghe, Daniel Constantiu Ioan, Miruna Nitescu, Mihai Iordache, Lucia Dumitriu, A New Approach to the Computation of Reduced Order Models for One-Port and Two-Port RC Circuits, Proceedings of 2006 IEEE International Symposium on Circuits and Systems (ISCAS) May 21-24, 2006 Island of Kos, Greece pp. 4002-4005. WOS:000245413504084
- 10 F. Constantinescu, M. Nitescu, A. G. Gheorghe, Circuit models for power BAW resonators - set-up and implementation, 8th IEEE Africon Conference, Sept. 26-28, 2007, Windhoek, Namibia. WOS:000255394100192
- 11 Florin Constantinescu, Angelo Brambilla, Giancarlo Storti Gajani, Miruna Nitescu, Algorithmic aspects in RF Circuit Simulation, Proceedings of IEEE ISCAS 2007, New Orleans, SUA, 27-30 May 2007. WOS:000251608400126
- 12 Al. G. Gheorghe, F. Constantinescu, M. Nitescu, "Efficiency of the Envelope Following Analyses", Proceedings of IEEE ISSCS 2007 (International Symposium on Signals, Circuits and Systems), 12-13 iulie 2007, Iasi, Romania., pp.517-520. WOS:000250471700132
- 13 M. Nitescu, F. Constantinescu, AL. G. Gheorghe, Modeling of Power BAW Resonators Proceedings of 5th WSEAS Int. Conference on Applied Electromagnetics, Wireless and Optical Communications, Tenerife, Spain, December 14-16, 2007, pp.103-106. WOS:000254098600021
- 14 M. Nitescu, F. Constantinescu, A.-G. Gheorghe, "An A.C. linear parametric behavioral model of a nonlinear BAW resonator", International Conference on Circuits and Systems for Communications (ICCSC'06), July 10-11, 2006, Politehnica University, Bucharest, Romania. WOS:000259024700028
- 15 M. Maricar, F. Constantinescu, M. Nitescu, A. Florea "Field models of power BAW resonators", European Conference on Circuits and Systems for Communications (ECCSC 2008), July 10- 11, 2008, Politehnica University, Bucharest, Romania. WOS:000259024700029
- 16 A. G. Gheorghe, C. V. Marin, F. Constantinescu, M. Nitescu, , "A new circuit model for body cell mass prediction", 4th European Conference on Circuits and Systems for Communications (ECCSC 08), JUL 10-11, 2008, Politehnica University, Bucharest, Romania WOS:000259024700031
- 17 I. F. Hantila, F. Constantinescu, A. G. Gheorghe, M. Nitescu, - "A Frequency Domain Method for Analysis of Dynamic Circuits with Resistive Nonlinearities", European Conference on Circuits and

- Systems for Communications (ECCSC2008), July 10- 11, 2008, Politehnica University, Bucharest, Romania. pp. 140-143. WOS:000259024700034
- 18 F. Constantinescu, M. Nitescu, A. G. Gheorghe, C. V. Marin, , A method for one port and two-port RC circuit synthesis, 7th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing, DEC 15-17, 2008, Puerto de la Cruz, Spain, pp. 124-127. WOS:000254098600021
 - 19 F. Constantinescu, Al. G. Gheorghe, M. Nitescu A Time Step Choice Algorithm for Transient Analysis of Circuits, AFRICON 2009, Nairobi, Kenya, September 23-26, 2009. WOS:000275165500110
 - 20 F. Constantinescu, A. G. Gheorghe, M. Nitescu, Circuit Models of Passive One-ports with Resistive and Capacitive Behavior, International Symposium on Electrical and Electronics Engineering, September 16-18, 2010, Galați, Romania.
 - 21 A. Florea, O. Llopis, M. Nitescu, F. Constantinescu, Experimental results on the nonlinear effects in power BAW resonators, International Symposium on Electrical and Electronics Engineering, September 16-18, 2010, Galați, Romania. WOS:000304591700023
 - 22 Constantinescu, F.; Gheorghe, A.G.; Nitescu, M.; Florea, A.; Llopis, O., Physical and behavioral circuit models of power BAW resonators, Signals, 10th International Symposium on Signals, Circuits and Systems (ISSCS) 2011, June 30-July 1 2011, Iasi, Romania. WOS:000337925400073
 - 23 G. Stroe, A. Florea, O. Llopis, F. Constantinescu, M. Nitescu, Reduction of second harmonic distortion using anti-series and anti-parallel connections of power BAW resonators, International Semiconductor Conference, October 17-19 2011, Sinaia, România. WOS:000320322000040
 - 24 Florin Constantinescu, Alexandru Gabriel Gheorghe, Miruna Nitescu, Aurelian Florea, Nonlinear artificial line models for power BAW resonators, AFRICON 2011, September 13-15, 2011, Livingstone, Zambia. WOS:000298383100199
 - 25 Constantin Viorel Marin, Florin Constantinescu, Miruna Nitescu, A dictionary approach to fault diagnosis of analog circuits, AFRICON 2011, September 13-15, 2011, Livingstone, Zambia. WOS:000298383100199
 - 26 G. Stroe, F. Constantinescu, A. G. Gheorghe, M. Nitescu, O. Llopis, Measurement and Modeling of Nonlinear Effects for Power BAW Filters with AlN, Proceedings of Advanced Topics in Electrical Engineering, Politehnica University Bucharest, Faculty of Electrical Engineering, May 23-25 2013. WOS:000332928500127
 - 27 C. Brinzei, F. Constantinescu, A new calibration method for current steering DACs, International Symposium on Electrical and Electronics Engineering, October 11-12, 2013, Galați, Romania. WOS:000335153400066
 - 28 A. G. Gheorghe, F. Constantinescu, M. Marin, M. Nitescu, The Envelope Following Analysis of a Buck Converter with Closed Loop Control, International Symposium on Electrical and Electronics Engineering, October 11-12, 2013, Galați, Romania. WOS:000332928500127
 - 29 A. G. Gheorghe, F. Constantinescu, M. Nitescu, Improved LR Algorithm for Computation of the Approximate Symbolic Pole/Zero Expressions, AFRICON 2013, Mauritius, Sept. 9-12, 2013, IEEE XPLORE
 - 30 F. Constantinescu, M. Nitescu, A. G. Gheorghe, M. E. Marin, D. Rogobete, A. C. Tarnoveanu, A. M. Vizanti, A New Approach to Intelligent Search in Electrical Engineering Literature, 5th International Conference on Information, Intelligence, Systems and Applications July 7-9 2014, Chania, Crete, Greece. WOS:000345861900026
 - 31 M.-E. Marin, C. Brînzei, F. Constantinescu, A. G. Gheorghe, Iulian Ursac, Design of a 8 bit current-steering DAC for a GSM transmitter, 2014 International Symposium on Fundamentals of Electrical Engineering, Politehnica University of Bucharest, November 28-29 2014. WOS:000380570500033
 - 32 F. Constantinescu, O. Taus, A. G. Gheorghe, A New Behavioral Model for Frequency Domain Analysis of Power BAW Filters, 13TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES 2015), June 11-12, 2015, Oradea, Romania, WOS:000363815100005, ISBN:978-1-4799-7650-8.
 - 33 Al. G. Gheorghe, F. Constantinescu, M. Nițescu , "State Matrix Simplification for Computation of the Approximate Pole/Zero Expressions", International Conference on Synthesis, Modeling,

- Analysis and Simulation Methods and Applications to Circuit Design (SMACD 2015), Istanbul, Turkey, 7-9 September, 2015, WOS:000380412000008, ISBN:978-1-4673-9184-9
- 34 O. S. Taus, F. Constantinescu, A. G. Gheorghe, "Compensation of the Connection Wires Influence for a Behavioral Model of a Power BAW Filter", 2015 IEEE 21st International Symposium for Design and Technology in Electronic Packaging (SIITME), October 22nd–25th, 2015, Brasov, Romania, WOS:000377765500037
- 35 M. E. Marin, F. Constantinescu, C. Brinzei, A. G. Gheorghe, Verification of a Calibration Method for Digital to Analog Converters, 2016 INTERNATIONAL SYMPOSIUM ON FUNDAMENTALS OF ELECTRICAL ENGINEERING (ISFEE), Bucharest, Romania, June 30-July 2, 2016, ISBN:978-1-4673-9575-5, WOS:000392434400045, ISBN:978-1-5090-0332-7.
- 36 M. E. Marin, F. Constantinescu, O. S. Taus, A. G. Gheorghe, Intermodulation Products in AlN Power BAW Duplexer Filters, ISSCS 2017, Technical University Iasi, Romania, July 13 -14 2017. WOS:000425211500087
- 37 Florin Constantinescu, Alexandru Gabriel Gheorghe, Mihai Eugen Marin, Ovidiu Taus, Harmonic balance analysis of home appliances power networks, 2017 14th International Conference on Engineering of Modern Electric Systems (EMES), June 1-2, 2017, WOS:000427085200061
- 38 Mihai-Eugen Marin, Mihai Maricar, Florin Constantinescu, Alexandru Gabriel Gheorghe, Hardware and software approach for teaching automotive networks, Conference: 2017 Electric Vehicles International Conference (EV), October 2017. WOS:000427815000011
- 39 A. G. Gheorghe, Florin Constantinescu, M. E. Marin, Symbolic Formulas for Settling Time and Phase Margin of Op-Amp with Arbitrary Number of Poles and Zeros, Proc. XXVII International Scientific Conference Electronics - ET2018, September 13 - 15, 2018, Sozopol, Bulgaria. IEEE Xplore
- 40 A. G. Gheorghe, F. Constantinescu, M. E. Marin, V. Ștefănescu, G. Vătășelu, Frequency Domain Models for Nonlinear Home Appliance Devices, 2018 International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, November 1-2, 2018. WOS:000480396400062
- 41 F. Constantinescu, A. G. Gheorghe, M. E. Marin, G. Vătășelu, V. Ștefănescu, D. Bodescu, New Models for Frequency Domain Simulation of Home Appliances Networks, 11-th International Symposium on Advanced Topics in Electrical Engineering, March 28-30, 2019, Bucharest, Romania. WOS:000475904500140
- 42 F. Constantinescu, M. Rață, F. R. Enache, G. Vătășelu, V. Ștefănescu, D. Milici, I. Aramă, Frequency Domain Models for Nonlinear Loads with Firing Angle control Devices Part I – Measurements, 2019 15th International Conference on Engineering of Modern Electric Systems (ICEMES), Oradea, Romania, 13-14 June 2019. WOS:000503434500061
- 43 F. R. Enache, F. Constantinescu, M. Rață, G. Vătășelu, V. Ștefănescu, D. Milici, I. Aramă, Frequency Domain Models for Nonlinear Loads with Firing Angle control Devices, Part II – Modeling, 6-th International Symposium on Electrical and Electronics Engineering, Galati, Romania, October 18 - 20 2019 WOS:000614815800016
- 44 A. G. Gheorghe, F. Constantinescu, M. E. Marin, Time Domain and Frequency Domain Models for Analysis of Nonlinear Power Networks of Home Appliances, International Symposium on Signals, Circuits and Systems 2021, Iasi, Romania, July 15-16 2021.
- 45 M. E. Marin, C.-S. Staicu, A. G. Gheorghe, F. Constantinescu, Generation of State Equations for Circuits with Excess Elements, 2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE), November 5-7 2020, Bucharest, Romania. WOS:000812321500014
- 46 I. Ursac, F. Constantinescu, Calibration of a Frequency Reference for the Communications Standard 802.11g, 2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE), November 5-7 2020, Bucharest, Romania. WOS:000812321500007
- 47 I. Ursac, F. Constantinescu, A New Dual Loop Frequency Synthesizer for the Wireless Standard 802.11g, 2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE), November 5-7 2020, Bucharest, Romania. WOS:000812321500048

Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

Articole în reviste indexate în alte baze de date internaționale

- 1 St. Zarea and Fl. Constantinescu, An iterative method for the analysis of pipeline networks, Rev. Roum. Sci. Techn.-Mec. Appl., t.19 (1974), no.4, p.691-704. Google Scholar
- 2 Fl. Constantinescu, An algorithm for finding the component tolerances in a wide- band amplifier, Rev. Roum. Sci. Techn.-Electrotechn. et Energ., t. 23, no. 1, p. 85-92 (1978). Electrical and Electronics Abstracts -INSPEC 1225241
- 3 Fl. Constantinescu and Fl. Hantila, A numerical method for the calculation of the stationary magnetic field in nonlinear and inhomogeneous media, Rev. Roum. Sci. Techn.- Electrotechn. et Energ., t.25, no. 1 (1980), p.3-16. Electrical and Electronics Abstracts -INSPEC 1571556
- 4 Fl. Hantila and Fl. Constantinescu, The calculation of the separation characteristics for a magnetic separator, Rev. Roum. Sci. Techn.-Electrotechn. et Energ., t.25, no. 3 (1980), p.369-377. Electrical and Electronics Abstracts -INSPEC 1694547
- 5 Fl. Constantinescu, Realizability conditions for nonlinear concave characteristics, Buletinul Inst. Politehnic "Gh.Gheorghiu-Dej" Bucuresti, seria Electrotehnica, t. XLV(1983) p.68-74. Electrical and Electronics Abstracts -INSPEC 2303880
- 6 M. Nitescu, Fl. Constantinescu and F. Spinei, A method for symbolic analysis of large-scale networks, Rev. Roum. Sci. Techn.-Electrotechn. et Energ., t. 28 (1983), no.3, p.249-257. Electrical and Electronics Abstracts -INSPEC 2222200
- 7 Fl. Constantinescu si M. Nitescu, Influenta tolerantelor parametrilor tranzistorului asupra costului unui amplificator de banda larga, Buletinul Institutului Politehnic Bucuresti, Seria Electrotehnica, t.51, 1989, p.67-70. Electrical and Electronics Abstracts -INSPEC 3738208
- 8 F. Constantinescu and M. Nitescu, Symbolic analysis - a tool for sensitivity computation, Rev. Roum. Sci. Techn. Ser. Electrotechn. et Energ. , t. 38 (1993), no. 3, p. 385-389. Electrical and Electronics Abstracts -INSPEC 4735205
- 9 F. Constantinescu and M. Nitescu, Analysis and design of analog circuits using a symbol manipulation technique, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ. 1994, nr.1 p. 27 -31. Electrical and Electronics Abstracts -INSPEC 5152091
- 10 Fl.Constantinescu, Miruna Nitescu and A. Georgescu, A shooting method for the computation of the steady state in nonlinear circuits. Part I: theory, Buletinul Universitatii Tehnice "Gh.Asachi" Iasi, Sectia III Electrotehnica, Energetica, Electronica, tom XLI(XLV), fasc. 1-2, 1995, p.7-13. Electrical and Electronics Abstracts -INSPEC 5286747
- 11 Miruna Nitescu and Fl.Constantinescu, The Efficiency of Tearing in Symbolic Analysis Problems, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ.,vol. 40 (1995), no.3, p. 321-327. British Library UIN: ETOCRN028823423.
- 12 Fl. Constantinescu, Synthesis of nonlinear concave driving-point characteristics using Zener diodes belonging to a certain class, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ. 1994 no. 2, p. 131-137 . Electrical and Electronics Abstracts -INSPEC 5160526
- 13 F. Constantinescu and M. Nitescu, Symbolic calculation of poles and zeros expressions using the reduced state matrix, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ., vol. 42, 2, pp.235-242, Bucharest, 1997. Electrical and Electronics Abstracts -INSPEC 6344740
- 14 F. Constantinescu, M. Nitescu, A method for the computation of symbolic pole expressions,, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ. . vol 40 (1995) nr.2 , pp.207-213. British Library UIN: ETOCRN028823800
- 15 F. Constantinescu and M. Nitescu, Some techniques for approximative computation of symbolic pole expressions, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ., vol.41 (1996), nr.1, pg.71-77. British Library UIN: ETOCRN028823241
- 16 F Constantinescu, A Ionescu, Determination of the periodic steady state in piecewise-linear transistor circuits, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ., vol. 41 (1996), No. 2, pp. 205-209. British Library UIN: ETOCRN028823113
- 17 Miruna Nitescu, Fl. Constantinescu, The Efficiency of Some Numerical Methods for Hierarchical circuit Analysis, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ., 1997. Electrical and Electronics Abstracts -INSPEC 6344750

- 18 Miruna Nitescu, Fl. Constantinescu, The Efficiency of Numerical and Symbolic Repetitive Computations, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ., Vol. 42 (1997), pp. 437-443. Electrical and Electronics Abstracts -INSPEC 6357512
- 19 F. Constantinescu, A. Ionescu, M. Nitescu, Fast finding of the periodic steady-state in nonlinear circuits by exponential extrapolation, JSAEM Studies in Applied Electromagnetics and Mechanics (a supplement of the International Journal of Applied Electromagnetics and Mechanics), 1998, ISSN 1343-2869, pp.275 -280. British Library UIN ETOCCN032688163
- 20 F. Constantinescu, M. Nitescu, Simplified symbolic expressions of circuit functions valid for a certain region of the complex plane, JSAEM Studies in Applied Electromagnetics and Mechanics (a supplement of the International Journal of Applied Electromagnetics and Mechanics), 1998, ISSN 1343-2869, pp.281-287. British Library UIN: ETOCCN032688179
- 21 M. Nitescu, F. Constantinescu, On the efficiency of symbolic and numeric hierarchical methods for solving repetitive computation problems, JSAEM Studies in Applied Electromagnetics and Mechanics (a supplement of the International Journal of Applied Electromagnetics and Mechanics), 1998, ISSN 1343-2869, pp.80-86. British Library UIN: ETOCCN032687866
- 22 Fl. Constantinescu Miruna Nitescu, Finding simplified symbolic expressions of circuit functions using reduced state-like matrices, Rev. Roum. Sci. Techn., Ser. Electrotechn. et Energ., vol. 44 (1999), nr. 2, p. 155-162. Electrical and Electronics Abstracts -INSPEC 6761141
- 23 F. Constantinescu, M. Nitescu, A new method for analysis of nonlinear circuits with broad frequency spectrum, Rev. Roum. Sci. Techn. Ser. Electrotechn. et. Energ., vol. 44 (1999), nr. 3, p. 281-288. Electrical and Electronics Abstracts -INSPEC 6886167
- 24 F. Constantinescu, M. Nitescu, Sequence of expresions algorithm for symbolic analysis, Rev. Roum. Sci. Techn. Ser. Electrotechn. et. Energ., vol. 45 (2000), nr. 2, p. 155-161. Electrical and Electronics Abstracts -INSPEC 7144054
- 25 F. Constantinescu, C. V. Marin, M. Nitescu, D. Marin, A new parameter identification method based on approximate symbolic pole/zero expressions, Rev. Roum. Sci. Techn. - Électrotechn. et Énerg., 2003 British Library UIN ETOCRN149276109
- 26 F. Enache, Gh. Gavrilă, F. Constantinescu, Time domain and frequency domain steady state computation of nonlinear circuits, Rev. Roum. Sci. Techn. - Électrotechn. et Énerg., vol. 49, No. 4 (2004). Google Scholar
- 27 M. Nitescu, F. Constantinescu, Al.-G. Gheorghe, L. Dumitriu, "Fast Solving of a Linear Parametric Model of a BAW Resonator", Annals of the University of Craiova, Electrical Engineering series, ISSN 1842-4805, No. 30, 2006, pp 32-35, Google Scholar
- 28 F. Constantinescu, M. Nitescu, C. V. Marin, Some remarks on nonlinear circuit analysis, Rev. Roum. Sci. Techn. - Électrotechn. et Énerg., vol. 51, No. 3 (2006), pp. 293-302 . Electrical and Electronics Abstracts -INSPEC 9218152.
- 29 Al. G. Gheorghe, F. Constantinescu, "Solution computation for resistive circuits containing companion models", University POLITEHNICA of Bucharesp.193-204t, SCIENTIFIC BULLETIN SERIES C - ELECTRICAL ENGINEERING, Vol. 72, Iss. 4, 2010, pp.193-204. Electrical and Electronics Abstracts -INSPEC 12080859
- 30 Al. G. Gheorghe, M. Nitescu, **F. Constantinescu**, „Circuit Models for Anti-series and Anti-parallel Connections of Power Bulk Acoustic Wave Resonators”, ELECTROTEHNICA, ELECTRONICA, AUTOMATICA, 57 (2009) nr.3, p.17-19. Google Scholar
- 31 St. Zarea et **Fl. Constantinescu**, *Methode iterative de calcul hydraulique des reseaux mailles de conduites*, Compte Rendus Acad. Sci. Paris, t.278 (14 janvier 1974), p.173-176. Google Scholar
- 32 G. I. Stroe, A. Florea, O. Llopis, F. Constantinescu, M. Nitescu, Measurement of nonlinear effects in filters based on BAW resonators with AlN, The Scientific Bulletin of Electrical Engineering Faculty, Valachia University of Targoviste, Faculty of Electrical Engineering, Year 11 (2011), No. 2, pp. 91-94. Google Scholar
- 33 **F. Constantinescu**, M. Nitescu, C. V. Marin, Finding the periodic steady-state of strongly nonlinear circuits by shooting with improved exponential extrapolation, Analele Universitatii din Oradea, Fascicola Electrotehnica, 2002, pag. 17-23. **Google Scholar**
- 34 **Fl. Constantinescu**, C. Cojocaru, M. Nitescu, and Fl. Hantila. Volterra analysis of a frequency doubler, Buletinul U.P.B.,1993, nr. 3-4, pp. 203-205 **Google Scholar**

- 35 I. Ursac, **F. Constantinescu**, M. Marin A Frequency Reference for Carrier Synthesis in Wireless Standard 802.11 g, The Scientific Bulletin of Electrical Engineering Faculty, Valachia University, Targoviste, vol.20 (2020), No.1, pp.56-61.
- 36 F. Constantinescu, A. G. Gheorghe, G. Barancea, Efficient Frequency Domain Models for Simulation of Nonlinear Power Networks Containing Diode Rectifiers, IEEE XPLORE 2024.

Articole în volumele unor manifestări științifice indexate în alte baze de date internaționale

- 1 St. Zarea and Fl. Constantinescu, The hydraulic calculation of pipeline and canal networks by an iterative method of random search, Proceedings of the Second International IAHR Symposium on Stochastic Hydraulics, Lund Institute of Technology/ University of Lund, Sweden, August 2-4 1976, pp.471-481. Google Scholar IEEE XPLORE 2024
- 2 Florin Constantinescu and Miruna Nitescu, Computer simulation as a teaching tool for uncustomary behavior of nonlinear circuits, Proceedings of Computer-Aided Engineering Education Conference 1993 (CAEE'93), p. 393-398 .British Library UIN: ETOCCN014388412
- 3 F. Constantinescu and M. Nitescu, A new approach to symbolic pole computation, European Conference on Circuit Theory and Design (ECCTD'95), Istanbul, August 27- September 1, 1995, pp. 655-658. Inspec 5884020,
- 4 Fl. Constantinescu, M. Nitescu, Finding the symbolic expressions of the poles/zeros belonging to a region of the complex plane, European Conference on Circuit Theory and Design (ECCTD'97), Budapest, August 31- September 3, 1997. Inspec 6358858
- 5 Fl. Constantinescu, Miruna Nitescu, Computation of symbolic pole/zero expressions for analog circuit design, SMACD'96, Leuven, Belgie, October 9-11, 1996. Google Scholar
- 6 F. Constantinescu, M. Nitescu, M. Iordache, L. Dumitriu, R. Munteanu, A. Botinant, Selection of the best hierarchical structure analysis problems, Worksoop on Symbolic Methods and Applications to Circuit Design (SMACD'98), Kaiserslautern, Germany, October 8-9, 1998. Google Scholar
- 7 Fl. Constantinescu, A. Ionescu, Miruna Nitescu, A new extrapolation method for fast finding of the periodic steady state in nonlinear circuits, Symposium on Nonlinear Theory and Applications (NOLTA'98), Crans-Montana, Switzerland, September 14-17, 1998. Google Scholar
- 8 F. Constantinescu, M. Nitescu, A multi-rate method for finding the periodic steady-state of nonlinear high speed circuits, Proceedings of European Conference on Circuit Theory and Design (ECCTD'99), vol.2, pp. 767-770. Inspec: 7018399
- 9 F. Constantinescu, M. Nitescu, A new multi-rate method for analysis of RF-IC circuits, Proceedings of the Signals, Circuits and Systems Conference (SCS'99), Iasi 1999, pp.91-94. Inspec 6670005
- 10 Fl. Constantinescu, M. Nitescu, M. Iordache, Lucia Dumitriu, Finding Approximative Symbolic Pole/Zero Expression using the Eigenvalue Computation for State-Like Matrices, Proc. of SMACD 2000, Oct. 12-13 2000, Lisbon, Portugal, pp. 79-83. Google Scholar
- 11 Florin Constantinescu, Miruna Nitescu, Mihai Iordache, Lucia Dumitriu, A Program for the Computation of the Approximative Pole/Zero symbolic expressions, Advanced Topics in Electrical Engineering 2000, 8 Dec. 2000, "Politehnica" University of Bucharest, Faculty of Electrical Engineering. Google Scholar
- 12 F. Constantinescu, M. Nitescu, C. V. Marin, SPICE Models for Two-rate Computation of the Periodic Steady-state in Nonlinear RF-IC Circuits, Proc. of the International Symposium on Nonlinear Theory and its Applications NOLTA 2000, Dresden, Germany, Sept. 17 -21 2000, pp. 213-216. Google Scholar
- 13 F. Constantinescu, M. Nitescu, C.V. Marin, Computation of the periodic steady state in RF-IC circuits using fast envelope prediction, Proceedings of SCS 2001, Iasi, July 10-11, 2001, pp. 217-220. Inspec 14147294
- 14 Florin Constantinescu, Miruna Nitescu, Mihai Iordache, Lucia Dumitriu, A program for the computation of the approximate symbolic pole/zero expressions, Proceedings of ECCTD'01, Espoo, Finland 28-31 august 2001, vol. I, pp. 197-200. British Library UIN: ETOCCN041595905
- 15 Constantinescu F., Nitescu M., Marin C. V., Marin D., "Approximate symbolic pole expresions – Validity in the design space", 7th International Workshop on Symbolic Methods and Applications to Circuit Design SMACD Sinaia, October 10-11, 2002, pp. 43-46, British Library, UIN ETOCCN055539102

- 16 Miruna Nitescu, Florin Constantinescu, Constantin Viorel Marin, Symbolic Simulation- An Aid to Teach Circuit Theory Proc. of SMACD 2002-10-11 October, Sinaia, Romania, pp. 130-134. Google Scholar British Library, UIN ETOCCN055539272
- 17 Constantinescu, F.; Nitescu, M.; Munteanu, A., Symbolic Computation-A Teaching Aid to Circuit Synthesis, Proc. of SMACD 2002-10-11 October, Sinaia, Romania, pp. 134-136. Google Scholar
- 18 F. Constantinescu, M. Nitescu, C.V. Marin, D. Marin, Computation of simple symbolic pole expressions, Proceedings of ATEE 2002, pp.35-38. Google Scholar.
- 19 F. Constantinescu, C. V. Marin, M. Nitescu, D. Marin, Parameter identification using symbolic pole/zero expressions, European Conference on Circuit Theory and Design (ECCTD'03), Poland, September 1-4, 2003. Inspec 7854709
- 20 Constantinescu F., Marin C., V., Nitescu M., Marin D., Parameter Identification for the Transverse Mode Equivalent Circuit of an Isolation Transformer Simpozionul National de Electrotehnica Teoretica SNET'2003 Bucuresti, Iunie 18 2003 ISBN 973-652-800-6 pg. 35-38 Google Scholar
- 21 Constantinescu F., Nitescu M., Marin C., V., Marin D., Symbolic Computation Laboratory For Circuit Analysis And Synthesis Simpozionul National de Electrotehnica Teoretica SNET'2003 Bucuresti, Iunie 18 2003 ISBN 973-652-800-6 pg. 51-54. Google Scholar
- 22 F Enache, G Gavrila, F Constantinescu, Time domain and frequency domain steady state computation of nonlinear circuits, Simpozionul National de Electrotehnica Teoretica, Bucuresti, 22-23 octombrie 2004. Google Scholar
- 23 Al. Gheorghe, Florin Constantinescu, Daniel Ioan, Miruna Nitescu, „Modele pasive de ordin redus ale circuitelor de mari dimensiuni de tip RC”, SNET '04, Simpozionul National de Electrotehnica Teoretica, Bucuresti, 22-23 octombrie 2004. Google Scholar
- 24 Nitescu M., Marin C.V., Constantinescu F., “Teaching Circuit Theory Using Symbolic Simulation”, SNET 2004, ISBN 973-718-096-8, pag.259-263, Google Scholar
- 25 F. Constantinescu, C.V. Marin, M. Nitescu, A Method for parameter identification of linear circuits, Proceedings of 7th International Conference of Applied and Theoretical Electricity (ICATE), October 14-15, 2004, Herculane, pp.46-49. Google Scholar
- 26 Florin Constantinescu, Al. Gheorghe, Daniel Ioan, Miruna Nitescu - „A new approach to the computation of passive reduced order models of RC circuits” ATEE '04, Advanced Topics in Electric Engineering, Bucuresti, 23-24 November 2004. Google Scholar
- 27 Al. Gheorghe, Florin. Constantinescu, “Steady State Analysis Implementation Using SPECTRE RF Sensitivity Computation”, Simpozionul National de Electrotehnica Teoretica, Bucuresti 12-13 mai 2005. Google Scholar
- 28 F Constantinescu, M Nitescu, CV Marin, A glimpse into some aspects of nonlinear circuit analysis, Simpozionul National de Electrotehnica Teoretica, Bucuresti 12-13 mai 2005, pp. 12-14. Google Scholar
- 29 F. Constantinescu, Al.-G. Gheorghe, M. Nitescu, „Large signal analysis of RF circuits – an overview”, Proceedings of ATEE: “Advanced Topics in Electrical Engineering”, Politehnica University, Bucharest, Romania, November 24-25, 2006. Google Scholar
- 30 M. Nitescu, F. Constantinescu, Al.-G Gheorghe, Fast solving of a linear parametric a.c. model using a symbolic admittance expression, Proceedings of the Workshop on Symbolic Methods and Applications to Circuit Design (SMACD) 2006 October 12-13, Florence, Italy, pp. 16-20. British Library, UIN ETOCCN063362437
- 31 F. Constantinescu, M. Nitescu, A. G. Gheorghe, New Circuit Models for Power BAW Resonators, Proceedings of Xth International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design (SM2ACD 2008), Institut für Mikroelektronik- und Mechatronik-Systeme GmbH, Erfurt, Germany, October 7-8, 2008, pp.216-220. Scopus 2-s2.0-84906056801
- 32 A. G. Gheorghe, C. V. Marin, F. Constantinescu, M. Nitescu, A new RC model for body cell mass prediction, Proceedings of Xth International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design (SM2ACD 2008), Institut für Mikroelektronik- und Mechatronik-Systeme GmbH, Erfurt, Germany, October 7-8, 2008, pp.221-226. Scopus 2-s2.0-84906057343
- 33 M. Maricar, F. Constantinescu, M. Nitescu, 3D Electromechanical Field Models of AlN BAW Resonators, Proceedings of Xth International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design (SM2ACD 2008), Institut für Mikroelektronik- und

Mechatronik-Systeme GmbH, Erfurt, Germany, October 7-8, 2008, pp. 227-230. Scopus 2-s2.0-84906060733

- 34 F. Constantinescu, M. Nitescu, A. G. Gheorghe, - "New Nonlinear Circuit Models for Power BAW Resonators", Politehnica University, Romania, Proceedings of IEEE ICCSC 2008, 26-28 mai 2008, Shanghai, China. Inspec 10052207
- 35 Al. G. Gheorghe, C. V. Marin, F. Constantinescu, M. Nitescu, "Synthesis of a new RC model for body cell mass prediction", Simpozionul Național de Electrotehnică Teoretică (SNET), 5-7 iunie 2008, București. Google Scholar
- 36 I.F. Hantila, F. Constantinescu, M. Maricar, C. Ifrim, A New Algorithm for Frequency Domain Analysis of Nonlinear Circuits, Proceedings of the IASTED International Conference on Circuits and Systems, August 18 – 20, 2008 Kailua-Kona, HAWAII, USA, p. 159-163. German National Library of Science and Technology
- 37 Al. G. Gheorghe, F. Constantinescu, M. Nitescu, Error control in circuit transient analysis, 2009 IEEE International Conference on Electronics Circuits and Systems, Medina Hammamet, Tunisia, December 13-16, 2009. Inspec 11142119
- 38 F. Constantinescu, M. Nitescu, A.-G. Gheorghe, Modeling and Simulation of Power BAW Resonators and Filters, Proceedings of XI International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design (SM2ACD 2010), October 5-6, 2010, Tunis-Gammarth, Tunisia. Inspec 11698763
- 39 Florin Constantinescu, Miruna Nitescu and Alexandru Gabriel Gheorghe, Circuit Models for Power BAW Resonators, 2010 IEEE 26-th Convention of Electrical and Electronics Engineers in Israel, November 17-20, 2010, Eilat, Israel. Inspec 11695919
- 40 Florea Ioan Hantila, Mihai Maricar, Florin Constantinescu, Radu Ciuceanu, A new method for time domain computation of the steady state in nonlinear circuits, IEEE COMCAS 2011, Tel Aviv; Israel, November 7-9, 2011 Inspec 12442413
- 41 G. Stroe, A. Florea, O. Llopis, F. Constantinescu, M. Nitescu, Measurement of nonlinear effects in filters based on BAW resonators with AlN, International Symposium on Electrical Engineering (ISEE'11), Targoviste, Romania, November 22-23. GS
- 42 G. Stroe, A. Florea, O. Llopis, F. Constantinescu, A. G. Gheorghe, M. Nitescu, Measurement of Nonlinear Effects for Anti-series and Anti-parallel Connections of Power Bulk Acoustic Wave Resonators, IEEE COMCAS 2011, Tel Aviv; Israel, November 7-9, 2011 102. IEEE XPLORE DOI: 10.1109/COMCAS.2011.6105806
- 43 F. Constantinescu, A. G. Gheorghe, G. Stroe, M. Nitescu, O. Llopis, A nonlinear circuit model for a three BAW resonator filter working at high power level, International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design, Seville, Spain, September 19-21, 2012. Inspec 13101517
- 44 A. G. Gheorghe, F. Constantinescu, M. Nitescu, Transient computation of DC-DC converters using a new envelope following method, International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design, Seville, Spain, September 19-21, 2012. Inspec, 13101516
- 45 A. G. Gheorghe, F. Constantinescu, Pole/zero computation for linear circuits, 6-th European Symposium on Computer Modeling and Simulation, Malta, Nov. 14-16, 2012. Inspec 13101517
- 46 A. G. Gheorghe, F. Constantinescu, G. Stroe, M. Nitescu, O. Llopis, Behavioral models for the anti-series and anti-parallel connections of two power BAW resonators, 6-th European Symposium on Computer Modeling and Simulation, Malta, Nov. 14-16, 2012. Inspec 13244687
- 47 F. Constantinescu, A. G. Gheorghe, M. Nitescu, Convergence problems in transient analysis of circuits containing MEMS, Simpozionul Național de Electrotehnică Teoretică (SNET '12), 14 Decembrie 2012, București. Google Scholar
- 48 C. Brinzei, F. Constantinescu, I. Ursac, Digital mixer with current steering DAC, Simpozionul Național de Electrotehnică Teoretică (SNET '12), 14 Decembrie 2012, București. Google Scholar
- 49 Constantinescu F., Nitescu M., Enache F.: 2D time domain analysis of nonlinear circuits using pseudo-envelope initialization, Proc. 2-nd International Conference on Circuits and Systems for Communication, Moscow, 2004. Google Scholar

- 50 F. Constantinescu, M. Nitescu, C.V. Marin, D. Marin, Computation of simple symbolic pole expressions, Proceedings of Advanced Topics in Electrical Engineering 2000, pp.35-38. Google Scholar
- 51 M. Nitescu, F. Constantinescu, Al.-G. Gheorghe, A.C. Analysis of Circuits with “Energetic” Parametric Models, Proceedings of ATEE: Advanced Topics in Electrical Engineering, Politehnica University, Bucharest, Romania, November 24-25, 2006, pp. 195-198. Google Scholar.
- 52 F. Constantinescu, A. G. Gheorghe, A. Florea, M. Nitescu, “The Nonlinear artificial transmission line model for power BAW resonators”, Simpozionul Național de Electrotehnică Teoretică (SNET ’10), 3-4 decembrie 2010, București. Google Scholar
- 53 F. Constantinescu, M. Nitescu, A. G. Gheorghe, Simulation of nonlinear effects in power BAW resonators and filters, SNET 2007 Simpozionul National de Electrotehnica Teoretica, Bucuresti 12 - 14 octombrie 2007. Google Scholar
- 54 Al. G. Gheorghe, F. Constantinescu, M. Nitescu, “A comparison between envelope analysis implementations”, SNET 2007 (Simpozionul National de Electrotehnica Teoretica), Bucuresti 12 - 14 octombrie 2007. Google Scholar
- 55 Fl. Constantinescu, M. Nitescu, Al.-G Gheorghe, Parameter identification for a behavioral model of a nonlinear BAW resonator, , Proceedings of the Workshop on Nonlinear Dynamics of Electronic Systems (NDES) June 6-9 2006, Dijon, France, pp. 14-17. Google Scholar
- 56 A. Gheorghe, **F. Constantinescu**, M. Nitescu, Interpolarea formei de unda in analiza tranzitorie, Simpozionul Național de Electrotehnică Teoretică (SNET ’10), Universitatea Politehnica Bucuresti, București, 3-4 decembrie 2010. Google Scholar
- 57 **F. Constantinescu**, Al. G. Gheorghe, M. Nitescu, „The Energy Balance Error for Circuit Transient Analysis”, Advanced Topics in Electrical Engineering, ATEE’08, November 20-21, 2008, Bucharest, Romania, pp. 304-307. Google Scholar
- 58 Fl. Constantinescu, M. Nitescu, An estimation of the efficiency of SoE algoritms for symbolic analysis, Proc. of SMACD 2000, October 12-13, 2000, Lisbon, Portugal, pp. 51-55. **Google Scholar**
- 59 Florin Constantinescu, Miruna Nitescu, Comparatie intre un algoritm SoE pseudo-optimal si algoritmul lui Char pentru enumerarea arborilor, Advanced Topics in Electrical Engineering ATEE 2000, 8 Dec. 2000, “Politehnica” University of Bucharest, Faculty of Electrical Eng., pag. 19-24. Google Scholar
- 60 Al. G. Gheorghe, M. Nitescu, F. Constantinescu, „Circuit Models for Anti-series and Anti-parallel Connections of Power BAW Resonators”, ATEE’08, November 20-21, 2008, Bucharest, Romania, pp. 308-311. **Google Scholar**
- 61 A. Florea, O. Llopis, M. Nitescu, F. Constantinescu, Measurement of nonlinear effects in power BAW resonators, Simpozionul National de Electrotehnica Teoretica (SNET’ 09) , 27 Noiembrie 2009, p. 203-208. **Google Scholar**
- 62 Al. G. Gheorghe, F. Constantinescu, Rezolvarea numerica a circuitelor rezistive care contin modele companion, Simpozionul National de Electrotehnica Teoretica (SNET’ 09) , 27 Noiembrie 2009, p. 93-98. **Google Scholar**
- 63 F. Constantinescu, A. Gheorghe, “A new envelope following algorithm”, Simpozionul Național de Electrotehnică Teoretică (SNET ’10), 3-4 decembrie 2010, București. Google Scholar
- 64 F. Hantila, F. Constantinescu, M. Maricar, M. Nitescu, Al. G. Gheorghe, “ UN ALGORITM NOU PENTRU ANALIZA CIRCUITELOR NELINIARE IN DOMENIUL FRECVENTEI”, Simpozionul Național de Electrotehnică Teoretică (SNET’08), 5-7 Iunie 2008, București. **Google Scholar**.
- 65 **Fl. Constantinescu**, Sinteza caracteristicilor concave realizate cu diode Zener de un anumit tip, Lucrarile sesiunii stiintifice ale Facultatii de Electrotehnica din I.P.B. si ale I.C.P.E., Oct. 1980, p.226-228. **Google Scholar**
- 66 **Fl. Constantinescu**, C. Cojocaru, M. Nitescu, O aproximare a caracteristicii unei diode varactoare utilizata in analiza Volterra a unui dublor de frecventa, Lucrarile Conferintei Anuale de Semiconductoare, Timisu de Sus, 10-13 oct. 1984, p. 235-238. **Google Scholar**
- 67 Miruna Nitescu, Fl. Constantinescu, Symbolic vs. numerical methods for solving repetitive computation problems, SMACD’96, Leuven, Belgie, October 9-11, 1996. **Google Scholar**

- 68 F. Constantinescu, M. Nitescu, Determinarea expresiei simbolice aproximative a frecvenței de tăiere a modului TM într-un ghid de unda cu secțiune arbitrară, Workshop “Metode simbolice în Electrotehnica”, Catedra de Electrotehnica, Universitatea Politehnica București, 5 Decembrie 1997. **Google Scholar**
- 69 F. Constantinescu, A. Ionescu, M. Nitescu, Fast finding of the periodic steady state in nonlinear circuits by exponential extrapolation, Advanced Topics in Electrical Engineering, December 4, 1998, Politehnica University of Bucharest, Bucharest, Romania, pp. 92-98. **Google Scholar**
- 70 F. Constantinescu, C.V. Marin, M. Nitescu, Parameter Identification using Symbolic Pole/Zero Expressions of Linear Circuits, International Workshop on Symbolic Methods and Application on Circuit Design, Wrocław, Polonia, 23-24 septembrie 2004 **Google Scholar**
- 71 F. Constantinescu, Al. Gheorghe, D. Ioan, M. Nitescu, „Building Reduced Order Circuit Models via Internal Node Elimination”, SMACD '04, International Workshop on Symbolic Methods and Application on Circuit Design, Wrocław, Polonia, 23-24 septembrie 2004.

Reviste Naționale NEINDEXATE

- 1 M. Preda, Fl. Constantinescu, Metoda generală de sinteză topologică a multiporturilor active fără transformatoare ideale, Buletinul Inst. Politehnic "Gh. Gheorghiu-Dej" București, t. 37, nr.2 (mai-august 1975) p.75-84.
- 2 I. Iacob, A.M. Preda, M. Nitescu, Fl. Constantinescu, N. Constantiniu, Model de configurație pentru laborator destinat disciplinei "Masurări electrice și electronice", Buletinul Roman de Informatică și Tehnică de Calcul, nr.5, 1989, p.96-100.
- 3 **Fl. Constantinescu**, M. Nitescu, and Fl. Hantila. Synthesis of a nonlinear transfer characteristic using Zener diodes of a given type, Buletinul U.P.B., nr.1-2, 1992, p.181-184.
- 4 Fl. Hantila, C. Trambitas, and **Fl. Constantinescu**, Iterative solving of integral equations of eddy currents, Buletinul U.P.B., nr.3-4, 1992, p.147-153.
- 5 Fl. Hantila, C. Ifrim, and **Fl. Constantinescu**, Eddy current losses in axial airgap DC machines, Buletinul U.P.B., 1993 , nr. 3-4, pp. 183-188.
- 6 **Fl. Constantinescu** and Miruna Nitescu, A simplified presentation of uncustomary behavior of nonlinear circuits, Buletinul U.P.B., nr.3-4, 1992, p. 179-184.
- 7 **Fl. Constantinescu**, M. Nitescu, Fl. Hantila and A. Georgescu, A finite difference method for computation of the periodic steady state in nonlinear circuits, Revista Academiei Tehnice Militare, 1994, no.1, pp. 158-163.
- 8 M. Nitescu și F. Constantinescu, Metode simbolice pentru proiectarea asistată de calculator a circuitelor analogice integrate, Electrotehnica, Electronica, Automatica, anul 38, nr. 9-10 (sept. 1994) p. 1-3.
- 9 **Fl. Constantinescu** and M. Nitescu, Some properties of single-element-kind circuits in the periodic steady state, Buletinul U.P.B., 1993, nr.1-2, p. 121-128.

Comunicări NEINDEXATE

- 1 **Fl. Constantinescu**, Fl. Hantila și I. Bahrin, Performanțele de separare ale unui separator magnetic cu șase rotoare, Lucrările Simpozionului de Informatică și Conducere, Cluj-Napoca, Mai 1980, p. 121-123.
- 2 M. Nitescu and Fl. Constantinescu, A program for symbolic analysis of electronic circuits, 6-th International Conference on Control Systems and Computer Science, Bucharest 1985 (preprints) vol.II p.406-410.
- 3 Fl. Constantinescu, Sinteza caracteristicilor de intrare concave realizate cu structuri serie-paralel care conțin diode Zener de un anumit tip, 6-th International Conference on Control Systems and Computer Science, Bucharest 1985 (preprints) vol.II, p. 411-415.
- 4 Florin Constantinescu și Miruna Nitescu, O metodă de sinteză a unei caracteristici neliniare de transfer, Lucrările Conferinței Anuale de Semiconductoare, ediția a 10-a, Sinaia, 7-10 Octombrie 1987, p.421-424.
- 5 Miruna Nitescu și Florin Constantinescu, Analiză simbolică a circuitelor liniare neciproc partitionate, Conferința Națională de Energetică, București 1988.

- 6 Florin Constantinescu and Miruna Nitescu, Symbolic computation as a tool of linear circuit analysis over a wide range of frequencies. Proceedings of the Workshop on Symbolic Methods and Applications to Circuit Design, Firenze, October 8-9 1992, pp. 227-231.
- 7 **Florin Constantinescu** and Miruna Nitescu, Efficient distortion computation over a wide range of frequencies, Workshop on Nonlinear Circuits and Systems, Polytechnic Institute of Bucharest, October 31-st 1992, pp.7-8.
- 8 F. Constantinescu and M. Nitescu, Symbolic analysis and design of analog circuits using a simple formula, Proceedings of the Signals, Circuits and Systems Conference (SCS'93), Iasi 1993, p. 1-6.
- 9 **Fl.Constantinescu**, Miruna Nitescu, A.Georgescu, Fast computation of the steady state of a nonlinear circuit, OPTIM'94, Universitatea Transilvania Brasov, Mai 1994 p. 67-72.
- 10 M. Nitescu, Fl. Constantinescu, A method of symbolic analysis for teared electrical circuits, Simpozionul de Electronica si Telecomunicatii, Timisoara, 29-30 sept. 1994 , p.73-78.
- 11 Fl. Constantinescu, M. Nitescu, Fl. Hantila si A. Georgescu, Analysis of nonlinear circuits in the periodic steady-state by means of a finite difference method, Simpozionul de Electronica si Telecomunicatii, Timisoara, 29-30 sept. 1994 , p. 67-72.
- 12 Fl. Constantinescu, M. Nitescu, Fl. Hantila, and A. Georgescu, Linear models for the periodic steady-state computation in nonlinear circuits, Workshop on Nonlinear Dynamics of Electronic Systems, , Poland, 29- 30 July 1994 pp. 169- 172.
- 13 Florin Constantinescu, Miruna Nitescu and Andreia Nitescu-Henry, Symbolic analysis taking into account the symbolic parameters one by one, Workshop on Symbolic Methods and Applications to Circuit Design (SMACD'94), Sevilla, Spain, October 6-7, 1994 , pp. 353-357.
- 14 Miruna Nitescu, Florin Constantinescu, and Andreia Nitescu-Henry, An estimation of the computational effectiveness in hierarchical symbolic analysis, Workshop on Symbolic Methods and Applications to Krakow Circuit Design (SMACD'94), Sevilla, Spain, October 6-7, 1994 pp. 347-351.
- 15 M. Nitescu si F. Constantinescu, Alegerea structurii ierarhice optime in problemele de analiza simbolica a circuitelor, Sesiunea de Comunicari Stiintifice , Catedra de Electrotehnica U. P. B. , 5-6 mai 1995, p.247-254.
- 16 **F. Constantinescu** and M. Nitescu, Approximation procedures for finding symbolic pole expressions, International Symposium on Signals, Circuits, and Systems, Iasi, October 19-21 1995, pp.263-266.
- 17 **F. Constantinescu** and A. Ionescu, A method for fast computation of the periodic steady state in bipolar transistor circuits, International Symposium on Signals, Circuits, and Systems, Iasi, October 19-21 1995, pp. 267-270.
- 18 Florin Constantinescu, Miruna Nitescu, 2D time domain methods for analysis of strongly nonlinear electromechanical systems, Proceedings of the 3-rd Japan Romania Joint Seminar on Applied Electromagnetics and Mechanical Systems, September 11-15, 2001, Felix Spa, Oradea, Romania, pp. 43-48.
- 19 **Florin Constantinescu**, Miruna Nitescu, Mihai Iordache, Lucia Dumitriu, A program for the computation of the approximate pole/zero expressions for linear electromechanical systems, Proceedings of the 3-rd Japan Romania Joint Seminar on Applied Electromagnetics and Mechanical Systems, September 11-15, 2001, Felix Spa, Oradea, Romania, pp. 49-54.
- 20 M. Iordache, L. Dumitriu, M. Nitescu, F. Constantinescu, An efficient symbolic analysis method for large-scale analog circuits, Proceedings of the 2-nd Flemish-Romanian Workshop on Advances in Numerical Computation Methods in Electromagnetism, Gent, Belgium, May 15-16, 2003, pp. 110-124.
- 21 F. Constantinescu, Al. Gheorghe, D. Ioan, M. Nitescu, „Building Reduced Order Circuit Models via Internal Node Elimination”, '04, International Workshop on Symbolic Methods and Application on Circuit Design, Wroclaw, Polonia, 23-24 septembrie 2004.
- 22 Florin Constantinescu, Miruna Nitescu, Anca Ionescu When is shooting appropriate in steady state analysis of nonlinear circuits, Proceedings of NDES 05, Potsdam, 18-24 Sept. 2005.
- 23 F. Constantinescu, Al. G. Gheorghe, M. Nitescu, A Time Step Choice Algorithm for Transient Analysis of Circuits, 6-th Japanese- Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials (JAPMED'6), Politehnica University Bucharest, July 27-29 2009, Bucharest Romania, pp. 91-92.

- 24 Al. G. Gheorghe, D. Chiriac, F. Constantinescu, A reduced order circuit model for an interdigital capacitor, 6-th Japanese- Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials (JAPMED'6), Politehnica University Bucharest, July 27-29 2009, Bucharest Romania, pp. 203-204

Lucrări invitate susținute la conferințe

- 1 F. Constantinescu, M. Nătescu, A. G. Gheorghe, M. Maricar, Circuit and Field Models for Power BAW Resonators (invited paper), European Conference on Circuits and Systems for Communications (ECCSC'10) November 23–25, 2010, Belgrade, Serbia.
- 2 F. Constantinescu, A.G. Gheorghe, M. Nătescu, M. E. Marin, O. Taus, Behavioral Models of AlN Power BAW Resonators and Filters, International Symposium on Electrical and Electronics Engineering, Galati, Romania, October 20-22, 2017.

Granturi/ proiecte câștigate prin competiție

Granturi câștigate prin competiție ca director/responsabil de proiect

Granturi internaționale câștigate prin competiție ca director/responsabil de proiect

- 1 MOBILIS -Mixed SiP and SoC Integration of Power BAW Filters for Digital Wireless Transmissions (FP6), Director of the Politehnica University team, 2006-2009.
- 2 Metode simbolice de învățare în ingineria electrică și electronică, Proiect pilot finanțat de Banca Mondială și Guvernul României, 1999-2002

Granturi naționale câștigate prin competiție ca director/responsabil de proiect

- 1 Modele neliniare de câmp și de circuit pentru rezonatoarele BAW de putere, proiect IDEI finanțat de Consiliul Național al Cercetării Științifice din Învățământul Superior, (2009-2011).
- 2 Simularea eficienței a circuitelor integrate neliniare de RF, beneficiar Consiliul Național al Cercetării Științifice din Învățământul Superior, 2005-2007.
- 3 Simularea circuitelor neliniare de radiofrecvență utilizând două variabile temporale”, Tema 7, Cod CNCSIS : 416, 2002-2004.
- 4 Metode noi de simulare a eficienței a circuitelor neliniare de radiofrecvență, Tema nr. 71, cod CNCSU 829, beneficiar Consiliul Național al Cercetării Științifice din Învățământul Superior, 1999-2000.
- 5 Algoritm și program de simulare a circuitelor integrate de radiofrecvență, Contract ANSTI, Tema B40, 1999.
- 6 Metode simbolice și numerice pentru determinarea frecvențelor proprii ale sistemelor liniare, Contract 3042/ Tema B7, Beneficiar; Academia Română, 1997-2000.
- 7 . Metode simbolice pentru analiză și proiectarea circuitelor analogice. Grant CNCSU, Contract nr. 4001-b/ Tema 126, 1995-1996.
- 8 Regimul periodic permanent al circuitelor trifazate neliniare. Faza II: Elaborarea programelor de calcul. Contract cu Ministerul Învățământului, 1994.
- 9 Regimul periodic permanent al circuitelor trifazate neliniare. Faza I: Metode de calcul al regimului periodic permanent în circuitele neliniare. Contract cu Ministerul Învățământului, 1993.

Granturi naționale câștigate prin competiție ca membru în echipă

- 1 Traectorii în câmp electromagnetic, proiect IDEI finanțat de Consiliul Național al Cercetării Științifice din Învățământul Superior, (2009-2011).
- 2 Metode noi de diagnosticare a defectelor în circuitele analogice, proiect IDEI finanțat de Consiliul Național al Cercetării Științifice din Învățământul Superior, (2009-2011).
- 3 Metode noi de analiză a circuitelor în domeniul timpului și în domeniul frecvenței, proiect IDEI finanțat de Consiliul Național al Cercetării Științifice din Învățământul Superior, (2009-2011).
- 4 Sinteză modelelor comportamentale de circuit ale rezonatoarelor de putere cu unde acustice de volum pentru telefonie mobilă, 2006-2008.

- 5 Metode simbolice noi pentru analiza si proiectarea circuitelor analogice integrate, Contract 33784/2002, Tema 24, CNCSIS 2002-2004.
- 6 Metode simbolice in proiectarea circuitelor analogice integrate de mica putere, Contract 33084/1999, Tema 66, CNCSIS.
- 7 Utilizarea calculului numeric al cimpului electromagnetic in cresterea performantelor produselor electrotehnice, Catedra de Electrotehnica, 1991.

Contracte de cercetare/consultanță (valoare echivalentă de minimum 2.000 euro)

Contracte de cercetare/consultanță - responsabil

- 1 Sistem de lectii asistate de calculator pentru lucrarile de laborator la disciplina "Masurari electrice si electronice". Contract cu Institutul de Tehnica de Calcul si Informatica, 1988
- 2 Calculul cimpului magnetic in aparatele de masura magnetoelectrice. Catedra de Electrotehnica I, 1979-1980
- 3 Calculul senzitivitatilor in circuitele electronice cu aplicatii la determinarea tolerantelor componentelor etajului amplificator de videofrecventa din televizorul portabil. Catedra de Electrotehnica I, 1976
- 4 Metoda de calcul al circuitelor neliniare in regim tranzitoriu cu aplicatii la studiul detectorului de videofrecventa din receptoarele de TV. Catedra de Electrotehnica I, 1976
- 5 Metode de calcul pentru retelele de conducte si canale. Laboratorul de Hidraulica din I.P.B., 1972
- 6 Model analogic pentru retelele de alimentare cu apa. Centrul de Cercetari Hidraulice, 1971.
- 7 Tranzistormetru portabil: studiu tehnico-economic si studiu de laborator. Institutul de Cercetari Electronice, 1969.

Contracte de cercetare/consultanță - membru în echipă

- 1 Termosutien pentru detectia si localizarea cancerului de san 2016-2018
- 2 Proiectarea AO cu metode simbolice, Grant de excelenta, Universitatea Politehnica Bucuresti, 2017-2018
- 3 Bilantul electroenergetic la Intreprinderea "Munca Textila" Bucuresti. Catedra de Electrotehnica I, 1985-1987
- 4 Rezolvarea problemelor de cimp magnetic stationar cu aplicatii la masinile electrice si separatoarele magnetice. Catedra de Electrotehnica I, 1985
- 5 Analiza consumului de energie electrica la Intreprinderea de Osii si Boghiuri Bals (sectia otelarie). Catedra de Electrotehnica I, 1984
- 6 Bilantul electroenergetic al Intreprinderii de nutreturi combinate Bragadiru. Catedra de Electrotehnica I, 1982-1983
- 7 Determinarea performantelor si optimizarea caracteristicilor constructive ale separatoarelor magnetice. 1980-1981
- 8 Studiul transiterii supratensiunilor in transformatoare Catedra de Electrotehnica I, 1978-1979
- 9 Separatoare magnetice cu mai multe rotoare. Catedra de Electrotehnica I, 1979-1980 (contract 304/1980).
- 10 Separatoare magnetice pentru nisipuri aluvionare: calculul cimpului magnetic si al performantelor de separare. Catedra de Electrotehnica I, 1977-1978
- 11 Studiul cimpului magnetic si al fenomenelor asociate in zona frontala a turbogeneratoarelor de mare putere. Catedra de Electrotehnica I, 1973-1978