

Amplitude-modulated low-power decoupling sequences for fast magic-angle spinning NMR

Agarwal, Vipin; **Tuherm, Tiit; Reinhold, Andres; Past, Jaan; Samoson, Ago**; Ernst, Matthias; Meier, Beat H. Chemical Physics Letters 2013 / p. 1-7 <https://doi.org/10.1016/j.cplett.2013.07.073> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An improved programmed PWM method using walsh functions

Gatlan, Leonard; Gatlan, Clarissa BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 213-216: ill

Brain stimulation by modulated microwave radiation: a feasibility study

Bachmann, Maie; Bachmann, Jaanus; Ioannides, Andreas A.; **Hinrikus, Hiie** 2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields (EMF-Med), 10-13 Sept. 2018 2018 / 2 p <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8526055&tag=1>

Comparison of pulse width modulation methods for a quasi impedance source inverter

Ott, Silver; Roasto, Indrek; Vinnikov, Dmitri 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II 2011 / p. 25-29 : ill

D/A interface for 16*16 vector modulator matrix

Marjonen, Jouko; Aberg, Markku BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 257-260: ill

Deviation extension problems and nonlinear effects in the phase locked loop frequency demodulators

Min, Mart; Männama, Vello; Paavle, Toivo Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 2, p. 120-134 : ill https://artiklid.elnet.ee/record=b1004042*est

Discontinuous space vector modulation technique for motor supply

Vodovozov, Valery; Egorov, Mikhail EUROCON 2011 : International Conference on Computer as a Tool : April 27-29, Lisbon, Portugal 2011 / [4 p.] : ill

Dynamic element matching techniques for multibit modulators

Lindfors, Saska; **Ööpik, Priit**; Halonen, Kari Proceedings of the 1996 URSI/IEE/IRC XXI National Convention on Radio Science, 2-3 October 1996, Espoo, Finland 1996 / p. 179-180

Efficiency improvement of step-up series resonant DC-DC converter in buck operating mode

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316574>

Efficient fixed-switching modulated finite control set-model predictive control based on artificial neural networks

Bakeer, Abualkasim Ahmed Ali; Alhasheem, Mohammed; Peyghami, Saeed Applied Sciences (Switzerland) 2022 / art. 3134 <https://doi.org/10.3390/app12063134> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

FOPID controllers and their industrial applications: a survey of recent results

Tepljakov, Aleksei; Alagoz, Baris Baykant; **Petlenkov, Eduard** IFAC-PapersOnLine 2018 / p. 25-30 <https://doi.org/10.1016/j.ifacol.2018.06.014> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A frequency modulation in the phase-lock loop

Land, Raul Tallinna Tehnikaülikooli Toimetised 1990 / lk. 19-26

GMSK modelleerimine

Meister, Ants Raadiotehnika 2001 : VIII rahvusvahelise telekommunikatsioonipäeva materjalid 2001 / lk. 54-58 : ill

Harmonic suppression in high power DC controlled reactors for AC power transmission lines

Tellinen, Juhan; Järvi, Jaan 8th International Conference on Harmonics and Quality of Power, October 14-16, 1998, Athens, Greece : proceedings. Vol. 2 1998 / p. 844-847: ill <https://ieeexplore.ieee.org/document/760152>

A hybrid modulation approach for step-up/ down partial power converter with improved MPPT efficiency around zero partiality

Yadav, Neelesh; Chub, Andrii; Hassanpour, Naser; Blinov, Andrei; Vinnikov, Dmitri; Galkin, Ilya IEEE transactions on industry applications 2025 <https://doi.org/10.1109/TIA.2025.3525607>

Identification and characterization of modulation scheme in an EV-PMSM control strategy for digital twin modeling

Mohamed, Mahmoud Ibrahim Hassanin; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants Diagnostika 2024 - 2024

International Conference on Diagnostics in Electrical Engineering, Proceedings 2024 / 5 p

<https://doi.org/10.1109/Diagnostika61830.2024.10693927>

Impedance network impact on the controller design of the QZSI for PV applications

Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; Liivik, Elizaveta; Blaabjerg, Frede 2020 IEEE 21st Workshop on Control and Modeling for Power Electronics (COMPEL), Aalborg, Denmark, November 9-12, 2020 2020 / 6 p

<https://doi.org/10.1109/COMPEL49091.2020.9265708>

Improved mitigation of self-phase modulation induced impairments in 28 GBaud phase-sensitive amplified links

Astra, Egon; Eliasson, Henrik; Ruuben, Toomas; Andrekson, Peter Avo Optics express 2019 / p. 4304-4316 : ill

<https://doi.org/10.1364/OE.27.004304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improved PWM-based sinewave generation : example of the impedance measurement

Abdullayev, Anar; Annus, Paul; Krivošei, Andrei; Metshein, Margus; Märten, Olev; Rist, Marek Automatic control and computer sciences 2023 / p. 449-458 <https://doi.org/10.3103/S0146411623050024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Low capacity electronic telephone exchange with temporal switching using delta modulation for the conversation signal

Petrut, Duma BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 287-290: ill

Mikroskeemsed ja transistormodulaatorid : raadiosaateseadmete laboratoorsed tööd. III vihik

1988 https://www.ester.ee/record=b1224917*est

Modified high voltage gain soft-switched quasi-switched boost inverter

Abbasi Aghdam Meinagh, Farhad; Babaei, Ebrahim; Vinnikov, Dmitri; Chub, Andrii 2019 IEEE International Conference on Industrial Technology, ICIT 2019 : Melbourne, Australia, 13-15 February 2019 : proceedings 2019 / p. 1087-1092 : ill

<https://doi.org/10.1109/ICIT.2019.8755041>

Modulatsioon

Meister, Ants 1999 https://www.ester.ee/record=b1222759*est

Multi-level and mixed-level simulation of CMOS switched-current sigma-delta modulator

Zhu, Ping; Tenhunen, Hannu BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 209-212: ill

Multiport current fed push/pull partial power converter for battery integration in DC microgrid

Yadav, Neelesh; Chub, Andrii 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604406>

Network coding and hierarchical modulation for energy efficient cooperative WBAN

Waheed, Maham; Talha, Sadaf; Ahmad, Rizwan; Kiani, Adnan Khalid; Alam, Muhammad Mahtab; Ahmed, Waqas International journal of distributed systems and technologies 2019 / p. 90-111 <https://doi.org/10.4018/IJDSST.2019070106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New modulation technique for three-level quasi-Z-source inverter

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Husev, Oleksandr; Vinnikov, Dmitri 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 68-71 : ill

N-path dynamic element matching for multibit bandpass sigmadelta modulators

Lindfors, Saska; Ööpik, Priit; Halonen, Kari International journal of circuit theory and applications 1997 / p. 335-346: ill

An overview and comprehensive comparative evaluation of constant-frequency voltage buck control methods for series resonant DC-DC converters

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri; Bakeer, Abualkasim Ahmed Ali IEEE Open Journal of the Industrial Electronics Society 2021 / p. 65 - 79 <https://doi.org/10.1109/OJIES.2020.3048003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance evaluation of step-up /down partial power converters based on current-fed DC-DC topologies

Yadav, Neelesh; Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri; Galkin, Ilja; Abdelrahim Abdelghafour, Omar Mohamed IEEE transactions on industry applications 2024 / p. 7111-7124 <https://doi.org/10.1109/TIA.2024.3413050>.

Performance evaluation of step-up/down partial power converters based on current-fed DC-DC topologies

Yadav, Neelesh; Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri; Galkin, Ilya; Abdelrahim Abdelghafour, Omar Mohamed IEEE transactions on industry applications 2024 / p. 7111-7124 : ill <https://doi.org/10.1109/TIA.2024.3413050> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Raadioringhäälingusüsteem. Väga kõrge sageduse ala sagedusmodulatsiooniga raadioringhäälingusaatjad
Järvik, Äрни; Rätsepso, Valeri; **Schults, Eduard** 1999 https://www.ester.ee/record=b1315054*est

Raadiosaateseadmed. III vihik, Modulaatorid = Радиопередающие устройства. III, Модуляторы
1987 https://www.ester.ee/record=b1234489*est

Reconfigurable three-switch leg multi-port boost inverters with novel modulation schemes for hybrid DC/AC microgrid systems

Reddy, M. Rama Narayana; Reddy, B. Dastagiri; Prabhakaran, Prajof; **Chub, Andrii;** Kouro, Samir IEEE Access 2025 / p. 77124-77146 <https://doi.org/10.1109/ACCESS.2025.3565791> <https://ieeexplore.ieee.org/document/10980297>

Sensitivity of human EEG to modulation frequency of microwave radiation [Electronic resource]

Tomson, Ruth; Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viuu IFMBE proceedings 2005 / [5] p. [CD-ROM]

A simple space vector modulation method with DC-link voltage balancing and reduced common-mode voltage strategy for a three-level T-type quasi-Z source inverter

Mayorga, Nicolas; Roncero-Clemente, Carlos; Llor, Ana M.; **Husev, Oleksandr** IEEE Access 2021 / art. 9447724, p. 82747-82760 <https://doi.org/10.1109/ACCESS.2021.3087035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulation study of different modulation techniques for three-level quasi-Z-source inverter

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr; Vinnikov, Dmitri** 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, Paper 14 of Subsection of Power Electronic Converters and Applications 2012 / 7 p. : ill

Simulation study of inverter-fed motor drives

Egorov, Mikhail 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. 165-168 : ill

Single-stage single-phase current source inverter for standalone applications

Sohail, Umer; **Blinov, Andrei;** Østrem, Trond; Hoff, Bjarte; **Carvalho, Edivan Laercio** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10905718>

Step-up/down partial power converter with enhanced MPPT efficiency around zero partiality

Yadav, Neelesh; Chub, Andrii; Hassanpour, Naser; Blinov, Andrei; Vinnikov, Dmitri 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10412980>

SVPWM strategy for single-phase three-level impedance source inverter

Shults, Tatiana; Sidorov, Andrey; **Husev, Oleksandr** 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 144-147 : ill http://www.ester.ee/record=b4650094*est

The modern approach to practical trainings for specialists of automatics [Electronic resource]

Grinko, Aleksandr 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/4417354>

Tracking of MPP for three-level neutral-point clamped qZ-source off-grid inverter in solar applications

Roncero-Clemente, Carlos; **Husev, Oleksandr;** Minambres-Marcos, Victor; Romero-Cadaval, Enrique; Stepenko, Serhii; **Vinnikov, Dmitri** Journal of microelectronics, electronic components and materials 2013 / p. 212-221 : ill https://www.researchgate.net/publication/259495902_Tracking_of_MPP_for_three-level_neutral-point_clamped_qZ-source_off-grid_inverter_in_solar_applications

Walshi signaalide kasutamine sideaparatuuris

Heinrichsen, Vladimir Side. Raadio. Televisioon : infoseeria 10 1978 / lk. 15-18 : ill https://www.ester.ee/record=b1232303*est

Ühekülgriba eraldamise tehnikast

Meister, Ants A & A 2008 / 2, lk. 34-37 : ill https://artiklid.elnet.ee/record=b1021821*est

Нелинейные делители напряжения с широтно-импульсной модуляцией

Rebane, Raul-Vello; **Rüstern, Ennu** Тезисы докладов научно-технической конференции, посвященной Дню радио 1974 / с. 16-17 https://www.ester.ee/record=b1294751*est

Транзисторные и микросхемные модуляторы : лабораторные работы по радиопередающим устройствам
1988 https://www.ester.ee/record=b1224922*est

Широтно-импульсная модуляция по синусоидальному закону

Тоомела, Р. Электромеханика. 3 1970 / с. 55-60 : илл https://www.ester.ee/record=b2189951*est
<https://digikogu.taltech.ee/et/Item/ba0097d6-af8f-4557-96a1-ac545e315074/>