

A simple and inexpensive instrument to record occasional voltage peaks through a long period : (operating principle, utilization, parameters)

Janson, Kuno; Järvik, Jaan VII Sympozjum na temat Przepiecia w urzadzeniach elektrycznych i elektronicznych, Holny Mejera 16-19 pazdziernika 1996 r 1996 / s. 43-45: ill

AC losses analysis approaches for electric vehicle motors with hairpin winding configuration

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Marques Cardoso, Antonio J.; **Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas** IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-4 : ill
<https://doi.org/10.1109/IECON48115.2021.9589339> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Tarraste, Marek; Vaimann, Toomas; Rassõlkin, Anton; Asad, Bilal; Shams Ghahfarokhi, Payam Energies 2021 / 13 p. : ill <https://doi.org/10.3390/en14051241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Acoustic noise computation of electrical motors using the boundary element method

Sathyan, Sabin; Aydin, Ugur; **Belahcen, Anouar** Energies 2020 / art. 0245 <https://doi.org/10.3390/en13010245> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive design possibilities of electrical machines

Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill
<https://doi.org/10.1109/RTUCON.2018.8659828>

Additive manufacturing of electrical machines

Kallaste, Ants 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 61-62 : ill
https://www.ester.ee/record=b5183874*est

Additive manufacturing of electrical machines - towards the industrial use of a novel technology

Vaimann, Toomas; Kallaste, Ants Energies 2023 / art. 544 <https://doi.org/10.3390/en16010544> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive manufacturing of prototype axial flux switched reluctance electrical machine

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 4 p. : ill <https://doi.org/10.1109/IWED52055.2021.9376337>

Additively manufactured advanced thermal management solutions for electrical machines = Kihltisandusmeetodil valmistatud täiustatud jahutuslahendused elektrimasinatele

Sarap, Martin 2025 https://www.ester.ee/record=b5755150*est <https://digikogu.taltech.ee/et/Item/e8fe803d-bbda-41c5-b78d-3aef7b1fd504>
<https://doi.org/10.23658/taltech.54/2025>

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars

Rassõlkin, Anton; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Petrov, Aleksei; Plokhov, Igor; Kotelnikov, Aleksandr PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 213-218 : ill <https://doi.org/10.1109/PQ.2016.7724115>

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars and eccentricity faults

Petrov, Aleksei; Plokhov, Igor; **Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar** Proceeding of the 2017 IEEE 11th International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) : [Tinos (Greece), August 29 - September 01, 2017] 2017 / p. 58-64 : ill <https://doi.org/10.1109/DEMPED.2017.8062334>

An approach to the modelling of electrical machines

Lehtla, Tõnu EPE'97 : 7th European Conference on Power Electronics and Applications, 8-10 September 1997, Trondheim, Norway : proceedings 1997 / [5] p

Analysis of a slow-speed slotless permanent magnet synchronous generator

Tuttelberg, Kaur; Vaimann, Toomas; Kallaste, Ants 4th International Youth Conference on Energy 2013 : [proceedings] 2013 / p. 1-5 : ill

Analysis of advanced passive heatsinks for electrical machines enabled by additive manufacturing

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Vaimann, Toomas 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill <https://doi.org/10.1109/WEMDCD55819.2023.10110940>

Analysis of broken rotor bar diagnostic techniques for inverter fed induction motor faults

Sardar, Muhammad Usman 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering".

Analysis of the local and global forces acting on the coil structure of a modular slotless permanent magnet generator
Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar; Shams Ghahfarokhi, Payam; Rassõlkin, Anton Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 9-14 : ill <https://doi.org/10.2478/ecce-2019-0002>

Analytical and experimental investigation of neutral point clamped quasi-impedance-source inverter
Ott, Silver; Roasto, Indrek; Vinnikov, Dmitri; Lehtla, Tõnu Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 113-118 : ill

Analytical thermal model and flow network analysis suitable for open self-ventilated machines
Shams Ghahfarokhi, Payam; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas IET Electric Power Applications 2020 / p. 929-936 : ill <https://doi.org/10.1049/iet-epa.2019.1020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Artificial intelligence driven approaches for fault prognostics of electrical machines using vibration spectrum analysis = Tehisintellektil põhinevad lähenemisviisid elektrimasinate rikete prognoosimiseks vibratsioonispektri analüüsi abil
Kudelina, Karolina 2024 https://www.ester.ee/record=b5685285*est <https://doi.org/10.23658/taltech.28/2024>
<https://digikogu.taltech.ee/et/Item/229f1bbb-6178-414a-9e2e-2c98a30a783c>

Asünkroongeneraatorist
Voot, E. Tehnika Kõigile 1940 / lk. 198

Automaatika elektrimasin- ja magnetseadmed : kursuseprojekteerimise juhend automaatika ja telemehaanika eriala (0606) üliõpilastele
1984 https://www.ester.ee/record=b1245470*est

Automaatikasüsteemide elektrimasinad. 1. osa, Alalisvoolumasinad : abiõppematerjal
Samolevski, Georg 1976 https://www.ester.ee/record=b4147726*est

Automaatikasüsteemide elektrimasinad. 2. [osa], Vahelduvvoolumasinad. Asünkroonmasinad
Samolevski, Georg 1976 https://www.ester.ee/record=b4147251*est

Automaatikasüsteemide elektrimasinad. 3. [osa], Vahelduvvoolumasinad. Sünkroonmasinad : õppevahend [Tallinna Polütehnilise Instituudi elektrotehnika erialade üliõpilastele]
Samolevski, Georg 1978 https://www.ester.ee/record=b4148301*est

Automatic tolerance analysis of permanent magnet machines with encapsuled FEM Models using Digital-Twin-Distiller
Orosz, Tamas; Gadó, Krisztián; Katona, Mihály; **Rassõlkin, Anton** Processes 2021 / art. 2077, p. 1-15 : ill
<https://doi.org/10.3390/pr9112077> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Axially asymmetric design for additive manufacturing of synchronous reluctance machines
Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p <https://doi.org/10.1109/IEMDC55163.2023.10238995>

Bestimmung der Parameter des Ersatzschaltbildes eines Asynchronmotors für eine feldorientierte Regelung
Kimmer, Thomas; **Boiko, Vitali; Laugis, Juhan** 2nd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 17-22, 2005 2005 / S. 98-101 : Ill

Blended antilock braking system control method for all-wheel drive electric sport utility vehicle
Aksjonov, Andrei; **Vodovozov, Valery**; Augsburg, Klaus; **Petlenkov, Eduard** Electrimacs 2019 : Selected Papers, Vol. 1 2020 / p. 229-241 https://doi.org/10.1007/978-3-030-37161-6_17 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Capacitor coupled voltage transformer inaccuracy modeling
Asefi, Sajjad 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 73-74 : ill https://www.ester.ee/record=b5570906*est

Challenges of additive manufacturing of electrical machines
Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassõlkin, Anton; Vaimann, Toomas 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. 44-48 : ill <https://doi.org/10.1109/DEMPED.2019.8864850>

Changing of magnetic flux density distribution in a squirrel-cage induction motor with broken rotor bars
Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 11-14 : ill <https://doi.org/10.5755/j01.eee.20.7.8018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cogging torque reduction methods

Kudrjavitsev, Oleg; Kilk, Aleksander 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 212-214 : ill

Cogging torque reduction methods

Kudrjavitsev, Oleg; Kilk, Aleksander PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 251-254 : ill

Combined FE and particle swarm algorithm for optimization of high speed PM synchronous machine

Belahcen, Anouar; Martin, Florian; El Hadi Zaim, Mohammed; Dlala, Emad; Kolondzovski, Zlatko COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 475-484 : ill <http://dx.doi.org/10.1108/COMPEL-07-2014-0168>

Comparative analysis of wind generator energy efficiency based on machine design

Kallaste, Ants; Vaimann, Toomas; Kilk, Aleksander; Belahcen, Anouar 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 9-12 : ill

Comparative simulation study of pump system efficiency driven by induction and synchronous reluctance motors

Gevorkov, Levon; Dominguez-Garcia, Jose Luis; **Rassõlkin, Anton; Vaimann, Toomas** Energies 2022 / art. 4068
<https://doi.org/10.3390/en15114068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Computation of hysteresis torque and losses in a bearingless synchronous reluctance machine

Belahcen, Anouar; Mukhrejee, Victor; Martin, Florian; Rasilo, Paavo 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 214-215 : ill
[http://www.compumag.org/CMAG2017/\[PA-A5-10\]_129.pdf](http://www.compumag.org/CMAG2017/[PA-A5-10]_129.pdf)

Computation of hysteresis torque and losses in a bearingless synchronous reluctance machine

Belahcen, Anouar; Mukhrejee, Victor; Martin, Florian; Rasilo, Paavo IEEE transactions on magnetics 2018 / art. 7300804, 4 p. : ill
<https://doi.org/10.1109/TMAG.2017.2765080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Computation of magnetic forces using degenerated air-gap element

Sathyan, Sabin; **Belahcen, Anouar;** Kataja, Juhani; Henrotte, Francois; Benabou, Abdelkader; Le Menach, Yvonnick IEEE transactions on magnetics 2017 / 7401304, 4 p. : ill <https://doi.org/10.1109/TMAG.2017.2656239>

Computation of stator vibration of an induction motor using nodal magnetic forces [Online resource]

Sathyan, Sabin; **Belahcen, Anouar;** Kataja, Juhani; **Vaimann, Toomas;** Sobra, Jan 2016 XXII International Conference on Electrical Machines (ICEM) : SwissTech Convention Center, Lausanne, Switzerland, 04-07 September, 2016 : proceedings 2016 / p. 2198-2203 : ill <https://doi.org/10.1109/ICELMACH.2016.7732827>

Concepts of additively manufactured electrical machines and components

Vaimann, Toomas; Tiismus, Hans; Kallaste, Ants 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 6 p <https://doi.org/10.1109/EPE58302.2023.10149252>

Condition monitoring and diagnostic of electrical machines using IoT and machine learning

Raja, Hadi Ashraf 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 31-32 : ill https://www.ester.ee/record=b5504019*est

Condition monitoring and fault detection for electrical machines using IOT

Raja, Hadi Ashraf; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Proceedings of the Future Technologies Conference (FTC) 2022. Volume 2 2023 / p. 162-173 https://doi.org/10.1007/978-3-031-18458-1_12 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Condition monitoring of electrical machines

Vaimann, Toomas; Kallaste, Ants 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 209-212 : ill

Condition monitoring of electrical machines and its relation to IoT

Vaimann, Toomas 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 55-56 : ill
https://www.ester.ee/record=b5183874*est

Control challenges of 3D printed switched reluctance motor

Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Tiismus, Hans 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia 30th of January - 02nd of February 2019 / p. 1-4 : ill

Corrections to “Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines”

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants;** Marques Cardoso, Antonio J.; **Belahcen, Anouar;** **Vaimann, Toomas;** **Tiismus, Hans;** **Asad, Bilal** IEEE Access 2021 / p. 62532 <https://doi.org/10.1109/ACCESS.2021.3074827> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost efficiency analysis of slow-speed slotless permanent magnet synchronous generator using different magnetic materials

Laurit, Sten; **Kallaste, Ants;** **Vaimann, Toomas;** **Belahcen, Anouar** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 221-224 : ill

Current sensorless control algorithm for single-phase three-level NPC inverter

Suzdalenko, Alexander; **Zakis, Janis;** Steiks, Ingars Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2014 / p. 28-33 : ill

A current spectrum-based algorithm for fault detection of electrical machines using low-power data acquisition devices

Asad, Bilal; **Raja, Hadi Ashraf;** **Vaimann, Toomas;** **Kallaste, Ants;** Pomarnacki, Raimondas; Hyunh, Van Khang Electronics 2023 / art. 1746 <https://doi.org/10.3390/electronics12071746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Department of Fundamentals of Electrical Engineering and Electrical Machines

Keskküla, Viktor; Mezhburd, Volf; **Kont, Alar;** **Siimar, Veiko;** **Järvik, Jaan** Research activities / Tallinn Technical University 1993 / p. 37-40 https://www.ester.ee/record=b1053754*est

Design and modeling of contoured airgap topology for additively manufactured electrical machines = Kõverdatud õhupilu topoloogiaga kihtlisandusmeetodil valmistatud elektrimasinate projekteerimine ja modelleerimine

Naseer, Muhammad Usman 2025 https://www.ester.ee/record=b5747039*est <https://doi.org/10.23658/taltech.32/2025> <https://digikogu.taltech.ee/et/Item/af3abd72-6077-43be-b7ed-5fa0b3f58602>

Design and prototyping of directly driven outer rotor permanent magnet generator for small scale wind turbines [Online resource]

Vaimann, Toomas; **Kudrjavitsev, Oleg;** **Kilk, Aleksander;** **Kallaste, Ants;** **Rassõlkin, Anton** Advances in electrical and electronic engineering 2018 / p. 271-278 : ill <https://doi.org/10.15598/aeer.v16i3.2698> [Journal metrics at Scopus](#) [Article at Scopus](#)

Design of an additively manufactured polymer composite electrical machine

Sarap, Martin; **Kallaste, Ants;** **Naseer, Muhammad Usman;** **Tiismus, Hans;** **Rjabtšikov, Viktor;** **Shams Ghahfarokhi, Payam;** **Vaimann, Toomas;** **Aman, Alexander;** **Kutia, Mykhailo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227413>

Design of an additively manufactured thermal solution for an axial flux switched reluctance motor

Sarap, Martin; **Singh, Shalini;** **Kallaste, Ants;** **Jawad Qureshi, Ahmed Jawad;** **Tiismus, Hans;** **Vaimann, Toomas;** **Shams Ghahfarokhi, Payam** Case studies in thermal engineering 2025 / art. 105805 <https://doi.org/10.1016/j.csite.2025.105805>

Design of permanent magnet assisted synchronous reluctance machine

Kallaste, Ants; **Vaimann, Toomas;** **Belahcen, Anouar** Proceedings : 2014 15th International Scientific Conference on Electric Power Engineering (EPE) 2014 / p. 579-582 : ill

Design procedure and preliminary analysis for the introduction of axial asymmetry in the synchronous reluctance machines

Naseer, Muhammad Usman 22nd International Symposium “Topical Problems in the Field of Electrical and Power Engineering”. Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 33-34 : ill https://www.ester.ee/record=b5570906*est

Design procedure and preliminary analysis for the introduction of axial asymmetry in the synchronous reluctance machines : [proceedings]

Naseer, Muhammad Usman; **Kallaste, Ants;** **Asad, Bilal;** **Vaimann, Toomas;** **Rassõlkin, Anton** 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill <https://doi.org/10.1109/WEMDCD55819.2023.10110903>

Detection of induction motor broken bars in grid and frequency converter supply

Vaimann, Toomas; **Belahcen, Anouar;** **Martinez, Javier;** **Kilk, Aleksander** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvia : [abstracts] 2012 / p. 112 : ill https://www.researchgate.net/publication/262674778_Detection_of_induction_motor_broken_bars_in_grid_and_frequency_converter_supply

Detection of induction motor broken bars in grid and frequency converter supply

Vaimann, Toomas; Belahcen, Anouar; Martinez, Javier; **Kilk, Aleksander** Przegląd elektrotechniczny 2014 / p. 90-94 : ill
<https://www.pe.org.pl/articles/2014/1/22.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

Determining the thermal conductivity of additively manufactured metal specimens

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2022 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / 4 p
<https://doi.org/10.1109/IWED54598.2022.9722591>

Development and utilization of synthetic signals for fault diagnostics of electrical machines

Raja, Hadi Ashraf; Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants IEEE journal of emerging and selected topics in industrial electronics 2024 / 9 p <https://doi.org/10.1109/JESTIE.2024.3395650>

Diagnostika säästab elektrimasinate tervist

Vaimann, Toomas; Kilk, Aleksander Keskkonnatehnika 2011 / 5, lk. 31-32 : ill https://artiklid.elnet.ee/record=b2426053*est

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing

Sarap, Martin 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 31-32 : ill https://www.ester.ee/record=b5570906*est

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 4 p <https://doi.org/10.1109/IEMDC55163.2023.10238858>

Direct liquid cooling in low-power electrical machines : proof-of-concept

Lindh, Pia; Petrov, Ilya; Semken, R. Scott; **Vaimann, Toomas; Kallaste, Ants** IEEE transactions on energy conversion 2016 / p. 1257-1266 : ill <https://doi.org/10.1109/TEC.2016.2597059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic modeling of the demagnetization in Halbach array permanent magnet machines

Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas COMPUMAG 2013 : [proceedings] 2013 / p. 1-2 : ill

Eesti elektrimasinate-ehituse aktsiaseltsi, Tallinnas, põhikiri

Riigi Teataja Lisa 1925 / lk. 1825-1831

The effect of build direction on the thermal conductivity of additively manufactured AIS10Mg and silicon-steel samples : [conference paper]

Sarap, Martin 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 29-30 : ill https://www.ester.ee/record=b5504019*est

Effect of multi-axial stress on iron losses of electrical steel sheets

Aydin, Ugur; Rasilo, Paavo; Martin, Florian; **Belahcen, Anouar** Journal of magnetism and magnetic materials 2019 / p. 19-27 : ill
<https://doi.org/10.1016/j.jmmm.2018.08.003>

Effect of PM parameters variability on the operation quantities of a wind generator

Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas 2015 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings : Castello del Valentino, Torino, Italy, 26-27 March, 2015 2015 / p. 242-247 : ill
<http://dx.doi.org/10.1109/WEMDCD.2015.7194536>

Effects of stator core welding on an induction machine – measurements and modeling

Sundaria, Ravi; Daem, Andries; Osemwinyen, Osaruyi; Lehtikoinen, Antti; Sergeant, Peter; Arkio, Antero; **Belahcen, Anouar** Journal of Magnetism and Magnetic Materials 2020 / art. 166280 <https://doi.org/10.1016/j.jmmm.2019.166280> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electric vehicle fast charger high voltage input multiport converter topology analysis [Electronic resource]

Jalakas, Tanel; Roasto, Indrek; Vinnikov, Dmitri CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 326-331 : ill [CD-ROM]

Electrical and thermal anisotropy in additively manufactured AlSi10Mg and Fe-Si samples

Sarap, Martin; Tiismus, Hans; Kallaste, Ants; Saarna, Mart; Kolnes, Märt; Shams Ghahfarokhi, Payam; Vaimann, Toomas Machines 2025 / art. 1 <https://doi.org/10.3390/machines13010001>

Electrical machine research in TalTech

Vaimann, Toomas 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 39-40 : ill https://www.ester.ee/record=b5291755*est

Electrical resistivity of additively manufactured silicon steel for electrical machine fabrication

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818252>

Elektri abil leivaküpsetamine Helveetsias : [elektriahjud]

Eesti Tehnika Seltsi Ajakiri 1920 / lk. 199

Elektriamid

Lehtla, Tõnu 2007 http://www.ester.ee/record=b2292918*est

Elektriamid : [bakalaureuse- ja magistriõppe õpik]

Lehtla, Tõnu; Risthein, Endel 2007 https://www.ester.ee/record=b2272845*est

Elektriamid : [õpik]

Lehtla, Tõnu; Risthein, Endel 2007 https://www.ester.ee/record=b2292918*est

Elektrigeneraatorite koguvõimsused jaotatud seadete liikide ja algenergia allikate järele : [tabel]

Eesti Tehnilise Järelevalve Seltsi 1929. aasta tegevuse aruanne 1930 / lk. 30-31

Elektrimasinad

Puusepp, Eugen Masinaehitaja käsiraamat. 1. kd 1968 / lk. 266-288 https://www.ester.ee/record=b1298495*est

Elektrimasinad : laboratoorsete tööde programmid ja metoodilised juhendid

1978 https://www.ester.ee/record=b1314034*est

Elektrimasinad : õppevahend Eesti NSV kesk-eriõppeasutuste elektrotehniliste erialade õpilastele

Jänes, Hans; Kaasik, Paul; Puusepp, Eugen; Voldek, Aleksander 1961 https://www.ester.ee/record=b1374107*est

Elektrimasinad automaatikaseadmele : masinvõimendid

Samolevski, Georg 1963 https://www.ester.ee/record=b1149350*est

Elektrimasinad. 1

Voldek, Aleksander 1972 https://www.ester.ee/record=b1324816*est

Elektrimasinad. 1

Võrk, Hans Roland 1947 https://www.ester.ee/record=b1319145*est

Elektrimasinad. 2

Voldek, Aleksander 1973 https://www.ester.ee/record=b1319264*est

Elektrimasinate alase tehnilise kõrghariduse ajalugu ja areng Eestis

Kilk, Aleksander Elektrotehnika aluste ja elektrimasinate instituut 50 : infokilde tänapäevast ja möödunust 2016 / lk. 16-18 https://www.ester.ee/record=b4560920*est

Elektrimasinate alasest inseneriõppest

Kilk, Aleksander Elektrotehnika aluste ja elektrimasinate instituut 50 : infokilde tänapäevast ja möödunust 2016 / lk. 20-21 https://www.ester.ee/record=b4560920*est

Elektrimasinate alused

Janson, Kuno; Kallaste, Ants 2017 http://www.ester.ee/record=b4694078*est <https://digikogu.taltech.ee/et/Item/eb44ad2b-8758-41cd-9483-f8fdb1d40a1c>

Elektrimasinate diagnostika - lihtne viis suureks kokkuhoiuks

Vaimann, Toomas; Kilk, Aleksander Elektriala 2011 / 5, lk. 26-27 : ill

Elektrimasinate diagnostika kui moodus nende eluea pikendamiseks

Vaimann, Toomas; Kilk, Aleksander Inseneeria 2011 / lk. 38, 40 : ill https://www.ester.ee/record=b1519314*est

Elektrimasinate ehituse ainete omadused

Võrk, Hans Roland 1930 https://www.ester.ee/record=b1308776*est

Elektrimasinate ja aparaatide tööstus

Eesti tööstus-kaubanduse tutvustaja : 1927 1927 / lk. 89-90

Elektrimasinate mähkimine : eesti-soome-rootsi-inglise-saksa-vene sõnastik

Jokiniemi, Matti; Jokinen, Tapani Veikko Juhani; **Loigom, Villem** 1993 https://www.ester.ee/record=b1064666*est

Elektrimasinate soojusarvutus on uute masinate projekteerimisel määrava tähtsusega

Vaimann, Toomas Elektriala 2020 / lk. 12-13 : ill http://www.ester.ee/record=b1240496*est

Elektrimasinate süsiharjadest

Martin, K. Elektrik 1935 / lk. 5-7

Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt [Võrguväljaanne]

Kudelina, Karolina novaator.err.ee 2021 "[Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt](#)"

Elektrimasinate-alasest inseneriõppest

Kilk, Aleksander Tallinna Polütehnik : TPI parteikomitee, rektoraadi, komsomolikomitee, ametiühingukomitee häälekandja 1987 / lk. 2 https://www.ester.ee/record=b1254708*est <https://digikogu.taltech.ee/et/Item/c2f8dda8-7133-4dd6-b25e-2dc842cd5563>

Elektrimasinatealasest inseneriõppest TPI-s

Kilk, Aleksander Kõrgema tehnilise hariduse ja tehnilise mõtte areng Eestis 1988 / lk. 46-51

Elektrimootorite 3D-printimine ei ole ulme

Vaimann, Toomas; Kallaste, Ants Director. Inseneeria 2021 / lk. 74-78 : fot <https://director.ee/2021/02/03/elektrimootorite-3d-printimine-ei-ole-ulme/> http://www.ester.ee/record=b2336521*est

Elektrimootorite automaatne kauglülimine

Rava, R. Tehnika Kõigile 1938 / lk. 338-341 : joon., fot

Elektrimootorite ehitusviisid

Rava, R. Tehnika Kõigile 1936 / lk. 109-111 : fot., joon

Elektrimootorite kaitsmetest

Rava, R. Tehnika Kõigile 1936 / lk. 268-271 : fot., joon

Elektrimootorite laagritest ja nende määrimisest

Tehnika Kõigile 1939 / lk. 22-25 : joon., fot

Elektrimootorite moodsaid kaitsmisviise

Tehnika Kõigile 1938 / lk. 291

Elektrimootoritest

Haidak, Friedrich Tehnika Kõigile 1938 / lk. 57 : joon

Elektrische Maschinen : Texte für Energetiker und Elektrotechniker

1987 https://www.ester.ee/record=b1474923*est

Elektritoiteseadmed

Martverk, Peep 1998 https://www.ester.ee/record=b1197935*est

Elektrotehnika aluste ja elektrimasinate instituut

Külm, Evald Teadustegevus / TTÜ 1993 / lk. 37-40

Elektrotehnikas kasutatavad tähised

Risthein, Endel 2008 https://www.ester.ee/record=b2362042*est

"EI"-mootor [väikepöõlupidajatele]

Eesti Tehnika Seltsi Ajakiri 1921 / lk. 155-157 : fot

EMC education and related problems at Tallinn Technical University [Electronic resource]

Järvik, Jaan; Janson, Kuno; Bolgov, Viktor; Kroos, Peep Proceedings of 5th International Conference 2007 : Compatibility in Power Electronics : 29 May - 1 June 2007, Gdynia, Poland 2007 / [3] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4296547>

Environmental and life cycle cost analysis of a synchronous reluctance machine [Online resource]

Rassõlkin, Anton; Orlova, Svetlana; **Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants** 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [5] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763127>

Environmental considerations in lifecycle based optimization of electrical machines

Vaimann, Toomas; Kallaste, Ants; Bolgov, Viktor; Belahcen, Anouar Proceedings of the 2015 16th International Scientific Conference on Electric Power Engineering (EPE) : May 20-22, 2015, Czech Republic 2015 / p. 209-214 : ill <http://dx.doi.org/10.1109/EPE.2015.7161057>

Equivalent strain and stress models for the effect of mechanical loading on the permeability of ferromagnetic materials

Rasilo, Paavo; Aydin, Ugur; Martin, Florian; **Belahcen, Anouar**; Kouhia, Reijo; Daniel, Laurent IEEE transactions on magnetics 2019 / art. 2002104, <https://doi.org/10.1109/TMAG.2018.2890407>

Eriotstarbelised elektrimasinad ja elektromagnetilised juhtimis- ning kontrollseadmed

Mežburd, Volf Tehnikauuringute areng Eesti NSV-s : vabariikliku konverentsi ettekannete teesid Tallinn, 15.-16. oktoober 1986 1986 / lk. 114-116 https://www.ester.ee/record=b1258828*est

Esimene alalisvoolugeneraator pingele üle 1 miljoni voldi

Tehnika Kõigile 1937 / lk. 345 : fot

Estimation of additional losses due to random contacts at the edges of stator of an electrical machine

Shah, Sahas Bikram; Rasilo, Paavo; **Belahcen, Anouar**; Arkkio, Antero COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 1501-1510 : ill <http://dx.doi.org/10.1108/COMPEL-02-2015-0083>

Evaluation of 3D-printed magnetic materials for additively-manufactured electrical machines

Selema, Ahmed; Beretta, Margherita; Van Coppenolle, Matty; **Tiismus, Hans; Kallaste, Ants**; Ibrahim, Mohamed N.; Rombouts, Marleen; Vleugels, Jozef; Kestens, Leo A.I.; Sergeant, Peter Journal of magnetism and magnetic materials 2023 / art. 170426, 12 p. : ill <https://doi.org/10.1016/j.jmmm.2023.170426> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Exterior-rotor permanent magnet synchronous machine with toroidal windings for unmanned aerial vehicles

Nukki, Rene; Kilk, Aleksander; Kallaste, Ants; Vaimann, Toomas; Tiimus, Kristjan PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 215-220 : ill

Finite element analysis based technique implementation for fault diagnostic of electrical machines

Akbar, Siddique 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 103-104 https://www.ester.ee/record=b5570906*est

Fundamentals of electrical machines

Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Janson, Kuno 2026 https://www.routledge.com/Fundamentals-of-Electrical-Machines/Kallaste-Vaimann-Rassolkin-Janson/p/book/9781032518206?srsltid=AfmBOopOWsvE7PCq4afDRJAsSt-7MPjB1tipnsK8Yhta6i_tqjiPvPr

Future trends in design of electrical machines

Kallaste, Ants 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 51-52 https://www.ester.ee/record=b5291755*est

Grafiitlaagrid elektrimootoritele

Tehnika Kõigile 1940 / lk. 120

Hairpin windings manufacturing, design, and AC losses analysis approaches for electric vehicle motors

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas** 2021 11th International Electric Drives Production Conference (EDPC) : 7-9 Dec. 2021 2021 / p. 1-7 <https://doi.org/10.1109/EDPC53547.2021.9684208>

Hiigla transformator

Teadus. Tehnika. Raadio 1929 / lk. 17

Hilbert transform, an effective replacement of Park's vector modulus for the detection of rotor faults

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818227>

Hysteresis loss evaluation of additively manufactured soft magnetic core

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassõlkin, Anton; Vaimann, Toomas 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1657-1661 <https://doi.org/10.1109/ICEM49940.2020.9270836>

Impact of bearing faults on vibration level of BLDC motor

Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill <https://doi.org/10.1109/IECON48115.2021.9589268> [Conference Proceedings at](#)

Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM

Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants Electronics (Switzerland) 2024 / art. 1292

<https://doi.org/10.3390/electronics13071292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improved sampling algorithm for stochastic modelling of random-wound electrical machines

Lehikoinen, Antti; Chiodetto, Nicola; Arkkio, Antero; **Belahcen, Anouar** The journal of engineering 2019 / p. 3976–3980

<https://doi.org/10.1049/joe.2018.8093>

Initial design estimation of synchronous machines

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton International Workshop on

Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 <https://doi.org/10.1109/IWED54598.2022.9722585>

Installeeritud elektrigeneraatorite võimsused ja produtseeritud energia hulk 1931. a. tööstuste ja algenergia allikate järele : [tabel]

Eesti Tehnilise Järelevalve Seltsi 1931. a. tegevuse aruanne 1932 / lk. 18-19

Installeeritud elektrigeneraatorite võimsused ja toodetud elektrienergia hulk 1932. aastal tööstuste ja algenergia allikate järele : [tabel]

Eesti Tehnilise Järelevalve Seltsi 1932. a. tegevuse aruanne 1933 / lk. 18-19

Installeeritud elektrigeneraatorite võimsused ja toodetud elektrienergia hulk 1933. a. tööstuste ja algenergia allikate järele : [tabel]

Eesti Tehnilise Järelevalve Seltsi 1933. a. tegevuse aruannene 1934 / lk. 18

Installeeritud elektrigeneraatorite võimsused ja toodetud elektrienergia hulk 1934. a. tööstuste ja algenergia allikate järele : [tabel]

Eesti Tehnikalise Järelevalve Seltsi 1934. aasta tegevuse aruanne 1935 / lk. 28

Installeeritud elektrigeneraatorite võimsused ja toodetud energia 1932. aastal seadete asukohtade ja algenergia allikate järele : [tabel]

Eesti Tehnilise Järelevalve Seltsi 1932. a. tegevuse aruanne 1933 / lk. 20-24

Installeeritud elektrigeneraatorite võimsused ja toodetud energia 1933. aastal seadete asukohtade ja algenergia allikate järele : [tabel]

Eesti Tehnilise Järelevalve Seltsi 1933. aasta tegevuse aruanne 1934 / lk. 19

Installeeritud elektrigeneraatorite võimsused ja toodetud energia 1934. a. seadete asukohtade ja algenergia allikate järele : [tabel]

Eesti Tehnikalise Järelevalve Seltsi 1934. aasta tegevuse aruanne 1935 / lk. 29

Intelligent condition monitoring methods for electrical machines and drive systems

Kudelina, Karolina 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 35-36 : ill https://www.ester.ee/record=b5457278*est

Intelligent traction control for electric vehicles using hyperspectral imaging

Valme, Daniil 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 15-16 : ill https://www.ester.ee/record=b5570906*est

IoT based tools and methods for electrical machine diagnostics

Raja, Hadi Ashraf 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 115-116 : ill https://www.ester.ee/record=b5291755*est

IoT based tools and methods for electrical machine diagnostics = Asjade interneti põhised tööriistad ja meetodid elektrimasinate diagnostikaks

Raja, Hadi Ashraf 2023 <https://doi.org/10.23658/taltech.20/2023> <https://digikogu.taltech.ee/et/Item/3015334f-c32b-43ae-ba2d-bfcd4536aba5> https://www.ester.ee/record=b5558656*est

IoT based tools for data acquisition and monitoring of electrical machines

Raja, Hadi Ashraf 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 85-86 : ill https://www.ester.ee/record=b5457278*est

Karolina Kudelina: andekaid inseneritüdrukuid tuleb julgustada [Võrguväljaanne]

Kudelina, Karolina err.ee 2022 ["Karolina Kudelina: andekaid inseneritüdrukuid tuleb julgustada"](#)

Kohtume jälle : Elektrimasinate kateeder 25

Kont, Alar Tallinna Polütehnik : TPI parteikomitee, rektoraadi, komsomolikomitee, ametiühingukomitee häälekandja 1987 / lk. 2
https://www.ester.ee/record=b1254708*est <https://digikogu.taltech.ee/et/Item/c2f8dda8-7133-4dd6-b25e-2dc842cd5563>

3D-prinditud jahuti muudab elektrimasinad töökindlamaks ja tõhusamaks

Sarap, Martin novaator.err.ee 2023 [3D-prinditud jahuti muudab elektrimasinad töökindlamaks ja tõhusamaks](#)

3D printimine avab elektrimasinate tootmisel ennenägematuid võimalusi

Vaimann, Toomas Elektriala 2023 / lk. 22-23 : portr., fot https://www.ester.ee/record=b1240496*est

Kolm taotlust

Vallaste, Eino Elektrotehnika aluste ja elektrimasinate instituut 50 : infokilde tänapäevast ja möödunust 2016 / lk. 12-13 : fot
https://www.ester.ee/record=b4560920*est

Kolmefaasiliste asünkroonmootorite käivitamisest

Rava, R. Tehnika Kõigile 1937 / 1, lk. 25-27; 2, lk. 52-54 : joon

Kõne [elektrotehnika aluste] kateedri 25. aastapäeval 1987. a

Kont, Alar Elektrotehnika aluste ja elektrimasinate instituut 50 : infokilde tänapäevast ja möödunust 2016 / lk. 21-26
https://www.ester.ee/record=b4560920*est

Käigukastiga elektrimootorid

Rava, R. Tehnika Kõigile 1940 / lk. 22 : fot

Laboratoorsete tööde ülesanded ja meetodilised juhendid õppeaines "Elektrimasinad" erialadele 0601, 0612, 0628

1978 https://www.ester.ee/record=b1313654*est

Laboratoorsete tööde ülesanded õppeaines "Elektrimasinad" automaatika ja telemehaanika eriala üliõpilastele

1964 https://www.ester.ee/record=b1373998*est

Laboratoorsete tööde ülesanded õppeaines "Elektrimasinad" automaatika ja telemehaanika eriala üliõpilastele

1969 https://www.ester.ee/record=b1339948*es

Laboratory development system for electrical drives and industrial process control

Lehtla, Tõnu; Joller, Jüri Automaatio 97, 23.-25.9.1997, Helsinki, Finland : esitelmien lyhennelmät 1997 / p. 191

Laser additively manufactured magnetic core design and process for electrical machine applications

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Lind, Liina; Virro, Indrek; Rassõlkin, Anton; Dedova, Tatjana Energies 2022 / art. 3665 <https://doi.org/10.3390/en15103665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Life cycle analysis of electrical motor-drive system based on electrical machine type

Rassõlkin, Anton; Belahcen, Anouar; Kallaste, Ants; Vaimann, Toomas; Heidari, Hamidreza; Asad, Bilal Proceedings of the Estonian Academy of Sciences 2020 / p. 162–177 : ill <https://doi.org/10.3176/proc.2020.2.07> [journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lifecycle-based design and optimization of electrical motor-drives - challenges and possibilities

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander; Belahcen, Anouar The 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS 2013) : [proceedings] 2013 / p. 1-4 : ill

Loss model for the effects of steel cutting in electrical machines

Sundaria, Ravi; Nair, D. G.; Lehtikainen, Antti; Arkkio, Antero; Belahcen, Anouar 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 1260–1266 : ill
<http://doi.org/10.1109/ICELMACH.2018.8506822>

Magneeto

Prükkel, R. Tehnika Kõigile 1937 / lk. 289-290 : joon

Magnetic properties of reduced Dy NdFeB permanent magnets and their usage in electrical machines

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander; Belahcen, Anouar IEEE AFRICON 2013 : [proceedings] 2013 / p. 1124-1128 : ill <https://doi.org/10.1109/AFRICON.2013.6757787> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Material properties for 3D printing electrical machines

Tiismus, Hans 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 139-140

https://www.ester.ee/record=b5183874*est

Mechanical vibration analysis of induction machine under dynamic rotor eccentricity [Electronic resource]

Sobra, Jan; **Vaimann, Toomas; Belahcen, Anouar** 2016 17th International Scientific Conference on Electric Power Engineering (EPE) : proceedings 2016 / [4] p. : ill. [USB] <https://doi.org/10.1109/EPE.2016.7521732>

A method for contouring an airgap profile in an electromagnetic device

Naseer, Muhammad Usman; Kallaste, Ants; Vaimann, Toomas 2025 <https://www.etis.ee/Portal/IndustrialProperties/Display/4de92487-f0be-4f69-bd60-e647dcc5920f> <https://digikogu.taltech.ee/et/Item/af3abd72-6077-43be-b7ed-5fa0b3f58602>

Methods of condition monitoring and fault detection for electrical machines

Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Khang, Huynh Van Energies 2021 / art. 7459, 20 p. : ill <https://doi.org/10.3390/en14227459> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metoodiline juhend kursuseprojektide koostamiseks õppeaines "Elektrimasinad" : elektrimasinate ja -aparaatide, elektriagamite ja tööstusseadmete automatiseerimise, elektrijaamade ning elektrisüsteemide ja -võrkude eriala üliõpilastele

1975 https://www.ester.ee/record=b1326767*est

Metoodiline juhend kursuseprojektide koostamiseks õppeaines "Elektrimasinad" : elektrimasinate ja -aparaatide, elektriagamite ja tööstusseadmete automatiseerimise, elektrijaamade ning elektrisüsteemide ja -võrkude eriala üliõpilastele

1973 https://www.ester.ee/record=b1315828*est

Metoodiline juhend kursuseprojektide koostamiseks õppeaines "Elektrimasinad" : elektrimasinate ja -aparaatide, elektriagamite ja tööstusseadmete automatiseerimise, elektrijaamade ning elektrisüsteemide ja -võrkude eriala üliõpilastele

1977 https://www.ester.ee/record=b1293169*est

Mixed-order finite-element modeling of magnetic material degradation due to cutting

Sundaria, Ravi; Lehtikoinen, Antti; Hannukainen, Antti; Arkkio, Antero; **Belahcen, Anouar** IEEE transactions on magnetics 2018 / art. 7402008, 8 p. : ill <http://dx.doi.org/10.1109/TMAG.2018.2811385>

Model-based learning in electric drive design

Vodovozov, Valery; Raud, Zoja Modelling and Simulation 2008 : The European Simulation and Modelling Conference 2008 : ESM'2008 : October 27-29, 2008, Le Havre, France 2008 / p. 355-359 : ill https://www.researchgate.net/publication/290347959_Model-based_learning_in_electric_drive_design

The modeling and investigation of slot skews and supply imbalance on the development of principal slotting harmonics in squirrel cage induction machines

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Khang, Huynh Van; Shams Ghahfarokhi, Payam; Naseer, Muhammad Usman; Iqbal, Muhammad Naveed IEEE Access 2021 / p. 165932-165946 <https://doi.org/10.1109/ACCESS.2021.3134331> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modeling of hysteresis losses in ferromagnetic laminations under mechanical stress

Rasilo, Paavo; Singh, Deepak; Aydin, U.; Martin, Florian; Kouhia, Reijo; **Belahcen, Anouar**; Arkkio, Antero IEEE transactions on magnetics 2016 / art. 7300204, [4] p. : ill <http://dx.doi.org/10.1109/TMAG.2015.2468599>

Modelling EVs in residential distribution grid with other nonlinear loads [Electronic resource]

Niitsoo, Jaan; Taklaja, Paul; Palu, Ivo; Kiitam, Ivar 2015 IEEE 15th International Conference on Environment and Electrical Engineering : conference proceedings : June 10-13, 2015, Rome 2015 / p. 1543-1548 : ill. [CD-ROM] <http://dx.doi.org/10.1109/EEEIC.2015.7165401>

Modified initial design procedure for synchronous reluctance motor

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1969-1975 <https://doi.org/10.1109/ICEM51905.2022.9910594>

Mootori süüteseadeid

Volberg, A. Põllumajandus-tehniline käsiraamat kalender 1930 1930 / lk. 104-172 : joon

Mootori võimest

Elektrik 1935 / lk. 24-25 : joon

Mootorite ja transformaatorite korrashoid : praktilisi näpunäiteid mähkimistöõdeks

Elektrik 1937 / 11, lk. 193-194; 12, lk. 214-215; 13/14, lk. 236-239 : joon

Naine, kes muudab maailma: noor teadlane loob süsteemi, mis ennetab elektrimasinate rikkeid [Võrguväljaanne]

Keba, Triinu delfi.ee 2022 [Naine, kes muudab maailma: noor teadlane loob süsteemi, mis ennetab elektrimasinate rikkeid](#)

Necessity for implementation of inverse problem theory in electric machine fault diagnosis

Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants SDEMPED 2015 : 10th IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives : Guarda, Portugal, September 1-4, 2015 : proceedings 2015 / p. 380-385 : ill <http://dx.doi.org/10.1109/DEMPED.2015.7303718>

A neuro-fuzzy approach for broken rotor bar fault prediction in induction motors via current spectrum analysis

Raja, Hadi Ashraf; Vaimann, Toomas; Asad, Bilal; Kallaste, Ants; Sardar, Muhammad Usman 2025 IEEE Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) : proceedings 2025 / 7 p <https://doi.org/10.1109/SDEMPED53223.2025.11154194>

Noorteadlane: naise koht ei ole kõõgis

Kudelina, Karolina Äripäev 2022 / lk. 23 : fot [Äripäev 20220630](#)

Object-oriented electric drive development technology

Vodovozov, Valery; Laugis, Juhan [Proceedings of the] International Electric Machines and Drives Conference : IEMDC'07 : May 3-5, 2007, Antalya, Turkey 2007 / p. 1215-1219 : ill

Oil spray cooling system in electrical machine

Shams Ghahfarokhi, Payam 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 11-12 : ill https://www.ester.ee/record=b5457278*est

Open source dataset generator for power quality disturbances with deep-learning reference classifiers

Machlev, Ram; Chachkes, A.; Belikov, Juri; Beck, Yuval; Levron, Yoash Electric power systems research 2021 / art. 107152, 7 p. : ill <https://doi.org/10.1016/j.epsr.2021.107152> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Opportunities and challenges of utilizing additive manufacturing approaches in thermal management of electrical machines

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Kallaste, Ants; Cardoso, Antonio J. Marques; Belahcen, Anouar; Vaimann, Toomas; Tiismus, Hans; Asad, Bilal IEEE Access 2021 / art. 9364970, p. 36368-36381 : ill <https://doi.org/10.1109/ACCESS.2021.3062618> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Orthogonal interpolation method for order reduction of a synchronous machine model

Far, Mehrnaz Farzam; Martin, Florian; Belahcen, Anouar; Montier, Laurent; Henneron, Thomas IEEE transactions on magnetics 2018 / 8100506, p. 1-6 : ill <https://doi.org/10.1109/TMAG.2017.2768328> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Output filter design for grid connected single phase three-level quasi-Z-source inverter [Electronic resource]

Husev, Oleksandr; Stepenko, Serhii; Roncero-Clemente, Carlos; Vinnikov, Dmitri; Romero-Cadaval, Enrique CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 46-51 : ill [CD-ROM]

Overview of control methods of reluctance machines with sensors and sensorless

Melentjev, Sergei; Belahcen, Anouar; Kallaste, Ants; Vaimann, Toomas 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 26-29 : ill

Overvoltages in an inverter-fed AC motor system with long cable

Vinnikov, Dmitri; Lehtla, Tõnu 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / p. 69-71 : ill

Overvoltages in an inverter-fed AC motor system with long cable [Electronic resource]

Vinnikov, Dmitri; Lehtla, Tõnu Proceedings of 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / [5] p. : ill. [CD-ROM]

Performance evaluation of dual rotor yokeless stator axial flux switched reluctance machine

Hussain, Shahid 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 41-42 : ill https://www.ester.ee/record=b5570906*est

Performance of additively manufactured prototype transformer core

Tiismus, Hans 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 41-42 : ill https://www.ester.ee/record=b5457278*est

Possible manufacturing tolerance faults in design and construction of low speed slotless permanent magnet generator
Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 3073-3082 : ill

Praktilisi andmeid elektrimootorite toitejuhtmete minimaalpõiklõigete määramiseks ja kaitsmete suuruse valikuks
Freymuth, H. Tehnika Kõigile 1936 / lk. 17

Preliminary analysis of bearing current faults for predictive maintenance : [conference paper]

Kudelina, Karolina 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 35-36 : ill
https://www.ester.ee/record=b5570906*est

Preliminary analysis of soft magnetic material properties for additive manufacturing of electrical machines

Tiismus, Hans; Kallaste, Ants; Rassõlkin, Anton; Vaimann, Toomas Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 270-275 : ill <https://www.scientific.net/KEM.799.270> https://www.ester.ee/record=b5235278*est
<https://doi.org/10.4028/www.scientific.net/KEM.799.270> Conference proceeding at Scopus Article at Scopus

Production and properties of additively manufactured electrical machine cores = Kihltisandus meetodil valmistatud elektrimasinate magnetsüdamikud ja nende omadused

Tiismus, Hans 2022 <https://doi.org/10.23658/taltech.49/2022> <https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046>
https://www.ester.ee/record=b5511687*est

Prototype induction motor core preparation with laser additive manufacturing

Tiismus, Hans 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 35-36 : ill https://www.ester.ee/record=b5504019*est

Pöörlevad elektrimasinad

2009 https://www.ester.ee/record=b2537047*est

Pöörlevad elektrimasinad

2006 https://www.ester.ee/record=b2223362*est

Pöörlevad elektrimasinad. Osa 1, Tunnussuurused ja talitusviisid = Rotating electrical machines. Part 1, Rating and performance (IEC 60034-1:2010, modified)

2011 https://www.ester.ee/record=b2743023*est

Pöörlevate elektrimasinate diagnostika staatorisignaali analüüsi meetodil

Vaimann, Toomas; Kallaste, Ants; Kilik, Aleksander Taastuvate energiaallikate uurimine ja kasutamine : neljateistkümnenda konverentsi kogumik = Investigation and Usage of Renewable Energy Sources : fourteenth conference proceedings : [8. nov. 2012, Tartu] 2012 / lk. 78-87 : ill

Raadiosüsteemide elektrotehnilised seadmed. 1. vihk : elektromagneetilised seadmed : alusmaterjal loengukonspekti koostamiseks = Электротехнические устройства радиосистем. 1 тетрадь. Электромагнитные устройства.

Исходный материал для составления конспектов лекций

1988 https://www.ester.ee/record=b1240347*est

Re-use and recycling of different electrical machines

Rassõlkin, Anton; Kallaste, Ants; Orlova, Svetlana; Gevorkov, Levon; Vaimann, Toomas; Belahcen, Anouar Latvian journal of physics and technical sciences 2018 / p. 13-23 : ill <https://doi.org/10.2478/lpts-2018-0025> Journal metrics at Scopus Article at Scopus

Review of design freedom offered by additive manufacturing for performance enhancement of electrical machine

Ahmad, Zahoor; Kallaste, Ants; Vaimann, Toomas; Naseer, Muhammad Usman; Hussain, Shahid; Rassõlkin, Anton IEEE Open Journal of the Industrial Electronics Society 2024 / p. 1300-1323 <https://doi.org/10.1109/OJIES.2024.3509547> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Review of electrical machine diagnostic methods applicability in the perspective of Industry 4.0

Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Belahcen, Anouar Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 108-116 : ill <https://doi.org/10.2478/ecce-2018-0013>

A review of optimization methods for electrical machines design

Andriushchenko, Ekaterina 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 101-102 : ill
https://www.ester.ee/record=b5291755*est

Review of the analytical flow model to predict the hydraulic behaviour in electrical machine

Shams Ghahfarokhi, Payam; Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818271>

Review of thermal analysis of permanent magnet assisted synchronous reluctance machines

Shams Ghahfarokhi, Payam; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 219-224 <https://doi.org/10.1109/PQ.2016.7724116>

Robust design optimization and emerging technologies for electrical machines: challenges and open problems

Orosz, Tamas; **Rassõlkin, Anton; Kallaste, Ants**; Arsenio, Pedro; Panek, David; Kaska, Jan; Karban, Pavel Applied sciences 2020 / art. 6653, 33 p. : ill <https://doi.org/10.3390/app10196653> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Role of additive manufacturing in the performance enhancement of electrical machine winding : Current status and future outlook

Ahmad, Zahoor; Kallaste, Ants; Vaimann, Toomas Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 29 ; oral 18 https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf

Rotational single sheet tester for multiaxial magneto-mechanical effects in steel sheets

Aydin, Ugur; Martin, Florian; Rasilo, Paavo; **Belahcen, Anouar** IEEE transactions on magnetics 2019 / art. 2001810, 10 p. : ill <https://doi.org/10.1109/TMAG.2018.2889238>

Segregation of iron losses from rotational field measurements and application to electrical machine

Belahcen, Anouar; Rasilo, Paavo; Arkkio, Antero IEEE transactions on magnetics 2014 / p. 893-896 : ill <https://doi.org/10.1109/TMAG.2013.2284606> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sensorless detection of induction motor faults using the clarke vector approach

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 43-48 : ill https://www.researchgate.net/publication/258547195_Sensorless_Detection_of_Induction_Motor_Rotor_Faults_Using_the_Clarke_Vector_Approach

Soojuse siirdetegur ülepühumisel

Võrk, Hans Roland Eesti Põllumajanduse Akadeemia teaduslike tööde kogumik 1961 / lk. 124-133: ill https://www.ester.ee/record=b4271227*est

State of the art of additively manufactured electromagnetic materials for topology optimized electrical machines

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton Additive manufacturing 2022 / art. 102778, 19 p. : ill <https://doi.org/10.1016/j.addma.2022.102778> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

State-of-the-Art techniques for fault diagnosis in electrical machines: Advancements and future directions

Akbar, Siddique; Vaimann, Toomas; Asad, Bilal; Kallaste, Ants; Sardar, Muhammad Usman; Kudelina, Karolina Energies 2023 / Art. 6345 <https://doi.org/10.3390/en16176345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Steady-state thermal modeling of salient pole synchronous generator

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; **Belahcen, Anouar; Vaimann, Toomas**; Kudrjavtsev, Oleg; **Asad, Bilal; Iqbal, Muhammad Naveed** Energies 2022 / art. 9460 <https://doi.org/10.3390/en15249460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey of broken rotor bar fault diagnostic methods of induction motor

Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Belahcen, Anouar Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 117–124 : ill <https://doi.org/10.2478/ecce-2018-0014>

Switching oscillation-based fractional-domain high-sensitive diagnosis of machine turn insulation degradation

Sardar, Muhammad Usman; Vaimann, Toomas; Kütt, Lauri; Asad, Bilal; Kallaste, Ants Engineering Science and Technology, an International Journal 2025 / art. 102224 <https://doi.org/10.1016/j.jestch.2025.102224>

Teadusliku töö suundadest elektrimasinate kateedris

Kont, Alar Elektrotehnika aluste ja elektrimasinate instituut 50 : infokilde tänapäevast ja möödunust 2016 / lk. 10-12 https://www.ester.ee/record=b4560920*est

Teaduspreemia tehnikateaduste alal tööde tsükli "Kihltisandustehnoloogial põhinevad elektrimasinad" eest : Toomas Vaimann, Anton Rassõlkin, Ants Kallaste (kollektiivi juht) ja Hans Tiismus

Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Tiismus, Hans Eesti Vabariigi preemiad 2022 : teadus. F. J. Wiedemanni keeleauhind. Kultuur. Sport 2022 / lk. 130-145 : ill., fot https://www.ester.ee/record=b1226072*est

Technologies for additive manufacturing of electrical machines

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Belahcen, Anouar 2019 20th International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices (EDM) 2019 / p. 651-655 : ill <https://doi.org/10.1109/EDM.2019.8823462>

Tee ühe unistuse täitumise juurde : [TTÜ elektrotehnika aluste ja elektrimasinate instituudi haridustehnoloogi Heljut Kaldat küsitles TTÜ haridustehnoloogia keskuse haridustehnoloog Merike Saar]
Kalda, Heljut E-õppe uudiskiri 2011 / lk. 8-9 : fot

Tehnoloogia ja ajamid

Lahtmets, Rain 2006 https://www.ester.ee/record=b2171348*est

Tehnoloogia ja ajamid

Lahtmets, Rain 2008 https://www.ester.ee/record=b2458261*est

A test bench to study propulsion drives of electric vehicles [Electronic resource]

Rassõlkin, Anton; Vodovozov, Valery CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 275-279 : ill [CD-ROM]

A test bench to study propulsion drives of electric vehicles with a supercapacitor storage system [Electronic resource]

Rassõlkin, Anton; Vodovozov, Valery Международная Научно-Техническая Конференция "Силовая Электроника и Энергоэффективность" : 23-27.IX 2013, Алушта, Крым 2013 / [3] p. : ill [CD-ROM]

The design process of electrical machines from the standpoint of additive manufacturing

Naseer, Muhammad Usman 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 33-34 : ill https://www.ester.ee/record=b5504019*est

Thermal analysis of salient pole synchronous machines by multiple model planes approach

Shams Ghahfarokhi, Payam; Kallaste, Ants; Podgornovs, Andrejs; Belahcen, Anouar; Vaimann, Toomas; Kudrjavitsev, Oleg 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1511-1517 <https://doi.org/10.1109/ICEM49940.2020.9270753>

Thermal analysis of the PM generator with outer rotor for wind turbine application

Kudrjavitsev, Oleg; Kilk, Aleksander; Vaimann, Toomas PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 229-232 : ill <https://doi.org/10.1109/PQ.2016.7724118>

Thermal modeling of a TEFC synchronous reluctance motor

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Marques Cardoso, Antonio J.; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 15-17 Nov. 2021 : conference proceedings 2021 / 4 p. : ill <https://doi.org/10.1109/RTUCON53541.2021.9711740>

Thermographic measurement and simulation of power losses due to interlaminar contacts in electrical sheets

Shah, Sahas Bikram; Osemwinyen, Osaruyi; Rasilo, Paavo; Belahcen, Anouar; Arkkio, Antero IEEE transactions on instrumentation and measurement 2018 / p. 2628-2634 : ill <https://doi.org/10.1109/TIM.2018.2829321>

3-D eddy current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling

Handgruber, Paul; Stermecki, Andrej; Biro, Oszkar; Belahcen, Anouar; Dlala, Emad Proceedings : 2012 XXth International Conference on Electrical Machines : Palais des Congrès et des Expositions de Marseille Marseille, France, 02-05 September, 2012 2012 / p. 16-22 : ill <https://ieeexplore.ieee.org/document/6510501>

Three-dimensional eddy-current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling

Handgruber, Paul; Stermecki, Andrej; Biro, Oszkar; Belahcen, Anouar; Dlala, Emad IEEE transactions on industry applications 2013 / p. 2044-2052 : ill <https://doi.org/10.1109/TIA.2013.2260713> <https://ieeexplore.ieee.org/document/6510501> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

3D printing of electrical machines is a cutting-edge research in TalTech [Electronic resource]

Kallaste, Ants; Vaimann, Toomas Research in Estonia 2021 / 1 p. : ill <https://researchinestonia.eu/2021/10/14/3d-printing-of-electrical-machines-is-a-cutting-edge-research-in-taltech/>

To study propulsion drives : test bench with supercapacitor storage

Rassõlkin, Anton; Vodovozov, Valery Энергосбережение, энергетика, энергоаудит = Energy saving, power engineering, energy audit 2013 / p. 65-70 : ill

Tootmispraktika läbiviimisest elektrimasinate ja aparaatide erialal

Liin, Heljut Õppemetoodika küsimusi ; 10 1973 / lk. 164-167 https://www.ester.ee/record=b1346720*est

TPI eriala "Elektrimasinad" (0601)

Kilk, Aleksander Elektrotehnika aluste ja elektrimasinate instituut 50 : infokilde tänapäevast ja möödunust 2016 / lk. 14-15

Исследование релейного режима трехступенчатого электромашиного усилителя продольного поля

Samolevski, Georg 1958 https://www.ester.ee/record=b1560117*est <https://digikogu.taltech.ee/et/Item/2377e2c7-aa84-4825-8c46-53e9d357d9b5>

Нелинейные элементы в цепях электромашиного усилителя продольного поля

Samolevski, Georg 1960 https://www.ester.ee/record=b1415953*est <https://digikogu.taltech.ee/et/Item/e2f1a6ff-c0a9-4781-bcf0-bffec6ed3ba5>

Trafo muutub väiksemaks ja nutikamaks : [koostööst TTÜ ja Poola Mereakadeemia teadlaste vahel]

Imeline Teadus 2014 / lk. 101

Uncertainty propagation of iron loss from characterization measurements to computation of electrical machines

Belahcen, Anouar; Rasilo, Paavo; Nguyen, Thu-Trang; Clénet, Stephane COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 624-636 : ill <http://dx.doi.org/10.1108/COMPEL-10-2014-0271>

Valimik elektrimasinatealaseid jooniseid = Набор рисунков по электрическим машинам

1988 https://www.ester.ee/record=b1061851*est

Valimik elektrimasinatealaseid jooniseid

1992 https://www.ester.ee/record=b1061851*est

Vibration as fault indicator in electrical machines

Farzam Far, Mehrmaz; **Belahcen, Anouar**; Arkkio, Antero; Roivainen, Janne Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015 2015 / p. 120-125 : ill

Üheankruga voolumuutja

Elektrik 1936 / lk. 159-162 : joon

Üheankrumuundaja

Voot, E. Tehnika Kõigile 1940 / lk. 88-89 : joon., fot

Ühefaasiline mootor põllumajanduses

Tehnika Kõigile 1939 / lk. 84 : fot

Ülevaade viimaste aastate saavutustest dünamomasinate ehituse alal

Eesti Tehnika Seltsi Ajakiri 1922 / 3, lk. 46-48; 4/5, lk. 54-58

Влияние пустот внутри ферромагнитных частиц и искажения пространственной ориентации чешуек на свойства магнитодиелектриков и магнитопроводов электрических машин

Varik, Lembit-Heino; Laansoo, Ants; Ritso, Aadu; Roninson, Aleksander; Samolevski, Georg; Siimar, Rein Исследование электромагнитных и электромашиных устройств управления и контроля специального назначения 1980 / с. 3-12 : илл https://www.ester.ee/record=b1312090*est <https://digikogu.taltech.ee/et/Item/e708f6e5-a186-4ef0-893e-d61558782a2b>

Главные индуктивности электрической машины с разомкнутым магнитопроводом

Jänes, Hans Исследование и проектирование индукционных насосов для транспорта жидких металлов : сборник трудов. 1 1962 / с. 63-84 : илл https://www.ester.ee/record=b2100656*est <https://digikogu.taltech.ee/et/Item/b0ebc529-0556-472c-9f71-a6a62666fb1e>

Задания к лабораторным работам по курсу "Электрические машины"

1970 https://www.ester.ee/record=b2318155*est

Задания к лабораторным работам по курсу "Электрические машины"

1972 https://www.ester.ee/record=b1399034*est

Задания к лабораторным работам по курсу "Электрические машины" : для студентов специальности "Автоматика и телемеханика"

1965 https://www.ester.ee/record=b1379225*est

Индуктивное сопротивление рассеяния лобовых частей обмотки "явнополюсного" индукционного вращателя
Vallaste, Eino Исследование и проектирование электромагнитных средств перемещения жидких металлов : сборник трудов. 15 1978 / с. 33-46 : илл https://www.ester.ee/record=b1409159*est <https://digikogu.taltech.ee/et/Item/132475a4-e587-47b8-a1c6-9179a1c1761b>

Инженерная методика расчета управляемого реактора
Reiner, Ardi; Tellinen, Juhan; Järvik, Jaan Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения 1978 / с. 31-43 : илл https://www.ester.ee/record=b1346523*est <https://digikogu.taltech.ee/et/Item/a244ed16-2990-4904-9ca3-15c6823a6050>

Исследование электрических машин и электромагнитных устройств специального назначения
1983 https://www.ester.ee/record=b1271915*est <https://digikogu.taltech.ee/et/Item/d1676714-579b-4ec9-949f-401ab84c5a70>

Исследование электромагнитных и электромашинных устройств специального назначения
1981 https://www.ester.ee/record=b1319107*est <https://digikogu.taltech.ee/et/Item/69f32682-c927-437b-9d88-f03d45fbfd06>

Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения
1978 https://www.ester.ee/record=b1522065*est <https://digikogu.taltech.ee/et/Item/5d93e987-0288-4835-b06f-b5525aea2c1b>

Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения
1978 https://www.ester.ee/record=b1346523*est <https://digikogu.taltech.ee/et/Item/a244ed16-2990-4904-9ca3-15c6823a6050>

Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения
1980 https://www.ester.ee/record=b1312090*est <https://digikogu.taltech.ee/et/Item/e708f6e5-a186-4ef0-893e-d61558782a2b>

Комбинированный расчет главных индуктивностей электрической машины с разомкнутым магнитопроводом
Jänes, Hans; Kont, Alar XX научная конференция, посвященная 25-летию Эстонской ССР 18-22 мая 1965 г. : тезисы и резюме 1965 / с. 75 https://www.ester.ee/record=b1359832*est

Комбинированный расчет главных индуктивностей электрической машины с разомкнутым магнитопроводом
Jänes, Hans; Kont, Alar Исследование и проектирование электромагнитных средств перемещения жидких металлов : сборник трудов. 2 1964 / с. 23-36 : илл https://www.ester.ee/record=b2100528*est <https://digikogu.taltech.ee/et/Item/882f07f6-3851-473d-b12b-e7af7990706d>

Концентрация и специализация капитального ремонта электродвигателей в Эстонской ССР
Rajangu, Väino Проблемы совершенствования управления народным хозяйством и повышения эффективности общественного производства : тезисы докладов второй научной конференции молодых ученых Прибалтийских республик 1975 / с. 61-63 https://www.ester.ee/record=b3545610*est

Концентрировать ремонт электродвигателей предприятий Эстонской ССР
Rajangu, Väino Промышленная энергетика : ежемесячный производственно-технический журнал 1975 / с. 34 https://www.ester.ee/record=b2151157*est

Магнитомягкие композиционные материалы для электрических машин малой мощности
Ritso, Aadu; Siimar, Rein Тезисы докладов IV Всесоюзной научно-технической конференции "Новые технологические процессы и оборудование для производства электрических машин малой мощности" (г. Тбилиси, 3-5 октября 1979 г.) 1980 / с. 53-54

Маломощный управляемый реактор в фазосдвигающем устройстве тиристорного преобразователя
Mihhalski, R.; Reiner, Ardi; Lahtmets, Rain; Järvik, Jaan Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения 1978 / с. 57-64 : илл https://www.ester.ee/record=b1346523*est <https://digikogu.taltech.ee/et/Item/a244ed16-2990-4904-9ca3-15c6823a6050>

Модернизация машины для испытаний на изнашивание типа "МИ" и методика испытания
Jansikene, I.; Mosberg, Rudolf X студенческая научно-техническая конференция высших учебных заведений Прибалтики, Белорусской ССР и Калининградской области : аннотации научных работ 1964 / с. 39 https://www.ester.ee/record=b1749611*est <http://www.digar.ee/id/nlib-digar:376945>

Некоторые общие вопросы методологии определения индуктивностей рассеяния электрических машин и их применение к асинхронным и синхронным машинам; Намагничивающие силы трехфазных дробных обмоток
Voldek, Aleksander Труды Ленинградского политехнического института 1960 / с. 241-253; 254-280: ил

Несимметрия фаз и роль составляющих обратной и нулевой последовательностей в электрической машине с

разомкнутым магнитопроводом

Jänes, Hans; Kont, Alar Исследование и проектирование электромагнитных средств перемещения жидких металлов : сборник трудов. 2 1964 / с. 37-41 https://www.ester.ee/record=b2100528*est <https://digikogu.taltech.ee/et/Item/882f07f6-3851-473d-b12b-e7af7990706d>

Новые магнитомягкие материалы для производства статоров и роторов электродвигателей переменного тока
Laansoo, Andres; Ritso, Aadu; Siimar, Rein; Liimann, Väino Обмен производственно-техническим опытом 1987 / с. 12-18

Новый материал позволяющий изготовить сердечники электрических машин с минимальным расходом железа
Ritso, Aadu; Bussel, Oleg; Siimar, Rein Прогрессивные методы порошковой металлургии в машиностроении : Тезисы докладов III уральской зональной научно-технической конференции 1980 / с. 77-78

О возможностях использования магнитодиэлектриков в магнитопроводах электрических микромашин
Varik, Lembit-Heino; Laansoo, Andres; Masing, Juhan; Pakkas, Loit; Ritso, Aadu; Samolevski, Georg Электромеханика. 5 1974 / с. 11-26 : илл https://www.ester.ee/record=b2190666*est <https://digikogu.taltech.ee/et/Item/6827b5ca-030f-4eae-87e4-93c1fa0f4395>

О методике расчета тепловых переходных процессов линейных электрических машин
Risthein, Endel Расчет электромагнитных и тепловых режимов магнитогидродинамических и линейных электродвигателей 1980 / с. 71-77 : илл https://www.ester.ee/record=b1312133*est <https://digikogu.taltech.ee/et/Item/33f00334-bea3-4517-ba38-040675579736>

О параметрах мостовой схемы температурной стабилизации электромашинного усилителя с поперечным полем
Samolevski, Georg Труды по электротехнике и автоматике : сборник статей. 5 1967 / с. 103-113 : илл https://www.ester.ee/record=b2182187*est <https://digikogu.taltech.ee/et/Item/a4d66fdf-69d6-487a-a6ee-1fce266f2ad>

О применении графов в теории электрических машин
Mežburd, Volf Известия высших учебных заведений. Электромеханика : учебно-образовательный и научно-технический журнал 1970 / с. 851-856 https://www.ester.ee/record=b2144327*est

О применении магнитомягких композиционных материалов в качестве магнитопроводов электрических машин
Ritso, Aadu; Laansoo, Andres; Siimar, Rein; Drozdov, A. Тезисы докладов VI Всесоюзной научно-технической конференции "Новые технологические процессы и оборудование для производства электрических машин малой мощности" : (г. Тбилиси, 1-4 июня 1983 г.) 1983 / с. 69-70 https://www.ester.ee/record=b2190535*est

О распределении магнитного поля в воздушном зазоре торцевой электрической машины переменного тока
Samolevski, Georg; Vares, N. Электромеханика. 1 1968 / с. 51-57 : илл https://www.ester.ee/record=b2182216*est <https://digikogu.taltech.ee/et/Item/6cdeb2b6d-add8-4272-9651-f23d80461d68>

Обзор низкоскоростных генераторов с постоянными магнитами для ветряных установок
Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Savrajev, Igor Вестник Псковского государственного университета. Технические науки 2016 / с. 58-68

Оптимизация управляемого реактора
Tellinen, Juhan; Järvik, Jaan Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения 1978 / с. 45-56 : илл https://www.ester.ee/record=b1346523*est <https://digikogu.taltech.ee/et/Item/a244ed16-2990-4904-9ca3-15c6823a6050>

Повышение быстродействия регулирования и защита амплитудно-регулируемых ферромагнитных устройств
Kala, Ülo Проектирование и расчет электромагнитных устройств специального назначения 1979 / с. 37-45 : илл https://www.ester.ee/record=b1271276*est <https://digikogu.taltech.ee/et/Item/76bd8713-dc87-4a4b-8822-f1733a47224a>

Порошковые магнитомягкие композиционные материалы для электромашиностроения : [монография]
Laansoo, Andres 1991 https://www.ester.ee/record=b1061777*est

Программа, методические указания и контрольные задания по курсу "Электрические машины" для студентов специальностей: "Электрические машины и аппараты", "Электрификация промышленных предприятий", "Электрические станции, сети и системы"
1972 https://www.ester.ee/record=b1331101*est

Программа, методические указания и контрольные задачи по курсу Электрические машины для студентов специальностей: "Электрические машины", "Электропривод и автоматизация промышленных установок", "Электрические станции", "Электрические системы и сети"
1982 https://www.ester.ee/record=b3533431*est

Проектирование и расчет электромагнитных устройств специального назначения
1979 https://www.ester.ee/record=b1271276*est <https://digikogu.taltech.ee/et/Item/76bd8713-dc87-4a4b-8822-f1733a47224a>

Распределение магнитного поля прямоугольной катушки

Vallaste, Eino; Jänes, Hans Исследование и проектирование электромагнитных средств перемещения жидких металлов : сборник трудов. 2 1964 / с. 79-89 : илл https://www.ester.ee/record=b2100528*est <https://digikogu.taltech.ee/et/Item/882f07f6-3851-473d-b12b-e7af7990706d>

Роторная машина типа МЗРЭ-7 для герметизации изделий эпоксидными компаундами

Sork, Eeve; Pilpak, E.; Velling, Ants Электротехническая промышленность. Технология электротехнического производства : реферативный научно-технический сборник 1981 / с. 1-3 https://www.ester.ee/record=b2895534*est

Способы создания тихоходных безредукторных микродвигателей

Vörk, Rein; Kaasik, Paul; Пухов, А.; Шакиров, М. Электрические машины и электропривод малой мощности 1966 / с. 53-63: ил https://www.ester.ee/record=b2730578*est

Температурная зависимость параметров электромашинного усилителя с продольным полем в динамическом режиме

Samolevski, Georg Электромеханика. 1 1968 / с. 41-49 https://www.ester.ee/record=b2182216*est <https://digikogu.taltech.ee/et/Item/6cdb2b6d-add8-4272-9651-f23d80461d68>

Универсальный следящий имитатор нагрузки постоянного тока

Agur, Ustus 1961 https://www.ester.ee/record=b1364831*est <https://digikogu.taltech.ee/et/Item/7d0cae03-9ef6-4774-8e4d-b7142bee6d54>

Цифровая модель магнитной цепи с вращающимся магнитным полем

Julegin, A.N.; Järvik, Jaan Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения 1978 / с. 17-31 : илл https://www.ester.ee/record=b1522065*est <https://digikogu.taltech.ee/et/Item/5d93e987-0288-4835-b06f-b5525aea2c1b>

Чешуйчатые магнитодиэлектрики для магнитопроводов электрических машин и аппаратов

Ritso, Aadu; Laansoo, Andres Исследование, разработка и внедрение магнитодиэлектриков в электропромышленности : Тезисы докладов на научно-технической конференции в г. Харькове. [21-22 ноября 1972 г.] 1972 / с. 19-20

Чешуйчатые магнитомягкие композиционные материалы для магнитопроводов электрических машин

Ritso, Aadu; Randmer, Uudus-Gerhard; Siimar, Rein Всесоюзная конференция по вопросам порошковой металлургии. Тезисы докладов XIV Всесоюзной конференции по порошковой металлургии (г. Ташкент, 1979 г.) 1979 / с. 183-184

Электрические машины : задачи для контрольных работ и методические указания

1972 https://www.ester.ee/record=b1336480*est

Электрические машины : методические указания по курсовому проектированию для специальностей: "Электрические машины и аппараты", "Электропривод и автоматизация промышленных установок", "Электрические станции", "Электрические системы и сети"

1975 https://www.ester.ee/record=b1326660*est

Электрические машины : программа и методические указания к лабораторным работам

1982 https://www.ester.ee/record=b1264716*est

Электрические машины : [учебник для втузов]

Voldek, Aleksander 1974 https://www.ester.ee/record=b1539619*est

Электрические машины : [учебник для энергетических и электротехнических вузов и факультетов]

Voldek, Aleksander 1966 https://www.ester.ee/record=b1539622*est

Электрические машины и электромагнитные устройства управления и контроля специального назначения

Mežburd, Volf Развитие научных исследований в области технических наук в Эстонской ССР : тезисы республиканской конференции, Таллин, 15-16 октября 1986 г. 1986 / с. 122-125 https://www.ester.ee/record=b1231513*est

Электрические машины. Введение в электромеханику. Машины постоянного тока и трансформаторы : [учебник для студентов вузов, обучающихся по направлению подготовки «Электротехника, электромеханика и электротехнологии» и «Электроэнергетика»]

Voldek, Aleksander; Popov, Viktor 2007 https://www.ester.ee/record=b2192799*est

Электрические машины. Машины переменного тока : [учебник для студентов высших учебных заведений]

Voldek, Aleksander; Popov, Viktor 2008 https://www.ester.ee/record=b2386045*est

Электромашинные и электромагнитные устройства автоматики : руководство к курсовому проектированию для студентов специальности 0606

Ross, Heino; Peterson, Jaak 1985 https://www.ester.ee/record=b1227198*est

Якоря микроэлектродвигателей постоянного тока, спрессованные из железного порошка

Ritso, Aadu; Laansoo, Andres Электротехническая промышленность. Электротехнические материалы : реферативный научно-технический сборник 1971 / с. 10-12 https://www.eester.ee/record=b2896291*est