

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Ingineria Sistemelor Biotehnice

Departamentul: Electrotehnica

Nume Prenume: GHEORGHE Alexandru Gabriel

Gradul didactic: Conferențiar

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

“Metode noi de analiză a circuitelor neliniare de RF”, conducător științific: Prof. Dr. Ing. Florin Constantinescu, Universitatea POLITEHNICA din București, Facultatea de Inginerie Electrică.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Al. G. Gheorghe, “Culegere de probleme de teoria circuitelor” Editura POLITEHNICA PRESS, 2014, ISBN 978-606-515-547-3, 177 pg.
2. Al. G. Gheorghe, F. Constantinescu, “New topics in simulation and modeling of RF circuits” The River Publishers Series in Circuits and Systems, octombrie 2016, ISBN: 9788793379466, eBook ISBN: 9788793379459.
3. Alexandru Gabriel Gheorghe, Florin Constantinescu, Miruna Nițescu and Mihai Eugen Marin (January 20th 2020). Circuit Models of Bioelectric Impedance, IntechOpen, DOI: 10.5772/intechopen.91004.
4. Capitol de carte: Electrical circuits as dynamical systems (Qualitative and Computational Aspects of Dynamical Systems), Alexandru G. Gheorghe, Mihai E. Marin, IntechOpen, 2022, 25pgs, ISBN 978-1-80356-567-5.
5. Capitol de carte: Frequency Domain Models of Nonlinear Loads in Power Systems (Harmonics in Power Systems), Florin Constantinescu, Alexandru G. Gheorghe, Mihai E. Marin and Florin Roman Enache, IntechOpen, Published: 26 November 2023, 38pgs, DOI: 10.5772/intechopen.1002766

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani (reviste)

1. M.E. Marin, F. Constantinescu, A. G. Gheorghe, C. Brinzei, “An 8-bit current-steering digital to analog converter with calibration capabilities for wireless communications” REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, Volume: 62, Issue: 4, Pages: 394-398, Published: OCT-DEC 2017, ISSN: 0035-4066, WOS:000439087200001

2. A. G. Gheorghe, M. E. Marin, "Two Stage Op-Amp Design Verification and Optimization by Symbolic Computation" WSEAS Transactions on Circuits and Systems, ISSN / E-ISSN: 1109-2734 / 2224-266X, Volume 17, 2018, Art. #22, pp. 180-186.
3. A. G. Gheorghe, M. E. Marin, "Model Parameter Identification and Validation for Energy Saving Light Bulbs" <https://doi.org/10.37394/23201.2020.19.24>, WSEAS Transactions on Circuits and Systems, ISSN / E-ISSN: 1109-2734 / 2224-266X, Volume 19, 2020, Art. #24, pp. 212-221.
4. CM. Gheorghe, IA. Macinic, AG. Gheorghe, OBLONG CORE CROSS-SECTION IMPACT ON POWER TRANSFORMER CHARACTERISTICS, REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, WOS:000870731700010

(conferinte)

5. F. Constantinescu, M. Nitescu, A. G. Gheorghe, Mi. 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, <http://iisa2014.unipi.gr> (ISI - THOMSON REUTERS)
6. M. E. Marin, C. Brînzei, F. Constantinescu, Al. G. Gheorghe, I. Ursac, "Design of an 8 bit current-steering DAC for a GSM transmitter", International Symposium on Fundamentals of Electrical Engineering 2014 (ISFEE 2014), University POLITEHNICA of Bucharest, Romania, November 28-29, 2014, DOI: 10.1109/ISFEE.2014.7050565, WOS:000380570500033. <http://ieeexplore.ieee.org>. (ISI - THOMSON REUTERS).
7. F Constantinescu, O. Taus, A. G. Gheorghe, "A new behavioral model for frequency domain analysis of power BAW filters", The 13th International Conference on Engineering of Modern Electric Systems 2015 (ICEMES 2015), Oradea, Romania, 11-12 June 2015, DOI: 10.1109/EMES.2015.7158392, WOS:000363815100005. <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
8. 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. <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
9. 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. <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
10. M. E. Marin, F. Constantinescu, C. Brînzei, Al. G Gheorghe, "Verification of a Calibration Method for Digital to Analog Converters", International Symposium on Fundamentals of Electrical Engineering 2016 (ISFEE 2016), University POLITEHNICA of Bucharest, Romania, June 30 - July 2, 2016, DOI: 10.1109/ISFEE.2016.7803193. <http://ieeexplore.ieee.org>
11. M. E. Marin, F. Constantinescu, O. S. Taus, A. G. Gheorghe, "Intermodulation Products in AlN Power BAW Duplexer Filters", the 13-th International Symposium on Signals, Circuits and Systems,

- ISSCS 2017, Iasi, Romania on July 13 - 14, 2017, pp. 1-4. doi: 10.1109/ISSCS.2017.8034949, IEEEExplore, indexat ISI Accession Number: WOS:000425211500087
12. F. Constantinescu, A. G. Gheorghe, O. S. Taus, M. E. Marin, "Harmonic balance analysis of home appliances power networks", the 14th International Conference on Engineering of Modern Electric Systems, Oradea, Romania, June 1-2 2017, pp. 256-260. doi: 10.1109/EMES.2017.7980428, IEEEExplore, indexat ISI Accession Number: WOS:000427085200061
 13. M. E. Marin, M. Maricaru, F. Constantinescu and A. G. Gheorghe, "Hardware and software approach for teaching automotive networks," 2017 Electric Vehicles International Conference (EV), Bucharest, Romania, 2017, pp. 1-4. doi: 10.1109/EV.2017.8242097, IEEEExplore, indexat ISI Accession Number: WOS:000427815000011
 14. F. Constantinescu, A. G. Gheorghe, M. Eugen Marin, G. Vătășelu, V. Ștefănescu and D. Bodescu, "New Models for Frequency Domain Simulation of Home Appliances Networks," 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2019, pp. 1-5. doi: 10.1109/ATEE.2019.8724985, WOS:000475904500140.
 15. A. G. Gheorghe, F. Constantinescu, M. E. Marin, V. Ștefănescu and G. Vătășelu, "Frequency Domain Models for Nonlinear Home Appliance Devices," 2018 International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 2018, pp. 1-4, doi: 10.1109/ISFEE.2018.8742469, IEEEExplore WOS:000480396400062
 16. A. G. Gheorghe, M. E. Marin, "A Two Stage Op-Amp Phase Margin Symbolic Expression," 22nd International Conference on Circuits, Systems, Communications and Computers (CSCC 2018), pp. 1-4. doi: 10.1051/mateconf/201821002040, Scopus
 17. A. G. Gheorghe, F. Constantinescu and M. E. Marin, "Symbolic Formulas for Settling Time and Phase Margin of Op-Amp with Arbitrary Number of Poles and Zeros," 2018 IEEE XXVII International Scientific Conference Electronics - ET, Sozopol, 2018, pp. 1-4. doi: 10.1109/ET.2018.8549654, IEEEExplore
 18. F. Constantinescu, A. G. Gheorghe, M. E. Marin, G. Vătășelu, V. Ștefănescu, D. Bodescu "New Models for Frequency Domain Simulation of Home Appliances Networks", 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 28-30 March 2019, Electronic ISBN: 978-1-7281-0101-9, USB ISBN: 978-1-7281-0100-2, Print on Demand(PoD) ISBN: 978-1-7281-0102-6, Electronic ISSN: 2159-3604, Print on Demand(PoD) ISSN: 2068-7966, INSPEC Accession Number: 18724323, DOI: 10.1109/ATEE.2019.8724985, WOS:000475904500140.
 19. A. G. Gheorghe, M. E. Marin and D. Bodeșcu, "Parameter Identification and Model Validation for a Compact Fluorescent Lamp," 2020 24th International Conference on Circuits, Systems, Communications and Computers (CSCC), 2020, pp. 201-204, doi: 10.1109/CSCC49995.2020.00043. ieeexplore
 20. 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), NOV 05-07, 2020, Univ Politehnica Buchares, Bucharest, ROMANIA, ISBN: 978-1-7281-9038-9, DOI: 10.1109/ISFEE51261.2020.9756144, WOS: 000812321500014.
 21. A.G. Gheorghe, M. E. Marin, M.D. Dragusin, "New Frequency Domain Models for Multiple Port Devices with Variable Firing Angle", 25th International Conference on Circuits, Systems,

Communications and Computers (CSCC), JUL 19-22, 2021, Platania, GREECE, ISBN: 978-1-6654-2749-4, DOI: 10.1109/CSCC53858.2021.00017, WOS: 000848667100009.

22. A. G. Gheorghe, M. E. Marin and C. G. Bortosu, "Approximate Symbolic Pole/Zero Expressions of a Band-stop Filter," 2021 XXX International Scientific Conference Electronics (ET), 2021, pp. 1-5, doi: 10.1109/ET52713.2021.9579653. ieeexplore
23. A. G. Gheorghe, F. Constantinescu and M. E. Marin, "Time Domain and Frequency Domain Models for Analysis of Nonlinear Power Networks of Home Appliances," 2021 International Symposium on Signals, Circuits and Systems (ISSCS), 2021, pp. 1-4, doi: 10.1109/ISSCS52333.2021.9497428. ieeexplore
24. A. G. Gheorghe, M. Eugen Marin and M. D. Dragusin, "Parameter Identification of Bivariate Polynomials for Frequency Domain Models," 2023 International Conference on Applied Mathematics & Computer Science (ICAMCS), Lefkada Island, Greece, 2023, pp. 100-106, doi: 10.1109/ICAMCS59110.2023.00023. ieeexplore
25. F. Constantinescu, A. Gheorghe and C. G. Barancea, "Efficient Frequency Domain Models for Simulation of Circuits with Diode Rectifiers," 2023 International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 2023, pp. 1-6, doi: 10.1109/ISFEE60884.2023.10636986. ieeexplore

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. -

- Selecție cu maximum 20 lucrări în volume de conferințe

1. -

E. Brevete obținute în întreaga activitate

1. -

Data: 31.04.2025

Semnătura: