

### **A simple modular active power electronic transformer**

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

Radu, Sergiu; Albul, 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](https://www.ester.ee/record=b2150914*est)

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Radu, Sergiu; Albul, 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](https://www.ester.ee/record=b2150914*est)

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**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](#)

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**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]

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**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](#)

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**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](#)

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**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>

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**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>

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**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>

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**Gu, Junyi; Bellone, Mauro;** Pivonka, Tomas; **Sell, Raivo** IEEE Transactions on Intelligent Vehicles 2024 / 12 p  
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### **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>

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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](#)

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**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>

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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>  
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### **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](https://iceeng.journals.ekb.eg/article_34344_6860ebd9ad2e69cac2e12bfef8d5546c.pdf)

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**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>

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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](#)

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<https://doi.org/10.1109/ACCESS.2022.3158365> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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### **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 2009 / [7] p. : ill. [CD-ROM]  
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**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=AfmBOopOWsvE7PCg4afDRJAsSt-7MPjB1tipsK8Yhta6i\\_tqjiPvPr](https://www.routledge.com/Fundamentals-of-Electrical-Machines/Kallaste-Vaimann-Rassolkin-Janson/p/book/9781032518206?srsltid=AfmBOopOWsvE7PCg4afDRJAsSt-7MPjB1tipsK8Yhta6i_tqjiPvPr)

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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>

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**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>

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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](#)

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2012 [https://www.ester.ee/record=b2896163\\*est](https://www.ester.ee/record=b2896163*est)

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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

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### **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]

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

Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Mohammad-salehian, 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

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### **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>

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