

A – teza de doctorat

„Implicații tehnice și economice ale noncalității energiei electrice la consumatori”
conducător științific: Prof.dr.ing. Virgil Maier Universitatea Tehnică din Cluj-Napoca

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

CĂRȚI

1. **Horia G. Beleiu** – Implicații tehnice și economice ale noncalității energiei electrice la consumatori. Editura UTPRESS Cluj-Napoca, 2020, ISBN 978-606-737-446-9.
2. Virgil Maier, Sorin G. Pavel, **Horia G. Beleiu** – Calitatea Energiei Electrice. Editura: UPPRESS Cluj-Napoca, 2012, ISBN 978-973-662-784-2.
3. Sorin G. Pavel, Virgil Maier, **Horia G. Beleiu** – Aplicații privind Calitatea Energiei Electrice. Editura: UTPRESS Cluj-Napoca, 2012, ISBN 978-973-662-785-9.
4. Virgil Maier, Sorin G. Pavel, **Horia G. Beleiu** – Ghid pentru proiectarea instalațiilor electrice la consumatori. Editura: UTPRESS Cluj-Napoca, 2013, ISBN978-973-662-819-1.

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. Darab, C.; Antoniu, T.; **Beleiu, H.G.**; Pavel, S.; Birou, I.; Micu, D.D.; Ungureanu, S.; Cirstea, S.D. Hybrid Load Forecasting Using Gaussian Process Regression and Novel Residual Prediction. *Appl. Sci.* 2020, *10*, 4588.
2. **H.G. Beleiu**, V. Maier, S.G. Pavel, I. Birou, C.S. Pică, P.C. Dărab, Harmonics Consequences on Drive Systems with Induction Motor. *Applied Sciences* 2020, Vol. 10, Issue 4, pp. 1528, eISSN: 2076-3417, doi.org/10.3390/app10041528, WOS:000525287900335.
3. S.G. Pavel, V. Maier, C. Ciorca, **H.G. Beleiu**, I. Birou, Optimal Design of the Vertical Earthing with Electrodes Arranged in Line *Applied Sciences* 2020, Vol. 10, Issue 3, pp. 1177, eISSN: 2076-3417, doi.org/10.3390/app10031177, WOS:000525305900446.
4. **H.G. Beleiu**, I.N. Beleiu, S.G. Pavel and C.D. Dărab. Management of Power Quality Issues from an Economic Point of View, in *SUSTAINABILITY*, Volume: 10, Issue: 7, 2018, pp. 2326, eISSN: 2071-1050, doi.org/10.3390/su10072326, WOS:000440947600217.
5. **H.G. Beleiu**, P.C. Darab, C. Pica, S.G. Pavel, T. Coldea, Impact of Different Materials Electrodes in Earth Grounding Systems, in *Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering*, Volume: 61, Issue: 1, 2018, pp: 65-68, ISSN: 1221-5872, WOS:000428903500011.

6. P.C. Darab, A. Turcu, C. Pica, S.G. Pavel, **H.G. Beleiu**, Reducing Earth Grounding Electrical Resistance by Using Metallurgy Industrial Waste as Backfill Materials, in Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 61, Issue: 1, 2018, pp: 69-72, ISSN: 1221-5872, WOS:000428903500012.

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul Inginerie Energetică (DBLP, ACM, IEEE, SCOPUS)

* indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

7. **H.G. Beleiu**, V. Maier, S. G. Pavel, I. Birou and C. Pică, Synchronous Motor Behavior in Harmonics, 2019 54th International Universities Power Engineering Conference (UPEC), Bucharest, Romania, 2019, pp. 1-6. doi: 10.1109/UPEC.2019.8893511 [IEEE].
8. V. Maier, S.G. Pavel, **H.G. Beleiu** and V. Farcas, Aspects on Harmonics Analytical Identification of a Periodic Non-Sinusoidal Wave, 2019 8th International Conference on Modern Power Systems (MPS), Cluj Napoca, Romania, 2019, pp. 1-6, doi: 10.1109/MPS.2019.8759685 [IEEE].
9. V. MAIER, S.G. PAVEL, C. CIORCA, **H.G. BELEIU** and I. BIROU, Dissipation Surface Minimization of Vertical Earth Grounding, with Rectangular Contour, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2019, pp. 1-6. doi: 10.1109/ATEE.2019.8724882, WOS:000475904500039 [IEEE – ISI proceedings].
10. V. Maier, C. Ciorca, S.G. Pavel, **H.G. Beleiu** and I. Birou, Design of vertical earth grounding with rectangular outline by minimizing its total metal mass, 2018 International Conference on Development and Application Systems (DAS), Suceava, 2018, pp. 57-62, doi: 10.1109/DAAS.2018.8396071, WOS:000467080400011 [IEEE – ISI proceedings].
11. C. Ciorca, V. Maier, S.G. Pavel and **H.G. Beleiu**, Dimensioning of the Vertical Earth Grounding with Rectangular Contour through Minimizing the Investments Costs, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, 2018, pp. 0154-0158, doi: 10.1109/ICEPE.2018.8559651, WOS:000458752200029 [IEEE – ISI proceedings].
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13. Virgil Maier, Sorin G. Pavel, **Horia G. Beleiu**, Constantin S. Pica, *Vertical Earth Grounding Design Using Optimal Criteria*, The 10th International Symposium on Advanced Topics in Electrical Engineering, Page(s):539 – 544, ATEE 2017, 23 – 25 martie, Universitatea Politehnica din București, Romania, DOI: 10.1109/ATEE.2017.7905162, Electronic ISBN: 978-1-5090-5160-1, USB ISBN: 978-1-5090-5159-5, PoD ISBN: 978-1-5090-5161-8 [IEEE – ISI proceedings].
14. Virgil Maier, Sorin G. Pavel, **Horia G. Beleiu** and Constantin S. Pică, *Optimal Design of Vertical Earth Grounding, with Rectangular Perimeter*. International Conference on Modern Power Systems, MPS 2017, pages: 1-5, 6 – 9 iunie, Universitatea Tehnică din

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15. Constantin Sorin Pică, Virgil Maier, Sorin Gh. Pavel, **Horia Gh. Beleiu**. Synthesis and Analysis of PWM Inverter Output Voltages. In: Proceedings of the International Conference on Electromechanical and Power Systems (SIELMEN), Chişinău, 11 – 13 octombrie, 2017 [IEEE].
 16. Virgil Maier, Sorin Gh. Pavel, Iulian Birou, **Horia Gh. Beleiu** and Claudiu Ciorca, Methodologies Regarding the Application of Optimum Criteria to the Vertical Earth Grounding Design, with Rectangular Outline. In: Proceedings of the International Conference on Electromechanical and Power Systems (SIELMEN), Chişinău, 11 – 13 octombrie, 2017, [IEEE].
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 18. Virgil Maier, Sorin G. Pavel, **Horia G. Beleiu**, Vasile Fărcaș. *Additional Indicators for Short Time Overvoltages and Voltage Impulses*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE 2016), 20-22 October, Iasi, Romania, ISBN:978-1-5090-6128-0 / ISSN: 2471-6855, WOS:000390706300162 [ISI Proceeding].
 19. Virgil Maier, Sorin G. Pavel, **Horia G. Beleiu**, Iulian Birou, Vasile Fărcaș. *Nomograms for Sizing the Vertical Earth Grounding*, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE 2016), 20-22 October, Iasi, Romania, ISBN:978-1-5090-6128-0 / ISSN: 2471-6855, WOS:000390706300097 [ISI Proceeding].
 20. Virgil Maier, Sorin Gh. Pavel, **Horia Gh. Beleiu**, Constantin Buda, *Survey regarding additional indicators for voltage sags*, 13th International Conference on Development and Application Systems, May 19-21, 2016 - Suceava, Romania, ISBN:978-1-5090-1993-9, WOS:000383222200017, [ISI Proceeding].
 21. Sorin Gh. Pavel, **Horia Gh. Beleiu**, Iulian Birou, Constantin Pică, Constantin Buda, *DMS steady state function validation by comparative study*, 13th International Conference on Development and Application Systems, May 19-21, 2016 - Suceava, Romania, ISBN:978-1-5090-1993-9, WOS:000383222200018, [ISI Proceeding].
 22. Ionut Brandusoiu, Gavril Todorean, **Horia Beleiu**, *Methods for Churn Prediction in the Pre-Paid Mobile Telecommunications Industry / 2016 INTERNATIONAL CONFERENCE ON COMMUNICATIONS (COMM 2016) / ISBN:978-1-4673-8197-0, pp. 97-100*
 23. Virgil Maier, Sorin G. Pavel, **Horia G. Beleiu**, Vasile Fărcaș and Claudiu Ciorca, *Actual Aspects of Flicker Phenomenon*, Proceedings of the 9th International Symposium on Advanced Topics in Electrical Engineering, May 7-9, 2015, ISBN:978-1-4799-7514-3, WOS:000368159800139, [ISI Proceeding].
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 28. Pavel, S. G., Maier, V., **Beleiu H. G**, Nedelcu Speranța and Fărcaș V., Theory and Practice in Voltage Slow Variations, In: Acta Electrotehnica, Volume 54, Number 5, 2013, Editura Mediamira, Cluj-Napoca, ISSN 1841-3323, pp. 357-364, 28 - 31 May MPS 2013 [BDI].
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D – Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. V. Maier, S. G. Pavel, V. Fărcaș, **H. G. Beleiu**. Contributions to the Unbalanced Regime Analysis (Contribuții la analiza regimului nesimetric). Revista Energetica nr. 6 / 2014, ISSN: 1453-2360, volumul 62, București.
2. V. Maier, S. G. Pavel, **H. G. Beleiu** and D. Leșe *Analysis Methodology of Voltage Slow Variations*. Energetica nr. 7, Volumul 61, ISSN 1453-2360, 2013, București.

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3. Maier, V, Pavel, S. G., Birou, I., **Beleiu H. G.** *Technical and Economic Analysis of Soft Starter Providing in LV Electrical Installations*, In: Proceedings of the 17th national conference on electrical drives CNAE 2014, pp 137 - 147, Analele Universității "Eftimie Murgu" ISSN: 1453-7397, Reșița 9 - 10 octombrie 2014.
4. Pavel, S.G., Maier, V., Birou, I. and **Beleiu, H.G.** *Harmonics Analysis Using DFT*, SIELMEN 2013, ISBN 978-606-13-1560-4, October 15-18, Chișinău, Republic of Moldova.
5. **H.G.Beleiu**, V. Maier, S. Gh. Pavel, H. A. Moldovan. Predeterminarea echipamentului de iluminat exterior al căilor de circulație folosind baze de date. *Simpozionul Național de Iluminat 2009*, Sinaia pag.6-17, ISSN: 978-973-755-557-1.
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Semnătura
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