

LISTA PUBLICAȚIILOR

A. Teza de doctorat:

Contribuții privind analiza sistemelor electrotermice inductive echipate cu invertoare de înaltă frecvență

B. Cărți și Capitle în cărți:

1. **Burca A.**, *Analiza sistemelor electrotermice inductive echipate cu invertoare de înaltă frecvență*. ISBN 978-606-10-1830-7, Editura Universității din Oradea, 181 pag, 2016.
2. **Burca A.**, Gordan C., *Dispozitive electronice*, Curs. format electronic cu ISBN 978-606-10-1751-5, Editura Universității din Oradea, 60 pag, 2015.
3. Castrase S., **Burca A.**, Gordan C., *Dispozitive și circuite electronice*, Îndrumător de laborator, format electronic cu ISBN 978-606-10-1610-5, Editura Universității din Oradea, 50pag. 2015.
4. Gordan C., Morgos L., Reiz R., **Burca A.**, Îndrumator de laborator, *Teoria Transmiterii Informației*. Oradea 2011, 60 pag.
5. Morgos L., **Burca A.**, Reiz R., Îndrumator de laborator. *Transmisii Telefonice*. Oradea 2011, 73-pag.
6. Gordan C., Morgos L., **Burca A.**, Reiz R., Îndrumator de laborator, *Circuite de Telecomunicații*. Oradea, 2011, 63 pag.
7. Gordan C., Morgos L., Reiz R., **Burca A.**, *Circuite de Telecomunicații*, curs, format electronic, 144 pag.

C. Lucrări indexate ISI/BDI

1. Leuca T, Trip ND, Silaghi H, **Burca A.**, „*Design of experiments approach for induction heating optimization*”, *Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique*, Tome 61, 2016, No 2, April-Juin, pag 169-172.
2. Leuca T; **Burca A**; Maricaru M; Trip ND; Hantila JF, "Inverter-Inductor Circuit For Eddy Current Treatment Of Ferromagnetic Pieces", *Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique*, 01/2015, Volume 60, Issue 1, page 7-16.
3. Leuca, T.; **Burca, A.**; Maricaru, M.; Trip, N.D.; Nemoianu, I.V., "Thermal treatment of ferromagnetic pieces at medium frequency", *Engineering of Modern Electric Systems (EMES)*. 2015 13th International Conference on Year: 2015, Pages: 1 - 6. DOI: 10.1109/EMES.2015.7158449, IEEE Conference Publications.
4. Trip N.D.; **Burca A.**; Gordan C.; Schiop A., "Nitrogen influence on the reflow soldering process optimization", *Design and Technology in Electronic Packaging (SIITME)*, 2015 IEEE 21st International Symposium for, Year: 2015, Pages: 99 – 102.
5. Leuca T., Popa M., Novac M., Codreanu M., **Burcă A.**, Telea D., "Coupling the Numerical Modeling of the Inductive Heating Process Using a Matlab-PDE Software Development and the Minitab-Full Factorial Software in order to Optimize the Parameters of an Inductive Electrothermal Equipment", *Journal of Electrical and Electronics Engineering*, 05/2015, Volume 8, Issue 1, page 23-26
6. Cheregi **Burca A.**, Lucaci M. C., Derecichei L. M., Gal T. O., „*About Using Induction Hardening Method To A Metal Piece*”, *Analele Universității din Oradea, Fascicula Protecția Mediului*, ISSN 1224-6255, Vol. XXV, 2015, pag319.

7. Trip N.D., **Burca A.**, Leuca T., Dudrik J., "*Considerations on the Analysis of an Induction Heating System*", International Symposium on Electronics and Telecommunications ETC 2014 Eleventh Edition, Timișoara, November 14-15, 2014, manifestare IEEE.
8. **Burca A.**, Trip N. D., Leuca T., "*Considerations on the Design of a Low Power Induction Heating System*", International Symposium of Fundamentals of Electrical Engineering 2014, Publication year: 2014, Bucharest, Romania, IEEE Conference Publication.
9. Leuca T., Novac M., Stanciu B., **Burca A.**, Codrean M., "*Using Minitab-Box Benken Software to Optimize the Induction Heating Process*", Journal of Electrical and Electronics Engineering Oradea 2014, pag 73.
10. Leuca T., Novac M., Stanciu B., **Burca A.**, Codrean M., "*Using Some Coupled Numerical Models in Problems of Designing an Inductive Electrothermal Equipment*", Journal of Electrical and Electronics Engineering Oradea 2014, pag 77.
11. **Burca A.**, Leuca T., Cheregi G., "*Study on Using Concentrators in the Induction-Hardening Process of a Cylindrical Part*", Journal of Electrical and Electronics Engineering Oradea 2013, pag 5.
12. Cheregi G., **Burca A.**, Codău A. T., "*About Induction Hardening Method of Gear Used in a Conveyor*", Analele Universității din Oradea, Fascicula Protecția Mediului, ISSN 1224-6255, Vol. XXI, 2013, pag 359.
13. **Burca A.**, Stanciu B., MICH-VANCEA C., "*Aided Design Elements of Induction Heating Process for Hardening*", Journal of Electrical and Electronics Engineering Oradea 2012, pag 27, ISSN 1844 – 6035.
14. **Burca A.**, Cheregi G., "*Numerical Modeling of Induction Hardening System of Gears*", Journal of Electrical and Electronics Engineering Oradea 2012, pag.23, ISSN 1844 – 6035.

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