

An improved high-voltage IGBT-based half-bridge converter for railway applications

Vinnikov, Dmitri; Laugis, Juhan Fourth International Conference and Exhibition on Ecological Vehicles & Renewable Energies : March 26-29, 2009, Monaco : one-page abstract proceeding 2009 / [1] p

An interleaved ZVS high step-up converter for renewable energy systems applications

Nouri, Tohid; Branch, Sari; Shانه, Mahdi; Benbouzid, Mohamed; **Vosoughi Kurdkandi, Naser** IEEE Transactions on Industrial Electronics 2022 / p. 4786-4800 <https://doi.org/10.1109/TIE.2021.3080211> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis of switching properties of different high voltage IGBTs operating under hard-switching conditions

Blinov, Andrei; Jalakas, Tanel; Vinnikov, Dmitri; Laugis, Juhan BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 323-326 : ill

Cell-level power supply for high-voltage modular multilevel converters [Electronic resource]

Blinov, Andrei; Norrga, Staffan; Tibola, Gabriel; Velotto, Giovanni 19th European Conference on Power Electronics and Application : EPE'17 ECCE Europe : September 11-14, 2017, Warsaw, Poland 2017 / p. P1-P10 : ill. [USB] <https://doi.org/10.23919/EPE17ECCEEurope.2017.8099361>

Comparison of control methods for high-voltage high-power three-level half-bridge DC/DC converters [Electronic resource]

Roasto, Indrek; Vinnikov, Dmitri; Galkin, Ilya 6th International Conference-Workshop Compatibility and Power Electronics : May 20-22, 2009 : CPE 2009 : conference proceedings 2009 / p. 258-264 : ill. [CD-ROM] https://www.researchgate.net/publication/241160163_Comparison_of_control_methods_for_high-voltage_high-power_three-level_half-bridge_DCDC_converters

Comparison of GaAs based high voltage diode stacks

Voitovitš, Viktor; Kuznetsova, Natalja; **Rang, Toomas; Pikkov, Mihhail;** Ruut, Jana EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol. 2 of 7, Devices, control of converters, measurements and sensors 2004 / p. 2-391 - 2-394 : ill

Degradation of 600-V 4H-SiC Schottky diodes under irradiation with 0.9 MeV electrons

Lebedev, Alexander A.; Davidovskaja, Klavdia; Kozlovski, Vitali V.; **Korolkov, Oleg; Sleptšuk, Natalja; Toompuu, Jana** Silicon Carbide and Related Materials 2016 : selected, peer reviewed papers from the 11th European Conference on Silicon Carbide and Related Materials 2016 (ECSCRM 2016), September 25-29, 2016, Halkidiki, Greece 2017 / p. 447-450 : ill <https://doi.org/10.4028/www.scientific.net/MSF.897.447> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Design issues of redundant protection and supervision system for the special purpose power converters [Electronic resource]

Vinnikov, Dmitri; Roasto, Indrek; Vodovozov, Valery International Conference on Renewable Energies and Power Quality : ICREPQ'09 : Valencia, Spain, 15th to 17th April 2009 2009 / [6] p. [CD-ROM] <https://www.icrepq.com/ICREPQ%2709/356-vinnikov.pdf>

Diagnostics analysis of partial discharge events of the power cables at various voltage levels using ramping behavior analysis method

Mishra, Sambeet; **Singh, Praveen Prakash; Kiitam, Ivar; Shafiq, Muhammad; Palu, Ivo;** Bordin, Chiara Electric power systems research 2024 / art. 109988 <https://doi.org/10.1016/j.eprsr.2023.109988> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fault detection and protection system for the power converters with high-voltage IGBTs [Electronic resource]

Vinnikov, Dmitri; Roasto, Indrek; Lehtla, Tõnu ICECS 2008 : The 15th IEEE International Conference on Electronics, Circuits and Systems : August 31 - September 3, 2008, Malta 2008 / p. 922-925 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4675005>

Feasibility study of half- and full-bridge isolated DC/DC converters in high-voltage high-power applications

Vinnikov, Dmitri; Jalakas, Tanel; Egorov, Mikhail EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 49 <https://ieeexplore.ieee.org/document/4635441/similar#similar>

Feasibility study of half- and full-bridge isolated DC/DC converters in high-voltage high-power applications [Electronic resource]

Vinnikov, Dmitri; Jalakas, Tanel; Egorov, Mikhail EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 1271-1277 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4635441/similar#similar>

High voltage circuit breaker health index Evaluation considering measurement accuracy

Asefi, Sajjad; Kilter, Jako; Shayesteh, Ebrahim; Hilber, Patrik; Lindquist, Tommie IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863019>

High-voltage half-bridge IGBT inverter [Electronic resource]

Vinnikov, Dmitri; Laugis, Juhan Proceedings of 16th International Conference on Electrical Drives and Power Electronics EDPE'2007 : The High Tatras (Slovakia), 24-26 September, 2007 2007 / [6] p. [CD-ROM]

High-voltage IGBT based converters for rolling stock : possibilities and challenges

Roasto, Indrek; Jalakas, Tanel; Vinnikov, Dmitri 2011 <https://www.amazon.com/HIGH-VOLTAGE-BASED-CONVERTERS-ROLLING-STOCK/dp/3843391211>

High-voltage switch realization possibilities for the 3.0 kV DC fed voltage converters

Vinnikov, Dmitri ELECO'2007 : 5th International Conference on Electrical and Electronics Engineering : 5-9 December 2007, Bursa, Turkey 2007 / ? p

Implementation of high-voltage IGBTs in power electronic converters for the rolling stock

Vinnikov, Dmitri; Laugis, Juhan; Frolov, S.; Matvejev, J. Технічна електродинаміка 2007 / 4, p. 109-114 : ill

Incorporating service type in aging failure model of high voltage circuit breaker

Asefi, Sajjad; Kilter, Jako; Landsberg, Mart 2023 27th International Conference Electronics : proceedings 2023 / 5 p
<https://doi.org/10.1109/IEEECONF58372.2023.10177602>

Kõrgepinge katsetehnika

Oidram, Rein; Metusala, Tiit 2009 https://www.ester.ee/record=b2466686*est

Kõrgepinge katsetehnika. Osa 1, Üldised määratlused ja katsenõuded = High-voltage test techniques. Part 1, General definitions and test requirements (IEC 60060-1:2010)

2013 https://www.ester.ee/record=b2931355*est

Kõrgepingetehnika : laboratoorsete tööde juhendid

1975 https://www.ester.ee/record=b1311170*est

Measurement and operation based condition monitoring methodology for high voltage circuit breakers

Asefi, Sajjad; Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Kalmet, Tauri; Manninen, Henri; Landsberg, Mart 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : proceedings 2022 / Art. 184786
<https://doi.org/10.1109/ISGT-Europe54678.2022.9960521>

A new coupled-inductor-based buck/boost DC/DC converter with soft switching for DC microgrid applications

Maheri, Hamed Mashinchi; Heris, Pedram Chavoshpour; Saadatizadeh, Zahra; Babaei, Ebrahim; Vinnikov, Dmitri IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2021 / p. 1-6
<https://doi.org/10.1109/CPE-POWERENG50821.2021.9501195>

Pinged ja õhkvaheemikud kõrgepingepaigaldiste standardis EVS-HD 637 S1:2002

Oidram, Rein Elektriala 2002 / 6, lk. 24-25

Research and development of digital control systems and algorithms for high power, high voltage isolated DC/DC converters = Võimsate kõrgepingeliste alalisvoolumuundurite arvjuhtimissüsteemide ja -algoritmide uurimine ning väljatöötamine

Roasto, Indrek 2009 https://www.ester.ee/record=b2557768*est

Research and development of high-power high-voltage DC/DC converters = Võimsate kõrgepingeliste alalispingemuundurite uurimine ja välmimine

Jalakas, Tanel 2010 https://www.ester.ee/record=b2607120*est

Research of switching properties and performance improvement methods of high-voltage IGBT based DC/DC converters = Kõrgepingelistel IGBT transistoridel põhinevate alalispingemuundurite lülitusomaduste ja jõudluse suuredamise meetodite uurimine

Blinov, Andrei 2012 http://www.ester.ee/record=b2856034*est

A simplified peak current mode control algorithm for special purpose high voltage IGBT converters

Roasto, Indrek; Vinnikov, Dmitri; Lehtla, Tõnu; Auväärt, Aivar BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 305-308 : ill

Some design considerations for high-power high-voltage DC/DC converter with improved power density and efficiency

Vinnikov, Dmitri The Brazilian journal of power electronics = Revista eletronica de potencia 2009 / 4, p. 297-304
<https://sobrap.org.br/site/uploads/2018/06/rvol14no4p15.pdf>

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>

TTÜs väljatöötatud uudne kõrgepingeline abitoiteallikas

Roasto, Indrek Mente et Manu 2009 / 20. märts, lk. 2 : fot https://www.ester.ee/record=b1242496*est

Высоковольтные транзисторные усилители мощности

Ervin, V.; Plakk, Paul XX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР : тезисы докладов. Часть 1 1974 / с. 118 https://www.ester.ee/record=b1306141*est

Высоковольтный выходной усилитель

Vasser, R.; **Rüstern, Ennu** Тезисы докладов научно-технической конференции, посвященной Дню радио 1974 / с. 28
https://www.ester.ee/record=b1294751*est

Высоковольтный диод серии В9

Vaher, G.; Vergi, U.; Karuks, O.; Kuusik, E.; Krunk, O.; Tarma, M.; **Tarma, Mati** Применение эпитаксиальной технологии в производстве силовых полупроводниковых приборов : сборник материалов Всесоюзного научно-технического семинара. Часть 1 1978 / с. 5-12 : ил https://www.ester.ee/record=b1273235*est

Высоковольтный тиристорно-транзисторный коммутатор

Köverik, Kait; Rudski, V.A.; Togatov, V. Силовые полупроводниковые приборы : сборник статей 1986 / с. 232-235 : ил
https://www.ester.ee/record=b1591355*est

Измерение единичных импульсов тока частичного разряда в высоковольтной изоляции

Tarupere, Olev Энергетические системы : сборник статей. 4 1971 / с. 75-80 : илл https://www.ester.ee/record=b2190160*est
<https://digikogu.taltech.ee/et/Item/11b4e565-83af-4f6a-bb6c-5b365ff0252d>

Исследование фазы возникновения ВЧ разряда с острия

Veimer, Vladimir Труды по физике : сборник статей. 8 1976 / с. 15-26 : илл https://www.ester.ee/record=b2190766*est
<https://digikogu.taltech.ee/et/Item/023bba63-69e4-40f1-8c80-5c023bdbae0d>

Исследование электрической прочности перекрытия по поверхности твердых диэлектриков во фторсодержащих жидкостях

Illus, A.; **Metusala, Tiit**; Spirka, V. Энергетические системы. 6 1976 / с. 111-119 : илл https://www.ester.ee/record=b2190764*est
<https://digikogu.taltech.ee/et/Item/29c0dace-ec62-42eb-bb12-1eff5fe77294>

Исследования по технике высоких напряжений в Таллинском политехническом институте

Tarupere, Olev Развитие научных исследований в области технических наук в Эстонской ССР : тезисы республиканской конференции, Таллин, 15-16 октября 1986 г. 1986 / с. 169-172 https://www.ester.ee/record=b1231513*est

К вопросу о регистрации частичных разрядов в высоковольтной изоляции

Tarupere, Olev Энергетические системы : сборник статей. 2 1965 / с. 113-130 : илл https://www.ester.ee/record=b2181997*est
<https://digikogu.taltech.ee/et/Item/eec6a33-a1eb-4988-b989-2f0fd4d9a796>

О возможности улучшения прямой ВАХ высоковольтного диода

Vaher, G.; Krunk, O.; Kuusik, E.; Tarma, M.; **Tarma, Mati** Применение эпитаксиальной технологии в производстве силовых полупроводниковых приборов : сборник материалов Всесоюзного научно-технического семинара. Часть 1 1978 / с. 13-20 : ил
https://www.ester.ee/record=b1273235*est

Приближенная теория для расчета характеристик обратного восстановления высоковольтных диффузионных диодов в индуктивных цепях

Udal, Andres Силовые полупроводниковые приборы : сборник статей 1986 / с. 54-58 : ил https://www.ester.ee/record=b1591355*est

Расчет распределения плотностей токов в мощном высоковольтном транзисторе

Köverik, Kait; Rudski, V.A.; Šilov, A. Силовые полупроводниковые приборы : сборник статей 1986 / с. 227-231 : ил
https://www.ester.ee/record=b1591355*est

Результаты разработок тиристора серии Т13

Vergi, U.; Karuks, O.; Seleninov, K.; Stiner, M.; **Tarma, Mati** Применение эпитаксиальной технологии в производстве силовых полупроводниковых приборов : сборник материалов Всесоюзного научно-технического семинара. Часть 1 1978 / с. 31-38 : ил
https://www.ester.ee/record=b1273235*est

Техника высоких напряжений : руководство к лабораторным работам
1975 https://www.ester.ee/record=b1385783*est

Техника высоких напряжений : руководство к лабораторным работам
1974 https://www.ester.ee/record=b2465872*est