

Veröffentlichungen

- [13] M. Finkenzeller, M. Poebl and T. Komma, "**A new Approach of Resonant Converter using Large Air Gap Transformer,**" *2020 22nd European Conference on Power Electronics and Applications (EPE'20 ECCE Europe)*, Lyon, France, 2020, pp. P.1-P.8, doi: 10.23919/EPE20ECCEEurope43536.2020.9215723.
- [12] A. Reinhold: **Theoretische Untersuchung und Simulation einer aktiven Filteranlage mit parallel-serieller Struktur für sechspulsige Diodengleichrichter**, Dissertation, TU Ilmenau, May 2018, Prof. J. Petzoldt.
- [11] A. Reinhold, U. Raedel, R. Grohmann and J. Petzoldt, "**Influence of the Zero Sequence Voltage on the Design of a Series Active Filter,**" *PCIM Europe 2016; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management*, Nuremberg, Germany, 2016, pp. 1-6.
- [10] A. Reinhold, U. Rädel, R. Grohmann and J. Petzoldt, "**AC Side Parallel-Series Active Filter with DC Voltage Control Capability of a Diode Rectifier,**" *2015 17th European Conference on Power Electronics and Applications (EPE'15 ECCE-Europe)*, Geneva, Switzerland, 2015, pp. 1-8, doi: 10.1109/EPE.2015.7309184.
- [9] A. Reinhold, U. Raedel, R. Grohmann and J. Petzoldt, "**AC- and DC-Power Quality Improvement of Diode Rectifiers due to Parallel-Series Active Filtering,**" *Proceedings of PCIM Europe 2015; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management*, Nuremberg, Germany, 2015, pp. 1-6.
- [8] T. Komma, M. Poebl: **Determination and Comparison of Equivalent Circuit Parameters in Large-Air-Gap Transformers by Different Methods**, *PCIM 2015*, Nuremberg, May 2015.
- [7] T. Komma, M. Poebl: **Characterization of Large-Air-Gap Transformer Systems by Two-Port-Theory**, *PCIM 2013*, Nuremberg, May 2013.
- [6] K. Kriegel, T. Komma, W. Kiffe, S. Levchuk and J. Otto, "**Influence of Baseplate Design on Cooling Performance and Reliability,**" *2012 7th International Conference on Integrated Power Electronics Systems (CIPS)*, Nuremberg, Germany, 2012, pp. 1-5.

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- [5] T. Komma and W. Kiffe, "**Dynamic junction temperature calculation and measurement by Four-pole theory and complex Fourier-Series**," *2009 13th European Conference on Power Electronics and Applications*, Barcelona, Spain, 2009, pp. 1-9.
- [4] T. Komma and H. Gueldner, "**The effect of different air-gap positions on the winding losses of modern planar ferrite cores in switch mode power supplies**," *2008 International Symposium on Power Electronics, Electrical Drives, Automation and Motion*, Ischia, Italy, 2008, pp. 632-637, doi: 10.1109/SPEEDHAM.2008.4581182.
- [3] B. Ulrich, T. Komma and H. Gueldner, "**A measurement system for determining inductor losses in inverters in the MHz range**," *4th International Conference on Integrated Power Systems*, Naples, Italy, 2006, pp. 1-6.
- [2] T. Komma: **Allgemein gültiger Entwurfsalgorithmus für magnetische Komponenten in Schaltnetzteilen mit unterschiedlichen Topologien und Schaltfrequenzen bis 2 MHz**, Dissertation, TU Dresden, 2005, Prof. H. Güldner.
- [1] T. Komma, H. Gueldner: **A Measurement Method to determine Core Losses caused by a DC-Flux-Density-Bias**, PCIM Nuremberg, 2002, PCIM/ZM Communications GmbH.