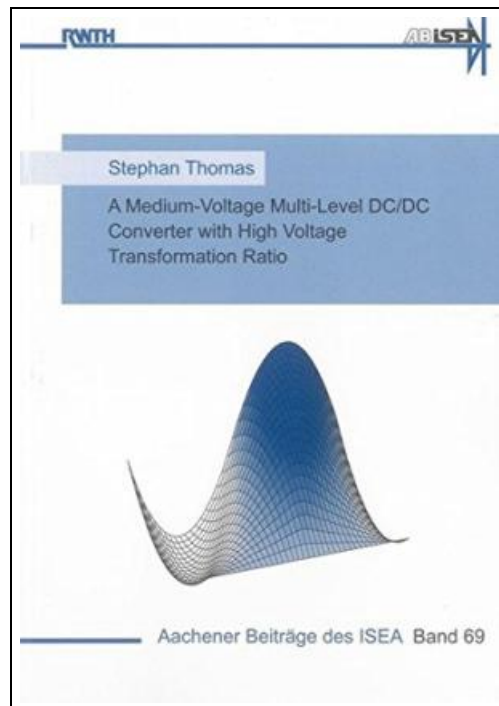


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A MEDIUM-VOLTAGE MULTI-LEVEL DC/DC CONVERTER WITH HIGH VOLTAGE TRANSFORMATION RATIO

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Shaker Verlag Mrz 2014, 2014. Buch. Condition: Neu. Neuware - Renewable energy sources are becoming increasingly important these days. The nuclear power phase-out in Germany and the limited amount of fossil energy resources will lead to further expansion of renewables. This might be directly linked with a change in the distribution and transportation grid. As early as in the 1990's ABB introduced a DC grid vision in a Europe 20xx scenario [1]. DC transmission systems are already used in large offshore wind-park installations and offer beside technical advantages (increased efficiency, smaller transformers) also economic benefits [2]. From industry perspective, ABB recently introduced an onboard DC-grid for marine power and propulsion systems with a grid voltage of 1000 V and up to 20 MW of power [3]. But also DC distribution grids in the mediumvoltage level range have come into the focus of research in the last years [4]. According to [1], DC offers significant loss reduction, less visual impact, lower electromagnetic fields. Furthermore it is the only solution for sub-sea connections longer than 60 km. One key component for the required technology is the DC/DC converter, which is also used in solid state transformers [5]. DC/DC converters for small power and low-voltage levels are well known today. The dual-active bridge converter, consisting of two H-bridge or halfbridge converters, offers bidirectional power flow, galvanic isolation and is a well-established topology [6], [7]. The voltage drop over the effective stray inductance of the transformer, which corresponds to the transferred power, is controlled by the phase-shift between both transformer voltages. An overview of the different galvanically isolated DC/DC converters is given in [8] and [9]. Recent research is investigating the potential to optimize the dual-active H-bridge converter using a transformer zero-voltage level [10]. The zero-voltage level is obtained by switching-on either both upper...

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