

A simple modular active power electronic transformer

Roasto, Indrek; Strzelecki, Ryszard Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istanbul, Turkey, 01-04 June, 2014 2014 / p. 1976-1980 : ill

A SPICE model of transmission lines transformer (TLT). Part 1

Radu, Sergiu; Albulat, Mihai BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 2 1994 / p. 487-492: ill https://www.ester.ee/record=b2150914*est

A SPICE model of transmission lines transformer (TLT). Part 2

Radu, Sergiu; Albulat, Mihai BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 2 1994 / p. 493-498: ill https://www.ester.ee/record=b2150914*est

Active power electronic transformer based on modular building blocks

Roasto, Indrek; Romero-Cadaval, Enrique; Martins, Joao Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5922-5927 : ill <https://doi.org/10.1109/IECON.2013.6700106> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Analysis and design of asymmetric quad-active-bridge converter

Chub, Andrii; Costa, Levy; Liserre, Marco IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society : proceedings : China National Convention Center, Beijing, China, 29. October - 01. November, 2017 2017 / p. 5367-5372 : ill <https://doi.org/10.1109/IECON.2017.8216930>

Analysis of current doubler rectifier based high frequency isolation stage for intelligent transformer [Electronic resource]

Beldjajev, Viktor; Roasto, Indrek; Vinnikov, Dmitri CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 336-341 [CD-ROM]

Analysis of holdup time for DC grid-forming isolated active front-end converters

Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 <https://doi.org/10.1109/IECON49645.2022.9969075> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Analysis of new bidirectional DC-DC converter based on current doubler rectifier

Beldjajev, Viktor; Roasto, Indrek 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 234-237 : ill

Anisotropic and strain-dependent model of magnetostriction in electrical steel sheets

Belahcen, Anouar; Singh, Deepak; Rasilo, Paavo; Martin, Florian; Ghalamestani, Setareh Gorji; Vandevelde, Lieven IEEE transactions on magnetics 2015 / p. 200-204 : ill <https://doi.org/10.1109/TMAG.2014.2361681> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of transfer learning for instrument transformer condition monitoring

Asefi, Sajjad; Kilter, Jako; Akroud, Nabil; Hurtado, Aritz; Gilbert, Ian; Orue, Inaki 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 4 p <https://doi.org/10.1109/Diagnostika61830.2024.10693903>

Asünkroon mootori diagramm

192-? https://www.ester.ee/record=b1743429*est

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>

Bidirectional wide voltage range series-parallel resonant buck-boost DC-DC converter

Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 5 p <https://doi.org/10.1109/PEMC61721.2024.10726369>

Buck-boost resonant Z-source parital power converter

Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 3rd International Conference on Smart Grid and Renewable Energy (SGRE) 2022 / p. 1-6 <https://doi.org/10.1109/SGRE53517.2022.9774095>

Capacitor coupled voltage transformer defect identification in the presence of tap changer

Asefi, Sajjad; Leinakse, Madis; Kilter, Jako; Landsberg, Mart IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p <https://doi.org/10.1109/isgteurope56780.2023.10408138>

Capacitor coupled voltage transformer inaccuracy effect on circuit breaker operation

Asefi, Sajjad; Andreesen, Guido; Kilter, Jako; Landsberg, Mart 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p <https://doi.org/10.1109/EPE58302.2023.10149279>

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

CLFT : camera-LiDAR fusion transformer for semantic segmentation in autonomous driving

Gu, Junyi; Bellone, Mauro; Pivonka, Tomas; **Sell, Raivo** IEEE Transactions on Intelligent Vehicles 2024 / 12 p
<https://doi.org/10.1109/TIV.2024.3454971>

CLFT : camera-LiDAR fusion transformer for semantic segmentation in autonomous driving : preprint

Gu, Junyi; Bellone, Mauro; Pivonka, Tomas; Sell, Raivo arXiv.org 2024 / 12 p. : ill <https://doi.org/10.48550/arXiv.2404.17793>

Code development of a DSP-FPGA based control platform for power electronics applications

Minambres-Marcos, Victor; **Roasto, Indrek;** Szczepankowski, P.; Romero-Cadaval, Enrique; **Vinnikov, Dmitri;** Barrero-Gonzalez, Fermin 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2890-2895 : ill <https://doi.org/10.1109/ICIT.2015.7125524> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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>

Cycle-skipping technique based on sigma-delta modulation in series resonant DC transformer

Pittala, Lohith Kumar; **Chub, Andrii;** Sidorov, Vadim; **Khan, Salman;** Ricco, Mattia; Mandrioli, Riccardo 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p <http://ieeexplore.ieee.org/document/11144699>
<https://doi.org/10.1109/ICDCM63994.2025.11144699>

The DC transformer power electronic building block : powering next-generation converter design

Flores-Bahamonde, Freddy; Renaudineau, Hugues; **Chub, Andrii** IEEE industrial electronics magazine 2023 / p. 21-35
<https://doi.org/10.1109/MIE.2022.3147168> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

DC-ready flyback-based micro-converter

Afshari, Hossein; Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p
<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604344>

Design and development of the middle-frequency isolation transformer for the high-voltage DC/DC converter [Electronic resource]

Vinnikov, Dmitri; Lehtla, Tõnu; Strzelecki, Ryszard; **Galkin, Ilja** The 4th International Scientific Conference of The Military Technical College [Korby El-Kobbah, Cairo, Egypt] : 27-29 May 2008. Proceedings of the 6th ICEENG Conference : 27-29 May, 2008 2008 / p. EE045 [CD-ROM] https://iceeng.journals.ekb.eg/article_34344_6860ebd9ad2e69cac2e12bfef8d5546c.pdf

Design and evaluation of a base module of active power electronic transformer

Roasto, Indrek; Minambres-Marcos, Victor; Romero-Cadaval, Enrique; Strzelecki, Ryszard 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 384-389 : ill <http://dx.doi.org/10.1109/CPE.2015.7231106>

A detailed testing procedure of numerical differential protection relay for EHV auto transformer

Ehsan, Umer; Jawad, Muhammad; Javed, Umar; Zaidi, Khurram Shabih; Rehman, Ateeq Ur; **Rassölkin, Anton;** Althobaiti, Maha M.; Hamam, Habib; **Shafiq, Muhammad** Energies 2021 / art. 8447 <https://doi.org/10.3390/en14248447> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of core losses using an inverse modeling technique

Osemwinyen, Osaruyi; Hemeida, Ahmed; **Ghahfarokhi, Payam Shams; Belahcen, Anouar** IEEE Access 2022 / p. 29224-29232
<https://doi.org/10.1109/ACCESS.2022.3158365> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of leakage inductances of three-winding transformer for HF-PSA resonant circuit

Šklovski, Jevgeni; Janson, Kuno; Niilo, Helar 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. 113-116 : ill

Distribution transformer frequency response analysis : behavior of different statistical indices during inter-disk fault

Nurmanova, Venera; Sultanbek, Adilet; Bagheri, Mehdi; **Ahmadihangar, Roya** 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 6 p. : ill <https://doi.org/10.1109/EEEIC.2019.8783252>

Efficiency optimization of the high-power isolated DC/DC converters through THD and losses reduction in isolation transformers [Electronic resource]

Vinnikov, Dmitri; Bolgov, Viktor International Conference on Renewable Energies and Power Quality : ICREPQ'09 : Valencia, Spain, 15th to 17th April, 2009 / [7] p. : ill. [CD-ROM]
https://www.researchgate.net/publication/237808470_Efficiency_Optimization_of_the_High-Power_Isolated_DCDC_Converters_through_THD_and_Losses_Reduction_in_Isolation_Transformers

Elektrimasinad. 1

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

Elektrimasinad. 1

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

Forward-based DC-DC converter with eliminated leakage inductance problem

Matiushkin, Oleksandr; Husev, Oleksandr; Afshari, Hossein; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos IEEE transactions on industrial electronics 2025 / p. 1638-1648 <https://doi.org/10.1109/TIE.2024.3429626>

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=AfmBOoopOWsvE7PCg4afDRJAsSt-7MPjB1tipnsK8Yhta6i_tqjPvPr

High voltage pulse transformer for IOT modulators

Jalakas, Tanel; Janson, Kuno; Mölder, Heigo; Roasto, Indrek IET electric power applications 2020 / p. 2348-2354
<https://doi.org/10.1049/iet-epa.2019.0877> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An improved ZVS high step-up converter based on coupled inductor and built-in transformer

Nouri, Tohid; **Vosoughi Kurdkandi, Naser; Husev, Oleksandr** IEEE transactions on power electronics 2021 / p. 13802-13816 : ill
<https://doi.org/10.1109/TPEL.2021.3088092> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improvement of voltage transformers overvoltage problems in MV networks

Janson, Kuno; Järvik, Jaan; Kütt, Lauri; Soosalu, Ain 6th International Conference "2008 Power Quality and Supply Reliability" : August 27-29, 2008 : Pärnu, Estonia : conference proceedings 2008 / p. 247-250 : ill

Installed capacities of reactive components and transformer in line frequency resonant converters

Janson, Kuno; Järvik, Jaan; Vinnal, Toomas EPQU'01 : Electrical Power Quality and Utilisation : 6th International Conference : September 19-21, 2001, Cracow, Poland : proceedings 2001 / p. 445-449 : ill

Intelligent transformer : possibilities and challenges

Beldjajev, Viktor; Roasto, Indrek; Lehtla, Tõnu Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 95-100 : ill

Intelligentne trafo – nutikate elektrivõrkude tulevik

Beldjajev, Viktor Studioosus 2011 / lk. 32

Interlaboratory comparison of voltage transformer

Baraškova, Tatjana Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 11-14

Juhitav pöördväljatrafo

Kiive, R.; Reiner, Ardi XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 62 https://www.ester.ee/record=b2449987*est

Juhitava pöördväljatrafoga ventilaatori ajam

Kralla, T.; Reiner, Ardi XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 62 https://www.ester.ee/record=b2449987*est

Jõutrafod

Treufeldt, Ülo; Oidram, Rein 2009 https://www.ester.ee/record=b2466724*est

Jõutrafod

2009 https://www.ester.ee/record=b2466722*est

Jõutrafod

Treufeldt, Ülo; Metusala, Tiit; Oidram, Rein; Teemets, Raivo; Riit, Tarmo 2009 https://www.ester.ee/record=b2536960*est

Jõutrafod : täiendavad Euroopa nõuded. Osa 1-1, Üldosa. Üldnõuded = Power transformers : additional European requirements. Part 1-1, Common part. General requirements

2022 https://www.ester.ee/record=b5506204*est

Jõutrafod : täiendavad Euroopa nõuded. Osa 2-3, Keskmised jõutrafod. Tarvikud = Power transformers : additional European requirements. Part 2-3, Medium power transformer. Accessories

2023 https://www.ester.ee/record=b5644319*est

Jõutrafod [Võrguteavik] : täiendavad Euroopa nõuded. Osa 1-2, Energiatõhususe hindamine = Power transformers : additional European requirements. Part 1-2, Assessment of energy performance

2022 https://www.ester.ee/record=b5482820*est

Jõutrafod [Võrguteavik] : täiendavad Euroopa nõuded. Osa 2-1, Keskmised jõutrafod. Üldnõuded = Power transformers : additional European requirements. Part 2-1, Medium power transformer. General requirements

2022 https://www.ester.ee/record=b5485454*est

Jõutrafod [Võrguteavik] : täiendavad Euroopa nõuded. Osa 3-1, Suured jõutrafod. Üldnõuded = Power transformers : additional European requirements. Part 3-1, Large power transformer. General requirements

2022 https://www.ester.ee/record=b5487548*est

Jõutrafod [Võrguteavik] : täiendavad Euroopa nõuded. Osa 2-5, Keskmised jõutrafod. Ühefaasilised = Power transformers : additional European requirements. Part 2-5, Medium power transformer. Single phase

2021 https://www.ester.ee/record=b5464502*est

Jõutrafod. Osa 1, Üldist = Power transformers. Part 1, General (IEC 60076-1:2011)

2012 https://www.ester.ee/record=b2896170*est

Jõutrafod. Osa 7, Mineraalõlitäitega jõutrafode koormusjuhend [Võrguteavik] = Power transformers. Part 7, Loading guide for mineral-oil-immersed power transformers (IEC 60076-7:2018, identical)

2019 https://www.ester.ee/record=b5225852*est

Keskmised jõutrafod sagedusele 50 Hz seadme suurima lubatava kestevpingega mitte üle 36 kV. Osa 1, Üldnõuded [Võrguteavik] = Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV. Part 1, General requirements

2017 http://www.ester.ee/record=b4767645*est

Laboratoorse tööde juhendid õppeaines raadiosüsteemide elektriseadmed

1985 https://www.ester.ee/record=b1250272*est

Load adapting resonant converter as a transformer with smoothly variable ratio

Janson, Kuno; Järvik, Jaan; Vinnal, Toomas 43. Internationales Wissenschaftliches Kolloquium, 21.-24.09.1998. Band 4, Elektroenergiesysteme und elektrische Geräte, Diagnostik, Hochspannungstechnik und elektrische Isoliertechnik, Energiewandlung : Vortragsreihen 1998 / S. 657-662: III

Middle-frequency isolation transformer design issues for the high-voltage DC/DC converter

Vinnikov, Dmitri; Laugis, Juhan; Galkin, Ilja PESC 08 : 39th IEEE Annual Power Electronics Specialists Conference : Rhodes, Greece, 15-19 June 2008 : book of one page paper summaries 2008 / p. 304 : ill <https://ieeexplore.ieee.org/document/4592226>

Middle-frequency isolation transformer design issues for the high-voltage DC/DC converter

Vinnikov, Dmitri; Laugis, Juhan; Galkin, Ilja Proceedings of 2008 IEEE 39th Annual Power Electronics Specialists Conference : PESC 2008 : Rhodes, Greece, 15-19 June 2008 2008 / p. 1930-1936 <https://ieeexplore.ieee.org/document/4592226>

Model predictive control of a single-stage flying inductor based buck-boost grid-connected common-ground inverter

Rahimpour, Saeed; Matiushkin, Oleksandr; Kurdkandi, Naser Vosoughi; Najafzadeh, Mahdiyyeh; Husev, Oleksandr; Vinnikov, Dmitri 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1-6 <https://doi.org/10.1109/RTUCON53541.2021.9711711>

Modelling of wind energy-based microgrid system implementing MMC

Mishra, Sambeet; Palu, Ivo; Madichetty, Sreedhar; Suresh Kumar, L.V. International Journal of Energy Research 2016 / p. 952-962 <https://doi.org/10.1002/er.3490> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mõõtetrafod : kolme faasilised induktiivpingetrafod pingega Um kuni 52 kV = Instrument transformers : three-phase inductive voltage transformers having Um up to 52 kV

2010 https://www.ester.ee/record=b2623174*est

Mõõtetrafod. Osa 1, Voolutrafod = Instrument transformers. Part 1, Current transformers (IEC 60044-1:1996, modified)

2010 https://www.ester.ee/record=b2646205*est

Mõõtetrafod. Osa 3, Lisanõuded induktiivpingetrafodele = Instrument transformers. Part 3, Additional requirements for inductive voltage transformers (IEC 61869-3:2011)

2012 https://www.ester.ee/record=b2896163*est

Mõõtetrafod. Osa 4, Lisanõuded ühitatud trafodele [Võrguteavik] = Instrument transformers. Part 4, Additional requirements for combined transformers (IEC 61869-4:2013)

2015 http://www.ester.ee/record=b4502348*est

New practical approach to input current shaping in AC-DC power converters

Janson, Kuno; Bolgov, Viktor; Kütt, Lauri; Kallaste, Ants; Mölder, Heigo EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 8

https://www.researchgate.net/publication/241155011_New_Practical_Approach_to_Input_Current_Shaping_in_AC-DC_Power_Converters

New practical approach to input current shaping in AC-DC power converters [Electronic resource]

Janson, Kuno; Bolgov, Viktor; Kütt, Lauri; Kallaste, Ants; Mölder, Heigo EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 154-158 : ill. [CD-ROM]

https://www.researchgate.net/publication/241155011_New_Practical_Approach_to_Input_Current_Shaping_in_AC-DC_Power_Converters

A new six-level transformer-less grid-connected solar photovoltaic inverter with less leakage current

Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Mohammadsalehian, Shamim; Tarzamni, Hadi; Siwakoti, Yam P.;

Islam, Md. Rabiul; Muttaqi, Kashem M. IEEE Access 2022 / p. 63736 - 63753: ill <https://doi.org/10.1109/ACCESS.2022.3182240> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A new transformer-less single switch boost DC-DC converter with lower stress

Mashinchi Maheri, Hamed; Mohammadzadeh Shahir, Farzad; Babaei, Ebrahim 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), November 5-7, 2020 2020 / 6 p

http://www.conference.rtu.lv/qazcdeTGBmjURTUCON2020_paper_101Gq73sO95Kb30.pdf <https://doi.org/10.1109/RTUCON51174.2020.9316470>

Non-intrusive defects identification for the high voltage instrument transformers

Asefi, Sajjad; Kilter, Jako; Landsberg, Mart 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227493>

Raadiosüsteemide elektrotehnilised seadmed. 1. vihik : 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

Resonant converter as a transformer for varying the ratio between input and output currents

Janson, Kuno; Järvik, Jaan Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 4, p. 264-285

Resonant DC transformer for grid-interactive energy efficient buildings

Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Chub, Andrii; Rathore, Akshay Kumar; **Vinnikov, Dmitri** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p

<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604353>

Review and outlook of isolated capacitive coupling based converters

Pourjafar, Saeed; Husev, Oleksandr; Roncero-Clemente, Carlos 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p. <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604421>

Review of high voltage instrument transformer condition monitoring

Asefi, Sajjad; Asad, Bilal; Leinakse, Madis; Manninen, Henri; Kilter, Jako; Vaimann, Toomas; Kallaste, Ants; Tealane, Marko; Landsberg, Mart IEEE Transactions on Dielectrics and Electrical Insulation 2024 / 12 p <https://doi.org/10.1109/TDEI.2024.3422260>

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](#)

Series-parallel resonant current-source DC-DC converter with wide output voltage range

Blinov, Andrei; Carvalho da Silva, Edivan Laercio; Verbytskyi, Ievgen; Vinnikov, Dmitri 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604346>

Simulation and analysis of transformer winding inter-disk and inter-turn faults for online diagnosis

Nurmanova, Venera; **Ahmadihangar, Roya;** Aliakhmet, Kamilla; Naderi, Mohammad Salay 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)

Single-phase power electronics transformer with active functions for smart grid

Minambres-Marcos, Victor; **Roasto, Indrek**; Romero-Cadaval, Enrique; Strzelecki, Ryszard; Barrero-Gonzalez, Fermin 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 528-533 : ill <http://dx.doi.org/10.1109/CPE.2015.7231131>

Single-switch galvanically isolated quasi-Z-source DC-DC converter

Chub, Andrii; Vinnikov, Dmitri 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 582-586 : ill <http://dx.doi.org/10.1109/PowerEng.2015.7266381>

Some design consideration for the 6.5 Kv IGBT-based half-bridge DC/DC converter

Vinnikov, Dmitri The Brazilian journal of power electronics = Revista electronica de potencia 2008 / 2, p. 55-60
<https://sobraep.org.br/artigo/some-design-considerations-for-the-6-5-kv-igbt-based-half-bridge-dc-dc-converter/>

Some design considerations for the 6.5 kV IGBT-based half-bridge DC/DC converter

Vinnikov, Dmitri 9th Brazilian Power Electronics Conference : COBEP2007 : Blumenau, Brasil : book of abstracts 2007 / p. 966-971
<https://sobraep.org.br/artigo/some-design-considerations-for-the-6-5-kv-igbt-based-half-bridge-dc-dc-converter/>

State of the art trends and design challenges of power electronic transformer for future distribution grids

Beldjajev, Viktor; Roasto, Indrek Технічна електродинаміка : тематичний випуск : силова електроніка та енергоефективність 2012 / p. 55-61 : ill

Study of failures with 10kv and 35kv voltage transformers

Janson, Kuno; Järvik, Jaan; Kalda, Heljut; Šklovski, Jevgeni The 3rd International Conference Electric Power Quality and Supply Reliability, September 4...6, 2002, Haapsalu, Estonia : proceedings 2002 / p. 133-138 : ill

Study of the effects of single phase ground faults to the voltage transformers in the 10 kV medium voltage power networks

Janson, Kuno; Järvik, Jaan; Külm, Evald; Kütt, Lauri; Šklovski, Jevgeni 48. Internationales Wissenschaftliches Kolloquium, 22.-25.09.2003, Technische Universität Ilmenau, Germany 2003 / p. 583-584 : ill

Study of the effects of single phase ground faults to the voltage transformers in the 10 kV medium voltage power networks [Electronic resource]

Janson, Kuno; Järvik, Jaan; Külm, Evald; Kütt, Lauri; Šklovski, Jevgeni 48. Internationales Wissenschaftliches Kolloquium, 22.-25.09.2003, Technische Universität Ilmenau, Germany : proceedings and our portrait 2003 / [10] p. : ill. [CD-ROM]

Study of transformer overvoltages under single-phase earth faults in 6...35 kV networks with insulated neutral point [Electronic resource]

Janson, Kuno; Järvik, Jaan; Kalda, Heljut; Külm, Evald; Šklovski, Jevgeni Electric Power Engineering 2003 : 5th International Scientific Conference : January 28-29, 2003, Beskydy Pension, Visalaje, Czech Republic : held by occasion of 25th Anniversary of Department of Electrical 2003 / [17] p. : ill. [CD-ROM]

Zarebnia, M.; Parvaz, R. Image encryption algorithm by fractional based chaotic system and framelet transform

Henno, Jaak zbMATH Open 2022 / 1 p. <https://zbmath.org/07577308>

The application of partial discharge monitoring system for instrument transformers: special issues

Khalyasmaa, Alexandra I.; Stepanova, Alina; Eroshenko, Stanislav A.; **Bolgov, Viktor**; Chung, Tran Chung 2020 21-st International Symposium on Electrical Apparatus and Technologies (SIELA), 3-6 June 2020, Bourgas, Bulgaria : proceedings 2020 / 4 p
<https://doi.org/10.1109/SIELA49118.2020.9167108>

The methodology of high-voltage instrument transformers technical state index assessment

Khalyasmaa, Alexandra I.; Vinter, Iakov; Eroshenko, Stanislav A.; **Bolgov, Viktor** 2020 21-st International Symposium on Electrical Apparatus and Technologies (SIELA), 3-6 June 2020, Bourgas, Bulgaria : proceedings 2020 / 4 p
<https://doi.org/10.1109/SIELA49118.2020.9167110>

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

Imeline Teadus 2014 / lk. 101

Transformerless boost AC/DC converter with the front-end active filter

Husev, Oleksandr 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 77-81 : ill

Wide output voltage range isolated buck-boost PFC converter with reconfigurable rectifier

Verbytskyi, Ievgen; Nadeem, Mohammad Mahad; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227389>

Wound core voltage transformers overvoltage problems caused by single phase faults in MV networks

Järvik, Jaan; Kalda, Heljut; Külm, Evald; Sepping, Eino; Choi, J. Международная научно-техническая конференция "Перенапряжения и надежность эксплуатации электрооборудования" : Санкт-Петербург, 31 марта - 05 апреля 2003 г. Выпуск 1 2003 / p. 324-332 : ill

Допустимая нагрузка масляных трансформаторов в условиях метростроения

Plaštšanski, L.A.; Belitski, Valeri Проблемы подземной и открытой разработки горючих сланцев и нерудных материалов 1978 / с. 61-65 https://www.ester.ee/record=b1381851*est <https://digikogu.taltech.ee/et/Item/119c7d89-76e6-4806-9a87-b150bda62410>

Зависимость пробивного напряжения фреона 113 от температуры

Metusala, Tiit Энергетические системы : сборник статей. 3 1969 / с. 71-77 : илл https://www.ester.ee/record=b2183089*est <https://digikogu.taltech.ee/et/Item/5c34d1a9-5ba8-40b8-81f9-efa3dc9c672a/>

Исследование изоляции трансформаторов с испарительным охлаждением

Metusala, Tiit; Meresmaa, Rein; Spirka, V. Электротехническая промышленность. Электротехнические материалы : реферативный научно-технический сборник 1972 / с. 5-6 https://www.ester.ee/record=b2896291*est

Коррозия конструкционных материалов трансформатора испарительным охлаждением

Kallast, Vambola; Pajuste, O. Тезисы Межвузовской конференции по коррозии и защите металлов 1971 / с. 41 https://www.ester.ee/record=b1409081*est

Лабораторные работы по электрическим устройствам радиосистем

1985 https://www.ester.ee/record=b1255615*est

Машинный расчет автотрансформатора для дарсонвализации

Gurjanov, Boriss Проблемы моделирования и измерения в электронике 1986 / с. 57-62

Модели и характеристики многопроводного жгута

Jõers, Rein Анализ и моделирование технических устройств и систем АСУТП 1977 / с. 77-88 : илл https://www.ester.ee/record=b2190987*est <https://digikogu.taltech.ee/et/Item/b7c66054-0b4f-4684-9453-442bc7e6e200>

Начальное напряжение частичных разрядов в фреоне 113

Grossman, Otto; Metusala, Tiit; Tapupere, Olev Энергетические системы : сборник статей. 3 1969 / с. 79-84 : илл https://www.ester.ee/record=b2183089*est <https://digikogu.taltech.ee/et/Item/5c34d1a9-5ba8-40b8-81f9-efa3dc9c672a/>

Низкочастотные погрешности автотрансформаторных делителей напряжения

Jõers, Rein Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 73-80 : илл https://www.ester.ee/record=b1264145*est <https://digikogu.taltech.ee/et/Item/81bf2178-a9f8-417d-86c7-2000cca6a01e>

О критериях целесообразности применения передвижных трансформаторных подстанций на сланцевых шахтах Эстонии

Lauringson, Veljo; Valtin, Juhan Проблемы подземной и открытой разработки горючих сланцев и нерудных материалов 1978 / с. 53-60 : илл https://www.ester.ee/record=b1381851*est <https://digikogu.taltech.ee/et/Item/119c7d89-76e6-4806-9a87-b150bda62410>

О реализации идеальных трансформаторов в виде +- R-цепей

Männamaa, Vello Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 62 https://www.ester.ee/record=b1322122*est

О точности измерения параметров жгутового трансформатора

Jõers, Rein Труды по электротехнике и автоматике : сборник статей. 14 1976 / с. 55-61 https://www.ester.ee/record=b2190768*est <https://digikogu.taltech.ee/et/Item/aa35e320-87b1-405b-9cac-3b90c51867d1>

Об определении оптимальных законов регулирования напряжения центра питания и реактивной мощности в распределительной сети

Seier, Gustav Проблемы оптимизации в электроэнергетике : тезисы II республиканской конференции ЭССР : [Таллин 26-27 ноября 1974 года] 1974 / с. 78-79 https://www.ester.ee/record=b1346480*est

Общий анализ передач точного трансформатора со жгутовой обмоткой

Jõers, Rein; Ross, Heino Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 99-118 : илл https://www.ester.ee/record=b2190710*est <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

Определение оптимальных ответвлений распределительных трансформаторов

Sirkel, Rein; Tiigimägi, Eeli Проблемы оптимизации в электроэнергетике : тезисы II республиканской конференции ЭССР : [Таллин 26-27 ноября 1974 года] 1974 / с. 76-78 https://www.ester.ee/record=b1346480*est

Расчет трансформатора с неоднородной паутовой обмоткой

Jõers, Rein Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 78 https://www.ester.ee/record=b1322122*est

Расчет трансформатора со жгутовой обмоткой I

Jõers, Rein; Ross, Heino Труды по электротехнике и автоматике : сборник статей. 12 1974 / с. 33-39 : илл https://www.ester.ee/record=b2190668*est <https://digikogu.taltech.ee/et/Item/57b94a1f-6879-4443-b6f2-322fd7e53d89>

Расчет трансформатора со жгутовой обмоткой II

Jõers, Rein; Ross, Heino Труды по электротехнике и автоматике : сборник статей. 12 1974 / с. 41-50 : илл https://www.ester.ee/record=b2190668*est <https://digikogu.taltech.ee/et/Item/57b94a1f-6879-4443-b6f2-322fd7e53d89>

Технико-экономические возможности применения МММ в трансформаторах и коллекторных микродвигателях

Laansoo, Andres; Ritso, Aadu; Siimar, Rein; Liimann, Väino VIII всесоюзная научно-техническая конференция "Новые технологические процессы и оборудование для производства электрических машин малой мощности" (г. Тбилиси, 1-3 октября 1987 г.) : Тезисы докладов 1987 / с. 31-32

Трансформатор. Авторское свидетельство SU 1 410 116 A1

Laansoo, Andres; Panin, J.; Siimar, Rein; Izõšev, V.; Masas, S.; Ritso, Aadu; Liimann, Väino Открытия, изобретения 1988 / с. ? <https://patenton.ru/patent/SU1410116A1>

Трансформатор РПН с обслуживающим тиристорным переключателем ответвлений

Vinnal, Toomas; Tõnuri, I.; Järvik, Jaan Исследование электрических машин и электромагнитных устройств специального назначения 1983 / с. 49-58 : ил https://www.ester.ee/record=b1271915*est <https://digikogu.taltech.ee/et/Item/d1676714-579b-4ec9-949f-401ab84c5a70>

Трансформатор РПН с тиристорным переключением ответвлений

Vinnal, Toomas; Tõnuri, I.; Järvik, Jaan Новая техника в электроснабжении промышленных предприятий : материалы конференции 1983 / с. 44-48

Трансформатор тока для полупроводниковых схем

Reiner, Ardi; Sepping, Eino; Kala, Ülo Проектирование и расчет электромагнитных устройств специального назначения 1979 / с. 47-57 : илл https://www.ester.ee/record=b1271276*est <https://digikogu.taltech.ee/et/Item/76bd8713-dc87-4a4b-8822-f1733a47224a>

Трансформаторный эффект в МГД-измерительных преобразователях расхода (МГДПР). Часть II

Mežburd, Volf Исследование электрических машин и электромагнитных устройств специального назначения 1983 / с. 19-26 : ил https://www.ester.ee/record=b1271915*est <https://digikogu.taltech.ee/et/Item/d1676714-579b-4ec9-949f-401ab84c5a70>

Трехфазный импульсный регулятор напряжения с межфазным трансформатором

Nurste, Ivar; Sarv, Vello; Sui, R. Тезисы докладов XXXI студенческой научно-технической конференции 1980 / с. 58-59 https://www.ester.ee/record=b1319482*est

Шумовые свойства активного трансформатора

Ratassepp, Jaak Теоретические основы методов и приборов измерения параметров слабых сигналов 1977 / с. 31-34 : илл https://www.ester.ee/record=b1310662*est <https://digikogu.taltech.ee/et/Item/7121b5da-f4d1-474c-af67-2e0600ba0e11>

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