

Lista de lucrări s.l. dr. Ing. Radu Mircea Ciuceanu

I. TEZA DE DOCTORAT (T)

T1 Teza de doctorat: “Contribuții privind calculul circuitelor neliniare în regim periodic” – conducător prof. dr. ing. Ioan Florea Hantila, Universitatea „Politehnica” din București, 2015.

II. CĂRȚI PUBLICATE (C)

Ca – R.M. Ciuceanu, I.V. Nemoianu, C.P. Mihai, – “Masini Electrice – fundamente teoretice și functionale”, Editura Politehnica Press, ISBN 978-606-515-925-9, București, 2020.

III. ALTE MATERIALE PUBLICATE (I,D)

I - I. V. Nemoianu, M. Maricar, R.M. Ciuceanu – Culegere de probleme rezolvate de câmp electromagnetic, Editura Matrix Rom, București 2018, ISBN 978-606-25-0390-1.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris1 Mindreanu, IM; Ciuceanu, RM ; Nemoianu, IV, – *Power Flow Balance-Simulations And Experiments In Electrical Networks*, Revue Roumaine des Sciences Technique, serie Electrotehnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 70, Nr.1, pp.53 - 56, Bucurest, 2025, DOI10.59277/RRST-EE.2025.1.9. (WOS: 001459703700009);

Ris2 Mindreanu, IM; Ciuceanu, RM; Nemoianu, IV , – *Demonstrating The Symmetry And Non-Symmetry Components Balance In Grids With Neutral Conductor*, Revue Roumaine des Sciences Technique, serie Electrotehnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 68, Nr.4, pp.413 - 418, Bucurest, 2024 (WOS: 001374734900008);

Ris3 Mindreanu, IM; Ciuceanu, RM; Nemoianu, IV, – *Experimental Assessment Of Consumer Unbalance And Nonlinearity Effects In Three-Phase Networks Without Neutral Conductor*, Revue Roumaine des Sciences Technique, serie Electrotehnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 69, Nr.3, pp.287 - 292, Bucurest, 2024 (WOS: 001319210900005);

Ris4 Tufan, C ; Marin, ME ; Vasilescu, GM ; Ciuceanu, RM ; Maricar, M , – *Dynamic Relaxation In The Iterative Methods For Solving Nonlinear Three-Phase Circuits*, Revue Roumaine des Sciences Technique, serie Electrotehnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 68, Nr.3, pp.289 - 294, Bucurest, 2023 (WOS: 001087001200007);

Ris5 Cristian George Dragomirescu, Radu Mircea Ciuceanu, Maria-Iuliana Dascalu, Iosif Vasile Nemoianu, – *Theory of Catastrophes Regarding the Operation of a DC Electric Motor with Series Excitation*, Revue Roumaine des Sciences Technique, serie Electrotehnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 68, Nr.1, pp.90 - 95, Bucurest, 2023 (WOS: 000973414700017);

Ris6 Iosif Vasile Nemoianu, Cristian George Dragomirescu, Veronica Manescu (Paltanea), Maria-Iuliana Dascalu, Gheorghe Paltanea, Radu Mircea Ciuceanu – *Self-Organizing Equilibrium Patterns of Multiple Permanent Magnets Floating Freely under the Action of a Central Attractive Magnetic Force*, Symmetry, 2022, 14, 4, 795. <https://doi.org/10.3390/sym14040795>, ISSN: 2073-8994 (WOS:000786961300001);

Ris7 Ioan-Cristian Mustață, Laura Bacali, Mihaela Bucur, Radu-Mircea Ciuceanu, Alexandra Ioanid, Alexandra Ștefan – *The evolution of industry 4.0 and its potential impact on industrial engineering and management education*, Revue Roumaine des Sciences Technique, serie Electrotehnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 67, Nr.1, pp.73 - 78, Bucurest, 2022;

Ris8 Gheorghe Paltanea, Veronica Manescu (Paltanea), Horia Gavrilă, Iosif Vasile Nemoianu, Paul Cristian Andrei, Radu Mircea Ciuceanu – *Application of orientation distribution functions' theory in the case of grain-oriented steels cut through classical and non-conventional technologies*, International Journal of Applied Electromagnetics and Mechanics, Volume 61, pp. S131-S139 Supplement: 1, 2019, ISSN 1383-5416 (Print), eISSN: 1875-8800 (Online) (DOI: 10.3233/JAE-198976) (WOS:000477737700017).

Ris9 Veronica Manescu (Paltanea), Gheorghe Paltanea, Iosif Vasile Nemoianu, Dorina Popovici, Radu Mircea Ciuceanu – *Electrical Characterization of Titanium Dioxide Nanotubes Using Dielectric and Electrochemical Impedance Spectroscopy*, Revista de Chimie, vol. 69, issue 12, pp. 3495-3499, 2018, ISSN: 0034-7752 (WOS:000458533800033).

Ris10 R.M. Ciuceanu, I. V. Nemoianu, Veronica Mănescu (Păltănea), G. Păltănea – *On Professor Țugulea's visionary power theory: a review, recent advances and perspectives*, Revue Roumaine des Sciences Techniques, Série Electrotechnique et Energétique, Ed. Academiei Române, tome 63, no. 2, pp. 123-127, Bucarest, 2018, ISSN 0035-4066 (WOS:000438662400002).

Ris11 I. V. Nemoianu, Veronica Mănescu (Păltănea), G. Păltănea, R.M. Ciuceanu – *Assessment of Tilt Angle Measurement Based on a Diamagnetically Stabilized All Permanent Magnet Levitation Structure*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 63, no. 1, pp. 5-10, Bucarest, 2018, ISSN 0035-4066 (WOS:000430897800001).

Ris12 I. V. Nemoianu, R. M. Ciuceanu – *Aspects of active and reactive powers conservation in three-phase circuits with zero impedance neutral and two nonlinear unbalanced loads*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 61, no. 4, pp. 349-354, Bucarest, 2016, ISSN 0035-4066 (WOS:000392357000007).

Ris13 I. V. Nemoianu, R. M. Ciuceanu – *Characterization of non-linear three-phase unbalanced circuits powers flow supplied with symmetrical voltages*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 60, no. 4, pp. 355-365, Bucarest, 2015, ISSN 0035-4066 (WOS:000365935800002).

Ris14 I. V. Nemoianu, R. M. Ciuceanu – *Non-symmetry and residual active and reactive powers flow in non-linear three-phase unbalanced circuits*, Revue Roumaine des Sciences Techniques – Série Electrotechnique et Energétique, Ed. Academiei Române, tome 60, no. 3, pp. 227-237, Bucarest, 2015, ISSN 0035-4066 (WOS:000359683100002).

Ris15 F.I.Hantila, M.Maricar, R.M.Ciuceanu, L.Corlan – *Harmonic Analysis of Circuits with Nonlinear Resistive Elements*, Revue Roumaine des Sciences Technique, serie Electrotechnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 57, Nr.4, pp.333-340, Bucarest 2012;

Ris16 A.Ioanid, R.M.Ciuceanu – *Static dielectric electrolyte permittivity in electric double layer* Digest Journal of Nanomaterials and Biostructures, ISSN 1842-3582, Vol.6, No.3, pp1427-1434, July-September 2011;

Ris17 Ana Ioanid, Radu Mircea Ciuceanu - *Toward the physical basis of complex systems: Dielectric analysis of porous silicon nanochannels in the electrical double layer length range* - BRAIN. Broad Research in Artificial Intelligence and Neurosciences, ISSN 2067-3957, Vol.1, pp.159-169, October 2010;

Ris18 A.Panaiteescu, R.M.Ciuceanu, *Electric Flux in Unipolar Induction Devices*, Revue Roumaine des Sciences Technique, serie Electrotechnique et Energetique, Editura Academiei Romane, ISSN 0035-4066, tome 54, Nr.2, pp.127-138, Bucarest 2009;

Vis19 Iosif Vasile Nemoianu; Radu-Mircea Ciuceanu; Veronica Manescu Paltanea; Gheorghe Paltanea; Maria-Iuliana Dascalu; Maria-Lavinia Bobaru – *Quantifying Power Effects of Unbalanced and Nonlinear Consumers in Three-phase Networks: A Theoretical Review and Experimental Verification*, 2024 International Symposium on Electrical, Electronics and Information Engineering (ISEEIE) Leicester, United Kingdom, 24-28 August, 2024, DOI: 10.1109/ISEEIE62461.2024.00093 Electronic ISBN:979-8-3503-5577-2 Print on Demand(PoD) ISBN:979-8-3503-5578-9;

Vis20 Iosif Vasile Nemoianu; Veronica Manescu Paltanea; Gheorghe Paltanea; Maria-Iuliana Dascalu; Radu Mircea Ciuceanu – *Detailed Investigation of the Residual and Non-Symmetry Active and Reactive Power Flow for No-Neutral Three-Phase Nonlinear Circuits* The 13th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Bucharest, March 23-25, 2023, DOI: 10.1109/ATEE58038.2023.10108343, Electronic ISBN:979-8-3503-3193-6 USB ISBN:979-8-3503-3192-9 Print on Demand(PoD) ISBN:979-8-3503-3194-3, Electronic ISSN: 2159-3604 Print on Demand(PoD) ISSN: 2068-7966;

Vis21 Iosif-Vasile Nemoianu, Veronica Manescu, Gheorghe Paltanea, Radu-Mircea Ciuceanu – *Insight Into The Non-Symmetry and Residual Active and Reactive Power Flow In The Case of Three-Phase Distorting Networks Without Neutral*, The 12th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Bucharest, March 25-27, 2021, DOI: 10.1109/ATEE52255.2021.9425173 (WOS:000676164800070, indexare IEEE Xplore, USB ISBN: 978-1-6654-1877-5, E-ISBN: 978-1-6654-1878-2, Pod ISBN:978-1-6654-4807-9, Electronic ISSN: 2159-3604, Print on Demand(PoD) ISSN: 2068-7966).

Vis22 - Iosif Vasile Nemoianu, Veronica Manescu (Paltanea), Gheorghe Paltanea, Maria-Iuliana Dascalu, Radu Mircea Ciuceanu – *Electric motors of large consumer products, challenges and trends from the perspective of power efficiency improvement through modern cutting technologies*, 2019 Zooming Innovation in Consumer Electronics International Conference (ZINC), Novi Sad, Serbia, May 29-30, 2019, pp. 76- 81, doi: 10.1109/ZINC.2019.8769437 (WOS:000493114500016; indexare IEEE Xplore, E-ISBN: 978-1-7281-2901-3, Print on Demand(PoD) ISBN: 978-1-7281-2902-0).

Vis23 Iosif Vasile Nemoianu, Maria Iuliana Dascălu, Veronica Mănescu (Păltănea), Gheorghe Păltănea, Radu Mircea Ciuceanu – *In-deep first assessment of the influence of nonlinear elements in three-phase networks with neutral*, The XI th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Bucharest, March 28-30, 2019, pp. 1- 6, doi: 10.1109/ATEE.2019.8725000 (WOS: 000475904500155, Indexare IEEE Xplore, USB ISBN: 978-1-7281-0100-2, E-ISBN: 978-1-7281-0101-9, Pod ISBN:978-1-7281-0102-6, Electronic ISSN: 2159-3604, Print on Demand(PoD) ISSN: 2068-7966).

Vis24 Veronica Manescu (Paltanea), Gheorghe Paltanea, Iosif Vasile Nemoianu, Radu Mircea Ciuceanu – *Scalar Preisach Hysteresis Model Algorithm*, Proceedings of the 6th Conference on the Engineering of Computer Based Systems ECBS '19, Bucharest September 2-3, 2019, ISBN: 978-1-4503-7636-5, DOI: 10.1145/3352700.3352708, Premiul "Best Short Paper" (WOS: 000525376600008; Indexări BDI: ACM).

Vis25 I. V. Nemoianu, M. Maricaru, R.M. Ciuceanu – Active and reactive power flow in distorting three-phase unbalanced circuits without neutral, International Symposium on Fundamentals of Electrical Engineering (ISFEE), 2016, pp. 1 – 5, USB ISBN 978-1-4673-9574-8, E-ISBN 978-1-4673-9575-5, PoD ISBN: 978-1-4673-9576-2, DOI:10.1109/ISFEE.2016.7803181 (WOS:000392434400033; Indexări BDI: IEEE Xplore).

Vis26 F.I.Hantila, M.Maricaru, F.Constantinescu, R.Ciuceanu – *A new method for time domain computation of the steady state in nonlinear circuits*, IEEE International Conference on Microwaves, Communications, Antennas and Electronics Systems (COMCAS), pp.1-6, DOI: 10.1109/COMCAS.2011.6105918, 7-9 Nov.2011;

Vis27 Ana Ioanid, Radu Mircea Ciuceanu, – *Toward The Physical Basis Of Complex Systems: Dielectric Analysis Of Porous Silicon Nanochannels In The Electrical Double Layer Length Range*, Special Issue on Understanding Complex Systems, Eds. Barna Iantovics, Ladislav Hluchy and Roumen Kountchev, Acta Universitatis Apulensis, ISSN 1582-5329, 2011.

Vis28 Ana Ioanid, Radu Mircea Ciuceanu, – *Simulation of the Growth Process of a Silicium Nanotubes Structure as Biomaterial in the Porosity of Zeolite AFI*, Proceedings of the First International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing, IEEE Computer Society, ISBN 978-0-7695-3621-7, pp.225-230, Los Alamitos, CA, 2009;

Vn29 A.Ioanid, R.M.Ciuceanu, – *Dielectric analysis of porous silicon nanochannels in the electrical double layer length range. mathematical features of physical mechanisms complexity*, International Symposium on Understanding Intelligent and Complex Systems, UICS2009, Romanian Academy, Bucharest and Petru Maior University, Targu-Mures, Romania, 22-23 noiembrie, 2009, SectionVI, UICS Nr.36.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

Pn1 Grant de cercetare tip ARUT nr. 28/09.10.2023 " Platformă experimentală pentru determinarea puterilor de nesimetrie și reziduale în rețele trifazate TRICODD (ID: 220235135)", coordonator UPB conf. dr. ing. Iosif Vasile Nemoianu, perioadă: 09.10.2023 – 31.12.2025, Portofoliu DCIFE-SMACS;

Pn2 Grant de cercetare tip PTE nr. 30/2016 "Termosutien pentru detecția și localizarea cancerului de sân TERMOSCAN", coordonator UPB prof dr. ing. Florea Ioan Hăntilă (PN-III-P2-2.1-PTE-2016-0029);

- Pn3** “Metode noi de analiza a circuitelor in domeniul timpului si in domeniul frecventei ”, CNCSIS IDEI_2197 (ctr. nr.656/2009), 2009-2011, coordonator UPB prof dr. ing. Florea Ioan Hăntîlă
- Pn4** “Tehnici de inalta performanta in proiectarea asistata de calculator a circuitelor analogice” CNCSIS 2002 contract tip A cod 354/468/468, 2002-2004, coordonator UPB prof dr. ing. Mihai Iordache;
- Pn5** “Fenomene electromagnetice in instalatiile de electroliza a aluminiului” CNCSIS 2002, contract tip AA cod 227, 2002, coordonator UPB prof dr. ing. Aurel Panaitescu;
- Pn6** “Aplicarea metodelor integrale pentru campul magnetic stationar in studiul ecranelor feromagnetice” CNCSIS 2001, contract tip A cod 119, 2001, coordonator UPB prof dr. ing. Aurel Panaitescu;
- Pn7** “Analiza calitativa a circuitelor electrice si electronice” CNCSIS 2000 contract tip A cod 1155/107/144, 2000-2002, coordonator UPB prof dr. ing. Mihai Iordache.

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Semnatura
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