

LISTA DE LUCRĂRI

- de la susținerea tezei de doctorat -

A. Lista celor maximum 10 lucrări considerate a fi cele mai relevante pentru realizările profesionale proprii

1. Eva-Henrietta Dulf, Cristina I. Muresan, Mihaela L. Unguresan, Modeling the (¹⁵N) isotope separation column, DOI 10.1007/s10910-013-0248-2, *JOURNAL OF MATHEMATICAL CHEMISTRY*, Springer, ISSN: 0259-9791, 2014, 52:115–131 (impact factor **1.226**), http://download.springer.com/static/pdf/759/art%253A10.1007%252Fs10910-013-0248-2.pdf?auth66=1405593754_90215bdafb630a22ab367bffc4343c92&ext=.pdf
2. Eva-Henrietta Dulf, Cristina-Ioana Pop, Francisc-Vasile Dulf, Systematic Modeling of the (¹³C) Isotope Cryogenic Distillation Process, *Separation Science and Technology*, Taylor & Francis, Volume 47, Issue 8, 2012, pg. 1234-1240, ISSN: 0149-6395 DOI: 10.1080/01496395.2011.644614, (impact factor **1.164**) <http://www.tandfonline.com/doi/abs/10.1080/01496395.2011.644614>
3. Eva-Henrietta Dulf, Cristina-Ioana Pop, Francisc-Vasile Dulf, Fractional calculus in ¹³C separation column control, *Signal, Image and Video Processing*, ISSN 1863-1703, SIViP, DOI 10.1007/s11760-012-0335-z, 2012, Springer, 6:3, 479-485 (impact factor **0.409**) <http://www.springerlink.com/content/k275jx03162014v6/>
4. Eva-Henrietta Dulf, Cl. Festila, F. V. Dulf, Robust Nonlinear Control of a Separation Column for ¹³C Enrichment by Cryogenic Distillation of Carbon Monoxide, *Chemicke Listy*, Vol. 102, Issue 15, pp. 1075-1078, Czech Republic, September 2008, ISSN 0009-2770 (impact factor **0.593**), http://chemicke-listy.cz/docs/full/2008_s3_s1072-s1201.pdf
5. Roxana Both, Eva-Henrietta Dulf*, Clement Festila, Robust control of a catalytic 2 ethyl-hexenal hydrogenation reactor, *Chemical Engineering Science* 74 (2012) 300–309, ISSN: 0009-2509, doi:10.1016/j.ces.2012.02.033, Elsevier, 2012, (impact factor **2.386**), <http://www.sciencedirect.com/science/article/pii/S0009250912001297>
6. Tibor Szelitzky, Eva-Henrietta Dulf*, Adaptive control in series load PWM induction heating inverters, *International Journal of Electronics*, Taylor & Francis, ISSN: 0020-7217, DOI:10.1080/00207217.2013.769177, 2013, 100:12, 1714-1723 (impact factor **0.509**), <http://www.tandfonline.com/doi/abs/10.1080/00207217.2013.769177>
7. Cristina I. Muresan, Silviu Folea, George Mois, Eva-Henrietta Dulf*, Development and Implementation of an FPGA Based Fractional Order Controller for a DC Motor, *Mechatronics*, Elsevier, ISSN: 0957-4158, 2013, 23:7, 798-804 <http://dx.doi.org/10.1016/j.mechatronics.2013.04.001>, (impact factor **1.300**)
8. Cristina I. Muresan, Eva-Henrietta Dulf*, Ovidiu Prodan, A Fractional Order Controller for Seismic Mitigation of Structures Equipped with Viscoelastic Mass Dampers, *Journal of Vibration and Control*, 2014, ISSN: 1077-5463, (impact factor **4.355**)
9. Tibor Szelitzky and **Eva Henrietta Dulf*** (2013). *H ∞ Control of an Induction Heating Inverter*, In: *Advances in Intelligent Control Systems and Computer Science*, Editor: Ioan

Dumitrache, DOI: 10.1007/978-3-642-32548-9_17, Print ISBN 978-3-642-32547-2, Online ISBN 978-3-642-32548-9, Series Vol.187, Series ISSN 2194-5357, Springer, pp. 235-250

10. Inventor(s): MUNTEANU R A; DULF E H; FESTILA C; et al., Title: Analogue electronic transducer for measuring power in direct current circuits, Patent Number: RO128666-A2, Patent Assignee: TEȘCHNICAL UNIV CLUJ-NAPOCA TEHNICA, http://apps.webofknowledge.com/full_record.do?colName=DIIDW&recordID=2013M23583&page=1&qid=2&log_event=yes&viewType=fullRecord&SID=N1GQji4uwggvqTlclgy&product=UA&doc=10&search_mode=GeneralSearch

B. Brevete de invenție

1. Propunere brevet național: Procedeu și dispozitiv de determinare a nivelului de monoxid de carbon lichid în fierbătorul unei instalații de separare criogenică a izotopului ^{13}C , Nr înreg. OSIM A/00832/2007
2. Propunere brevet național-faza A2: Traductor criogenic capacitiv de nivel cu placi coplanare pentru azot lichid, Nr înreg. OSIM A/10017/2011; LEVEL CAPACITIVE CRYOGENIC TRANSDUCER WITH COPLANAR PLATES FOR LIQUID NITROGEN, RO 128052, IPC: G01F23/22
Applicants: UNIV TEHNICA DIN CLUJ NAPOCA, Authors: DUFF EVA HENRIETTA, FESTILA CLEMENT, MUNTEANU RADU ADRIAN, Last status change:2012-12-28/
Fill date:2011-04-07
3. Propunere brevet național-faza A2: Metoda intuitiva si aparat electronic pentru determinarea defazajului la analizoare frecventiale, Nr înreg. OSIM A/10018/2011; INTUITIVE METHOD AND ELECTRONIC APPARATUS FOR DETERMINING PHASE SHIFTING IN FREQUENCY ANALYZERS; RO 128067, IPC: H03L7/00 G01R23/12
Applicants: UNIV TEHNICA DIN CLUJ NAPOCA, Authors: DUFF EVA HENRIETTA, FESTILA CLEMENT, MUNTEANU RADU ADRIAN, Last status change:2012-12-28/
Fill date:2011-04-07
4. Propunere brevet nr. RO128666-A2, Analogue electronic transducer for measuring power in direct current circuits, has circuit for generating filling factor which is astable flip-flop circuit based on amplifier, Inventor(s): MUNTEANU R A, DULF E H, FESTILA C, MUNTEANU R, TODORAN G Patent Assignee Name(s) and Code(s): UNIV CLUJ-NAPOCA TEHNICA (UYCL-Non-standard) Derwent Primary Accession Number: 2013-M23583 [57]
5. Propunere brevet A00894/20.11.2014: Eva-Henrietta Dulf, Radu A. Munteanu, Clement Festila, Radu Munteanu, Direct, simplified, relay based algorithm for frequency analysis

C. Cărți și capitole de cărți publicate

1. **Dulf Eva-Henrietta**, „Control robust. Variante și aplicații”; Editura MEDIAMIRA, 2007, 163 pag., ISBN 978-973-713-151-5
2. Cristina Ioana Pop and **Eva Henrietta Dulf*** (2011). *Robust Feedback Linearization Control for Reference Tracking and Disturbance Rejection in Nonlinear Systems*, Recent Advances in Robust Control - Novel Approaches and Design Methods, Andreas Mueller (Ed.), ISBN: 978-953-307-339-2, InTech, DOI: 10.5772/17540, Available from: <http://www.intechopen.com/articles/show/title/robust-feedback-linearization-control-for-reference-tracking-and-disturbance-rejection-in-nonlinear->

3. Cristina I. Pop, **Eva H. Dulf**, Clement Festila (2012). *Ingineria Reglării Automate 1*, Îndrumător de laborator, UTPRESS, ISBN 978-973-662-720-0
4. Tibor Szelitzky and **Eva Henrietta Dulf*** (2013). *H ∞ Control of an Induction Heating Inverter*, In: *Advances in Intelligent Control Systems and Computer Science*, Editor: Ioan Dumitrache, DOI: 10.1007/978-3-642-32548-9_17, Print ISBN 978-3-642-32547-2, Online ISBN 978-3-642-32548-9, Series Vol.187, Series ISSN 2194-5357, Springer, pp. 235-250, http://link.springer.com/chapter/10.1007/978-3-642-32548-9_17

D. Articole/studii în extenso, publicate în reviste din fluxul științific internațional principal

1. Roxana Both, **Eva H. Dulf***, A. Cormos (2015), Control of a Catalytic 2 Ethyl-hexenal Three Phase Industrial Hydrogenation Reactor, accepted for *Brazilian Journal of Chemical Engineering* (impact factor **0.912**)
2. Cristina I. Muresan, **Eva H. Dulf***, Cosmin Copot, Robin De Keyser, Clara Ionescu (2015), Design and analysis of a multivariable fractional order controller for a non-minimum phase system, accepted for *Journal of Vibration and Control*, DOI: 10.1177/1077546315575433 (impact factor **4.355**), <http://jvc.sagepub.com/content/early/2015/03/17/1077546315575433.abstract>
3. Cristina I. Muresan, **Eva H. Dulf***, Roxana Both (2015), Comparative analysis of different control strategies for a train of cryogenic ¹³C separation columns, *Chemical Engineering & Technology*, DOI: 10.1002/ceat.201400550 (impact factor **2.175**), <http://onlinelibrary.wiley.com/doi/10.1002/ceat.201400550/abstract>
4. **Eva-Henrietta Dulf**, F.V. Dulf, C.I. Pop (2014), Fractional Model of the Cryogenic (¹³C) Isotope Separation Column, accepted for *Chemical Engineering Communication*, ISSN 0098-6445, DOI: 10.1080/00986445.2014.968709 (impact factor **0.788**), <http://www.tandfonline.com/doi/abs/10.1080/00986445.2014.968709?journalCode=gcec20>
5. Muresan, C.I., **Dulf, E.H.**, Both, R. (2014), A Novel Tuning Algorithm for Fractional Order IMC Controllers for Time Delay Processes, *Applied Mechanics and Materials Journal*, paper selected at the International Conference on Mechanical Manufacturing and Control, 21-23 November, Singapore (impact factor **1.395**)
6. Cristina I. Muresan, **Eva H. Dulf***, Ovidiu Prodan (2014), A Fractional Order Controller for Seismic Mitigation of Structures Equipped with Viscoelastic Mass Dampers, DOI: 10.1177/1077546314557553, *Journal of Vibration and Control*, ISSN: 1077-5463, (impact factor **4.355**), <http://jvc.sagepub.com/content/early/2014/10/30/1077546314557553.abstract>
7. **Eva-Henrietta Dulf**, Cristina I. Muresan, Mihaela L. Unguresan, Modeling the (¹⁵N) isotope separation column (2014), DOI 10.1007/s10910-013-0248-2, *JOURNAL OF MATHEMATICAL CHEMISTRY*, Springer, ISSN: 0259-9791, 2014, 52:115–131 (impact factor **1.27**), <http://link.springer.com/article/10.1007/s10910-013-0248-2>
8. Cristina I. Muresan, Silviu Folea, George Mois, **Eva H. Dulf*** (2014), Development and Implementation of an FPGA Based Fractional Order Controller for a DC Motor, *Mechatronics*, Elsevier, ISSN: 0957-4158, 2013, 23:7, 798-804 <http://dx.doi.org/10.1016/j.mechatronics.2013.04.001>, (impact factor **1.823**)
9. Tibor Szelitzky, **Eva-Henrietta Dulf*** (2013), Adaptive control in series load PWM induction heating inverters, *International Journal of Electronics*, Taylor & Francis, ISSN: 0020-7217, DOI:10.1080/00207217.2013.769177, 2013, 100:12, 1714-1723 (impact factor **0.509**), <http://www.tandfonline.com/doi/abs/10.1080/00207217.2013.769177>

10. **Eva-Henrietta Dulf**, Cristina-Ioana Pop, Francisc-Vasile Dulf (2012), Systematic Modeling of the (¹³C) Isotope Cryogenic Distillation Process, *Separation Science and Technology*, Taylor & Francis, Volume 47, Issue 8, 2012, pg. 1234-1240, ISSN: 0149-6395 DOI: 10.1080/01496395.2011.644614, (impact factor **1.164**) <http://www.tandfonline.com/doi/abs/10.1080/01496395.2011.644614>
11. Roxana Both, **Eva-Henrietta Dulf***, Clement Festila (2012), Robust control of a catalytic 2 ethyl-hexenal hydrogenation reactor, *Chemical Engineering Science* 74 300–309, ISSN: 0009-2509, doi:10.1016/j.ces.2012.02.033, Elsevier, 2012, (impact factor **2.386**), <http://www.sciencedirect.com/science/article/pii/S0009250912001297>
12. Dan Călin Dumitrache, Bart De Schutter, Adrie Huesman, **Eva-Henrietta Dulf** (2012), Modeling, analysis, and simulation of a cryogenic distillation process for 13C isotope separation, *Journal of Process Control*, Elsevier, Volume 22, Issue 4, April 2012, Pages 798–808, ISSN: 0959-1524 (impact factor **1.805**) <http://dx.doi.org/10.1016/j.jprocont.2012.02.010>
13. **Eva-Henrietta Dulf**, Cristina-Ioana Pop, Francisc-Vasile Dulf (2012), Fractional calculus in ¹³C separation column control, *Signal, Image and Video Processing*, ISSN 1863-1703, SIViP, DOI 10.1007/s11760-012-0335-z, 2012, Springer, 6:3, 479-485 (impact factor **0.409**) <http://www.springerlink.com/content/k275jx03162014v6/>
14. Cristina I. Pop, Clara Ionescu, Robain De Keyser and **Eva H. Dulf** (2012), Robustness evaluation of fractional order control for varying time delay processes, *Signal, Image and Video Processing*, ISSN 1863-1703, SIViP, DOI 10.1007/s11760-012-0322-4, Springer, 2012, 6:3, 453-461 (impact factor **0.409**) <http://www.springerlink.com/content/m3x1jq812348295j/>
15. C.I. Pop, C. Festila, **E.H. Dulf**, M. Gligan (2012), Tracking and Disturbance Rejection in the ¹³C Cryogenic Separation Column, *Control Engineering & Applied Informatics*, Vol.14, No.1, ISSN 1454-8658, pp.48-58, <http://www.ceai.srait.ro/index.php/ceai/article/view/1265> (impact factor **0.202**)
16. Mihaela-Ligia Unguresan, Andrada Maicaneanu, Francisc-Vasile Dulf, **Eva-Henrietta Dulf**, Delia Maria Gligor (2012), Application of Linear Regression Analysis For Iron And Copper Removal Process Using Natural Zeolites, *Journal of Thermal Analysis and Calorimetry*, Springer, Vol. 110, Issue 3, Page 1293-1297, ISSN: 1388-6150, DOI: 10.1007/s10973-011-2086-4, (impact factor **1.982**) <http://link.springer.com/article/10.1007%2Fs10973-011-2086-4>
17. Cristina-Ioana Pop, Clement Festila, **Dulf Eva-Henrietta** (2010), Optimal Control of the Carbon Isotopes Cryogenic Separation Process, *Chem. Biochem. Eng. Q.* **24** (3) 301–307, ISSN 0352-9568 (impact factor **0.483**) http://www.fkit.hr/cabeq/pdf/24_3_2010/Cabeq_2010_03_05.pdf
18. Cristina-Ioana Pop, **Dulf Eva-Henrietta** (2010), Control Strategies of the ¹³C Cryogenic Separation Column, In: *Journal of Control Engineering and Applied Informatics*, Vol.12, No.2 2010, ISSN 1454-8658, pp.36-43, <http://www.ceai.srait.ro/index.php?journal=ceai>
19. **Dulf Eva-Henrietta**, Cl. Festila, F. V. Dulf (2008), Robust Nonlinear Control of a Separation Column for ¹³C Enrichment by Cryogenic Distillation of Carbon Monoxide, *Chemicke Listy*, Vol. 102, Issue 15, pp. 1075-1078, Czech Republic, ISSN 0009-2770 (impact factor **0.593**), http://chemicke-listy.cz/docs/full/2008_s3_s1072-s1201.pdf
20. Unguresan M.L., M. Abrudean, P. Raica, **Dulf Eva-Henrietta**, T. Colosi (2008), Numerical Modelling and Simulation for Interaction between Cu²⁺ and S₂O₃²⁻, *Chem. Listy, Chemistry of Inorganic Materials*, Vol.102, s265–s1311 (2008), pp.s924-s926, ISSN 0009-2770 (impact factor **0.593**), http://www.chemicke-listy.cz/docs/full/2008_s3_s822-s932.pdf

E. Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

Reviste BDI:

1. **Dulf Eva-Henrietta**, Cl. Festila, F.V. Dulf, “Monitoring and Control System of a Separation Column for ^{13}C Enrichment by Cryogenic Distillation of Carbon Monoxide”, *International Journal of Mathematical Models and Methods in Applied Sciences*, Issue 3, Volume 3, 2009, ISSN: 1998-0140, pp.196-203
2. Cristina I. Muresan, Eva H. Dulf, and Clara Ionescu, ROBUSTNESS EVALUATION OF A MULTIVARIABLE FRACTIONAL ORDER PI CONTROLLER FOR TIME DELAY PROCESSES, *Control and Intelligent Systems*, Vol. 42, No. 2, 2014, DOI: 10.2316/Journal.201.2014.2.201-2507, <http://www.actapress.com/PaperInfo.aspx?paperId=44491>
3. Pop (Muresan), C.-I., Muresan, B., Dulf, E.-H., Ionescu, C. M., De Keyser, R., Festila, Cl., Multivariable Robust Predictive Control for the Secondary Processes in a Cryogenic Carbon Isotope Separation Column, *Buletinul Științific al Universității “Politehnica” din Timișoara, România, Seria Automatica și Calculatoare*, vol. 56(70), no. 4, pp. 137-145, decembrie 2011

Conferințe ISI-Proceedings:

1. **E.H. Dulf**, R.Both, R.Munteanu, Cl.Festila, M.Secara, Variable DC Power Sources for ^{13}C Isotope Separation Column Boiler Supply, *International Conference on System Theory, Control and Computing ICSTCC 2014*, Sinaia, Romania, 17-19 October 2014
2. Cristina I. Muresan, **Eva H. Dulf**, Fractional Order IMC based Controller for Time Delay Systems, *12th International Conference of Numerical Analysis and Applied Mathematics*, Rhodes, Greece, 22-28 September 2014
3. **Dulf, E.H.**, Both, R Muresan, C.I., Active Disturbance Rejection Controller for a Separation Column, *IEEE International Conference on Automation, Quality and Testing, Robotics AQTR*, ISBN: 978-1-4799-3731-8, pp. 1-6, DOI: 10.1109/AQTR.2014.6857906, 22-24 May, Cluj-Napoca, Romania ,2014
4. M. Gretinger, M. Secara, Cl. Festila, **Eva H. Dulf**, “Chirp” signal generators for frequency response experiments, *IEEE International Conference on Automation, Quality and Testing, Robotics AQTR*, ISBN: 978-1-4799-3731-8, pp.205-2018, DOI: 10.1109/AQTR.2014.6857860, 22-24 May, Cluj-Napoca, Romania ,2014
5. Muresan, Cristina I.; **Dulf, Eva H.** ; Both, Roxana; Palfi, Andrei, Caprioru Mircea (2013) Microcontroller Implementation of a Multivariable Fractional Order PI Controller, *Control Systems and Computer Science (CSCS), 2013 19th International Conference on*, DOI: 10.1109/CSCS.2013.9, ISBN: 978-1-4673-6140-8, pp. 44 – 51, ISI PRO
6. Both, Roxana, Muresan, Cristina Ioana, **Dulf, Eva Henrietta**, Dulf, Francisc-Vasile, Microcontroller Implementation of Digital Fractional Order Controllers for Time Delay Processes, *21st Mediterranean Conference on Control and Automation*, June 25-28, 2013, Plataniias-Chania, Crete, Greece, pp.1445, ISI PRO
7. Cristina I. Muresan, **Eva H. Dulf**, Roxana Both, Fractional and Integer Order Control. Application to DC motor speed control, *17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17, ICSTCC 2013*

8. **Eva H. Dulf**, Roxana Both, Clement Festila, Marius Iosif Gretinger, Non-conventional Techniques for Frequency Response Function Measurements and Analysis, 17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17, ICSTCC 2013, ISI-PRO
9. Festila Cl., **Dulf Eva-Henrietta**, Cuna C., Asymmetric High Frequency Square Wave Generator with DC Component Control for Ion Mobility Spectrometers, *Proceedings of the 5th International Symposium on Applied Computational Intelligence and Informatics*, IEEE Catalog Number: CFP0945C-CDR, ISI PRO, ISBN: 978-1-4244-4478-6, Library of Congress: 2009903350, 2009, pp.95-98
10. Festila Clement, Pop Cristina, **Dulf Eva-Henrietta**, Baldea Aurel, Gligan Mihai, "Flooding Process Analysis by ¹³C Cryogenic Separation Column", *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16)*, 22-25 mai 2008, Cluj-Napoca, ISI-PRO, ISBN: 978-1-4244-2577-8, IEEE Catalog Number: CFP08AQCDR, Library of Congress: 2008904446, pp.96-100
11. Pop Cristina, **Dulf Eva-Henrietta**, Festila Clement, "Estimator based Flooding Predictor for (¹³C) Cryogenic Separation Column", *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16)*, 22-25 mai 2008, Cluj-Napoca, ISI-PRO, ISBN: 978-1-4244-2577-8, IEEE Catalog Number: CFP08AQCDR, Library of Congress: 2008904446, pp.207-211
12. Huzau Mihai, **Dulf Eva-Henrietta**, Tulbure Vasile, Festila Clement, "Three-phase Power Supplying System for Induction Motor of the Diesel-electric Locomotive", *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16)*, 22-25 mai 2008, Cluj-Napoca, ISI-PRO, ISBN: 978-1-4244-2577-8, IEEE Catalog Number: CFP08AQCDR, Library of Congress: 2008904446, pp.479-483
13. Horatiu Alexandru Colosi, **Eva-Henrietta Dulf**, Marius Nicolae Roman, Andrei Achimas Cadariu, "Modeling and Simulation of Controlled Orthodontic Tipping And Translation of Single-Rooted Teeth", *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16)*, 22-25 mai 2008, Cluj-Napoca, ISI PRO, ISBN: 978-1-4244-2577-8, IEEE Catalog Number: CFP08AQCDR, Library of Congress: 2008904446, pp.155-160
14. Szabó L., Oprea C., Feștilă C., **Dulf Eva Henrietta**, "Study on a Wave Energy Based Power System", *Proceedings of the 18th International Conference on Electrical Machines (ICEM '2008)*, Vilamoura (Portugalia), pe CD:Fullpaper_comm_id01199.pdf. ISBN: 978-1-4244-1736-0, pp. 1122-1127, ISI-PRO,
15. **Dulf Eva-Henrietta**, Feștilă Clement, "Model Predictive Control of the (¹³C) Isotope Separation Column", SACI-2007, 4th International Symposium on Applied Computational Intelligence and Informatics, 17-18 Mai, Timișoara, IEEE Catalog Number: 07EX1788, ISI PRO, ISBN: 1-4244-1234-X, Library of Congress: 2007925118, pp. 195-199

Conferinte BDI:

1. **Eva H. Dulf**, Cristina I. Muresan, Roxana Both, Francisc V. Dulf, Fractional order controller design for a large class of process models, *IEEE International Conference on Fractional Differentiation and its Applications*, 23-25 June 2014, Catania, Italy, DOI: 10.1109/ICFDA.2014.6967448
2. Muresan, C.I., **Dulf, E.H.**, Both, R., Ionescu, C.M., Nascu, I. (2014), Improving performance for a 13C isotope separation plant using multivariable fractional order

controllers, *IEEE International Conference on Fractional Differentiation and its Applications*, 23-25 June, Catania, Italy

3. Muresan, C.I., Both, R., **Dulf, E.H.**, Neaga, A., Ionescu, C. (2013), HIL Real-Time Simulation of a Digital Fractional Order PI Controller for Time Delay Processes, *IEEE Africon*, 9-12 September, Mauritius, DOI: 10.1109/AFRCON.2013.6757603, pp.1-5
4. **E.H. Dulf**, C. Festila, A. Baldea, Stability of the ^{13}C Column Separation in Industrial Mode of Operation, *Applied Computational Intelligence and Informatics (SACI), 2011 6th IEEE International Symposium on*, ISBN 978-1-4244-9108-7, DOI: 10.1109/SACI.2011.5872970, pp.41-44
5. Pop, C.I.; **Dulf, E.H.**; De Keyser, R.; Ionescu, C.; Muresan, B.; Festila, C.I., Predictive control of the multivariable time delay processes in an isotope separation column, *Applied Computational Intelligence and Informatics (SACI), 2011 6th IEEE International Symposium on*, ISBN: 978-1-4244-9108-7, DOI: 10.1109/SACI.2011.5872968, pp.29-34
6. **Dulf E.H.**, Cl. Festila, F.V. Dulf, C.I. Pop, R. Both, Fractional Order Controller Design for ^{13}C Separation Column, *Control & Automation (MED), 2011 19th Mediterranean Conference on* DOI: 10.1109/MED.2011.5983150, pp. 582 – 587,
7. Festila Cl., **Dulf E.H.**, Baldea A., Level and Pressure Control in Condenser of the ^{13}C Isotope Separation Column, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17)*, 28-30 mai 2010, Cluj-Napoca, ISBN: 978-1-4244-6722-8, IEEE Catalog Number: CFP10AQT-PRT, pp.125-131
8. Pop I.C., Cl. Festila, **Dulf E.H.**, Muresan B., Feedback Linearization Control Design for the ^{13}C Cryogenic Separation Column, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17)*, 28-30 mai 2010, Cluj-Napoca, ISBN: 978-1-4244-6722-8, IEEE Catalog Number: CFP10AQT-PRT, pp.157-163
9. **Dulf E.H.**, Both R., Dumitrache D.C., Fractional Order Models for a Cryogenic Separation Column, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17)*, 28-30 mai 2010, Cluj-Napoca, ISBN: 978-1-4244-6722-8, IEEE Catalog Number: CFP10AQT-PRT, pp.163-169, DOI: 10.1109/AQTR.2010.5520895, **INSPEC Accession Number: 11508520**
10. Both R., Festila Cl., **Dulf E.H.**, Neaga A.O., Modeling and Simulation of the Liquid Phase 2-ethyl-hexenal Hydrogenation, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17)*, 28-30 mai 2010, Cluj-Napoca, ISBN: 978-1-4244-6722-8, IEEE Catalog Number: CFP10AQT-PRT, pp.213-219
11. Huzau M., Both R., **Dulf E.H.**, Tulbure V., Non-conventional Supplying System for Induction Traction Motors from Diesel Locomotives, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17)*, 28-30 mai 2010, Cluj-Napoca, ISBN: 978-1-4244-6722-8, IEEE Catalog Number: CFP10AQT-PRT, pp.265-269
12. Szelitzky T., **Dulf E.H.**, Advantages of Robust Control for Series Load Pulse Amplitude Modulation Induction Heating Inverter, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17)*, 28-30 mai 2010, Cluj-Napoca, ISBN: 978-1-4244-6722-8, IEEE Catalog Number: CFP10AQT-PRT, pp.117-121
13. Festila Cl., Pop I.C., **Dulf E.H.**, Synchronous Rectification Applied in a Transfer Function Analyzer, *International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17)*, 28-30 mai 2010, Cluj-Napoca, ISBN: 978-1-4244-6722-8, IEEE Catalog Number: CFP10AQT-PRT, pp.121-125

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F. Alte lucrări și contribuții științifice

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