

Characterisation of 1200 V reverse-blocking IGBTs for naturally commutated HF-link inverter

Zinchenko, Denys; **Korkh, Oleksandr; Blinov, Andrei**; Waind, Peter; **Vinnikov, Dmitri** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 382-387 : ill
<https://doi.org/10.1109/UKRCON.2019.8879900>

Control system simulation of a 40kW half-bridge isolated DC/DC converter [Electronic resource]

Roasto, Indrek; Vinnikov, Dmitri EPE 2007 : 12th European Conference on Power Electronics and Applications : 2-5 September 2007, Aalborg, Denmark 2007 / [10] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4417224>

Development of auxiliary power supplies for the 3.0 kV DC rolling stock

Vinnikov, Dmitri; Laugis, Juhan; Jalakas, Tanel ISIE2007 : 2007 IEEE International Symposium on Industrial Electronics : June 4-7, 2007, Vigo, Spain : abstract book 2007 / p. 61 <https://ieeexplore.ieee.org/document/4374624>

Dynamic characteristic evaluation of a 600V reverse blocking IGBT device

Korkh, Oleksandr; Blinov, Andrei Advances in Information, Electronic and Electrical Engineering (AIEEE) : proceedings of the 5th IEEE Workshop, november 24-25, 2017, Riga, Latvia 2018 / p. 1-5 : ill <https://doi.org/10.1109/AIEEE.2017.8270527>

EMC considerations on PCB design for a high-power converter control system [Electronic resource]

Roasto, Indrek; Vinnikov, Dmitri; Klytta, Marius Proceedings of 5th International Conference 2007 : Compatibility in Power Electronics : 29 May - 1 June 2007, Gdynia, Poland 2007 / [4] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4296544>

Evaluation of different high-voltage switch solutions for high-power converters used in rolling stock [Electronic resource]

Vinnikov, Dmitri; Laugis, Juhan; Jalakas, Tanel ISIE08 : 2008 IEEE International Symposium on Industrial Electronics : 30 June - 2 July 2008, Cambridge, United Kingdom 2008 / p. 214-219 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4677124>

Evaluation of different loss calculation methods for high-voltage IGBT-s under small load conditions

Jalakas, Tanel; Vinnikov, Dmitri; Laugis, Juhan EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 50 <https://ieeexplore.ieee.org/document/4635442>

Evaluation of different loss calculation methods for high-voltage IGBT-s under small load conditions [Electronic resource]

Jalakas, Tanel; Vinnikov, Dmitri; Laugis, Juhan EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 1286-1290 : ill. [CD-ROM]
<https://ieeexplore.ieee.org/document/4635442>

Experimental verification of DC/DC converter with full-bridge active rectifier

Blinov, Andrei; Ivakhno, Volodymyr; Zamaruev, Vladimir; Vinnikov, Dmitri; Husev, Oleksandr IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5179-5184 : ill
<https://ieeexplore.ieee.org/document/6389549>

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 200 kW half-bridge and full-bridge DC/DC converters with 6.5 kV IGBTs

Vinnikov, Dmitri; Lehtla, Madis 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Speedam 2008 : Ischia (Italy), June 11th-13th, 2008 : conference proceedings 2008 / p. 1537-1541 : ill. [CD-ROM]
<https://ieeexplore.ieee.org/document/4581238>

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>

Hybrid IGBT-IGCT switch

Blinov, Andrei; Vinnikov, Dmitri; Ivakhno, Volodymyr; Zamaruev, Vladimir Przegląd elektrotechniczny = Electrical review 2012 / p. 12-15 : ill https://www.researchgate.net/publication/290550726_Hybrid_IGBT-IGCT_Switch

Interlock delay time and its influence on the operability and efficiency of high-power DC/DC converters

Vinnikov, Dmitri; Bolgov, Viktor Przegląd elektrotechniczny = Electrical review 2009 / 10, p. 222-227 : ill
https://www.researchgate.net/publication/291967052_Interlock_Delay_Time_and_its_Influence_on_the_Operability_and_Efficiency_of_High-

Interlock delay time minimization and its impact on the high-voltage half-bridge DC/DC converter

Jalakas, Tanel; Vinnikov, Dmitri; Lehtla, Tõnu; Bolgov, Viktor 6th International Conference-Workshop Compatibility and Power Electronics : May 20-22, 2009 : CPE 2009 : conference proceedings 2009 / p. 438-443 [CD-ROM]

Interlock delay time minimization and its impact on the high-voltage half-bridge DC/DC converter [Electronic resource]

Jalakas, Tanel; Vinnikov, Dmitri; Lehtla, Tõnu; Bolgov, Viktor 2009 Compatibility and Power Electronics CPE 2009 : 6th International Conference-Workshop 2009 / p. 438-443 : ill. [CD-ROM]

Inverters with reduced switching losses for industrial applications

Vodovozov, Valery; Egorov, Mikhail; Raud, Zoja; Lehtla, Tõnu Proceedings : INDIN 2011 : 2011 9th IEEE International Conference on Industrial Informatics : Lisbon, Portugal, 26-29 July, 2011 / p. 274-279 : ill
<https://ieeexplore.ieee.org/document/6034887>

Modeling of photon recycling in GaN-devices

Velmre, Enn; Udal, Andres; Klopov, Mihhail 5th European Conference on Silicon Carbide and Related Materials : book of abstracts : 31 August-4 September 2004, Bologna, Italy 2004 / p. 317-318
https://www.researchgate.net/publication/250344144_Modeling_of_Photon_Recycling_in_GaN-Devices

Modeling of photon recycling in GaN-devices

Velmre, Enn; Udal, Andres; Klopov, Mihhail Silicon carbide and related materials 2004 : ECSCRM 2004 : proceedings of the 5th European Conference on Silicon Carbide and Related Materials, August 31-September 4, 2004, Bologna, Italy 2005 / p. 1039-1042 : ill
https://www.researchgate.net/publication/250344144_Modeling_of_Photon_Recycling_in_GaN-Devices

Modeling of photon recycling in GaN-devices

Velmre, Enn; Udal, Andres; Klopov, Mihhail Material Science Forum. 483/485 2005 / p. 1039-1042
https://www.researchgate.net/publication/250344144_Modeling_of_Photon_Recycling_in_GaN-Devices

Quasistatic methods for measuring the emitter, collector and base resistances in advanced bipolar transistors

Bubennikov, Alexander N.; Kobosev, Gennady BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 117-120: ill

Research and development of control methods for low-loss IGBT inverter-fed induction motor drives = Energiatõhusa IGBT transistor-vaheldiga asünkroonajami juhtimismeetodite uurimine ja väljatöötamine

Egorov, Mikhail 2011 <https://digi.lib.ttu.ee/i/?616>

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

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 suurendamise meetodite uurimine

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

Short-circuit protection circuits for silicon-carbide power transistors

Sadik, Diane-Perle; Colmenares, Juan; Tolstoy, Georg; Rabkowski, Jacek IEEE transactions on industrial electronics 2016 / p. 1995-2004 : ill <https://doi.org/10.1109/TIE.2015.2506628>

Simplified digital average current mode control algorithm for half- or full-bridge isolated DC/DC converters

Roasto, Indrek; Vinnikov, Dmitri IECON 2009 : 35th Annual Conference of the IEEE Industrial Electronics Society. ICEIE 2009 : 3rd IEEE International Conference on E-learning in Industrial Electronics : Porto, Portugal, 3-5 November 2009 : abstracts 2009 / p. 166

Simplified digital average current mode control algorithm for half- or full-bridge isolated DC/DC converters

Roasto, Indrek; Vinnikov, Dmitri IECON 2009 : 35th Annual Conference of the IEEE Industrial Electronics Society : Porto, Portugal, 3-5 November 2009 : preprint proceedings 2009 / p. 1744-1749 : ill <https://ieeexplore.ieee.org/document/5414820/similar#similar>

Simulation and evaluation of control methods for the rolling stock static auxiliary converter based on three-level NPC inverter topology [Electronic resource]

Roasto, Indrek; Vinnikov, Dmitri; Vodovozov, Valery POWERENG 2009 : 2nd International Conference on Power Engineering, Energy and Electrical Drives : 18-20 March, 2009, Lisbon, Portugal 2009 / p. 593-598 : ill. [CD-ROM]
<https://ieeexplore.ieee.org/document/4915176/similar#similar>

Study of radiative recombination influence in GaN and GaAs bipolar transistor structures

Velme, Enn; Udal, Andres; Verbitski, Irina BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 59-62 : ill

Switch-off behaviour of 6.5 kV IGBT modules in two-level voltage source inverter

Blinov, Andrei; Jalakas, Tanel; Vinnikov, Dmitri; Janson, Kuno Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2010 / p. 121-126 : ill https://www.researchgate.net/publication/258448388_Switch-Off_Behaviour_of_65_kV_IGBT_Modules_in_Two-Level_Voltage_Source_Inverter

Viies vaatus - tripoodide serenaad : väikesed ja kolme jalaga

Sinivee, Veljo Horisont 2008 / 5, lk. 52-53 : ill https://artiklid.elnet.ee/record=b2041608*est

Основы расчета малошумящих усилителей на биполярных транзисторах

Kuimet, Neeme; Laksberg, Edgar; Ratassepp, Jaak; Tammet, Heinar Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 47-48
https://www.ester.ee/record=b1322122*est