

Phase Shifted Full Bridge Dc Dc Power Converter Design Guide

High-Frequency Isolated Bidirectional Dual Active Bridge DC–DC Converters with Wide Voltage Gain
High Frequency Isolated Semi Dual Active Bridge DC-DC and AC-DC Converter
Design and Implement a DC Drive Using a Half Bridge DC-DC Converter
Design and Evaluation of a Reconfigurable Stacked Active Bridge Dc/dc Converter for Efficient Wide Load-range Operation
High-Robust Control Schemes for Dual-Active-Bridge-Based DC–DC Converter Systems in Renewable Energy Applications
Design and Implementation of a Three-phase Dual Active Bridge DC-DC Converter for MVDC Applications
Vehicle, Mechatronics and Information Technologies
A 1-kW Soft Switching Full-bridge DC-DC Converter
Dual Active Bridge DC/DC Converter with Internal Transformer for High Power Applications
Quantum, Nano, Micro and Information Technologies
Quadruple Active Bridge DC-DC Converter as the Basic Cell of a Modular Smart Transformer
Large- and Small-signal Average Modeling of Dual Active Bridge Dc-dc Converter Considering Power Losses
Modeling and Optimization of Bidirectional Dual Active Bridge DC-DC Converter Topologies
Design and Implementation of a Bidirectional Phase-Shift Full-Bridge DC-DC Converter with Clamp Circuits
2013 International Conference on Process Equipment, Mechatronics Engineering and Material Science
Design Optimization of an Asymmetric Half-bridge DC-DC Converter
Full Bridge DC-DC Converter with Voltage Multiplier Output
Control and Topology Improvements in Half-bridge DC-DC Converters
Characterization and Design of Voltage-mode Controlled Full-bridge DC/DC Converter with Current Limit
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Institute of Electrical and Electronics Engineers

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DC Converter Topologies Design and Implementation of a Bidirectional Phase-Shift Full-Bridge DC-DC Converter with Clamp Circuits 2013 International Conference on Process Equipment, Mechatronics Engineering and Material Science Design Optimization of an Asymmetric Half-bridge DC-DC Converter Full Bridge DC-DC Converter with Voltage Multiplier Output Control and Topology Improvements in Half-bridge DC-DC Converters Characterization and Design of Voltage-mode Controlled Full-bridge DC/DC Converter with Current Limit Index to IEEE Publications *Deshang Sha Deshang Sha Khainifa Khalil Rose A. Abramson Nie Hou Youngsil Lee X.D. Yu Andrew Dickson Mohammad Ishlah Haji Abdul Rahman Yuan Zhi Wang Levy F. Costa Kai Zhang Florian Krismer 田田 Jian Min Xu Peng Wu John B. Rivera Poventud Songquan Deng Nathaniel R. Smith Institute of Electrical and Electronics Engineers*

written by experts this book is based on recent research findings in high frequency isolated bidirectional dc dc converters with wide voltage range it presents advanced power control methods and new isolated bidirectional dc dc topologies to improve the performance of isolated bidirectional converters providing valuable insights advanced methods and practical design guides on the dc dc conversion that can be considered in applications such as microgrid bidirectional ev chargers and solid state transformers it is a valuable resource for researchers scientists and engineers in the field of isolated bidirectional dc dc converters

this book focus on the high frequency power conversion especially on high frequency isolated dc dc and single stage ac dc converters base on dual active bridge dc dc conveters two swiches are replaced by two diodes and this makes the dab suit for unidirectional power flow applications the shoot through issue can be avoided the design can be simplified and the cost can be reduced compared with widely used high frequency isolated dc dc converters operating under unidirectional power flow applications semi dab based dc dc converters can achieve full load operating range zvs for all switches with relying on auxiliary circuits and zcs off for diodes besides conversion efficiency can improved and optimized with different working conditions the semi dab can be used for ac dc power conversion although without mandatory inner current tracking loops natural pfc can be obtained with the proposed control strategies zvs for switches even for no load working condition in facing the variation of instantaneous ac grid voltage can be guaranteed it presents new high frequency isolated unidirectional dc dc and single stage ac dc topologies advanced modulation and multimode power control methods to improve the performance of converters the book provides valuable insights advanced methods and practical design guides on the dc dc and ac dc conversion that can be considered in applications such as ev chargers energy storage emicrogrid and solid state transformers it is a valuable resource for researchers scientists and engineers in the field of high frequency isolated dc dc and ac dc converters

this thesis presents the design and implementation of a step down soft switched dc dc converter based on an active bridge topology which overcomes some of the limitations of the conventional dual active bridge dab the topology comprises a double stacked bridge inverter coupled to a reconfigurable rectifier through a special three winding leakage transformer the converter can run in a low power mode that greatly

increases light load efficiency by reducing core loss and extending the zero voltage switching zvs range the converter is implemented with a single compact magnetic component providing power combining isolation and energy transfer inductance the theory of the converter and its various operating modes referred to in this thesis as the double stacked active bridge converter is also explored and a magnetic model of the special three winding transformer and leakage inductance is presented the target application is for 380 v dc distribution systems for data centers where the converter operates for the majority of the time at the nominal input voltage but must have high efficiency over a wide load range a 175 khz 300 w 380 v to 12 v prototype converter achieves 95.9 efficiency at full load a peak efficiency of 97.0 an efficiency above 92.7 down to 10 load and an efficiency above 79.8 down to 3.3 load

high robust control schemes for dual active bridge based dc dc converter systems in renewable energy applications is the first book that presents systematic control schemes for multiple dab based dc dc converter systems the book explores new control methods for various dab dc dc converters for high power applications these methods include fast dynamic control power balance control soft start up operation hot swap operation and circuit parameter estimation additionally the book studies a dab based partial power processing dc dc converter system designed to embed the renewable energy source and the energy storage system for boosting the utilization of components the book also verifies the dynamic equivalence between the dab converter and other intermediary inductive ac link dc dc converters which can be helpful in designing control systems for other ac link based dc dc converter systems this book is a valuable reference for graduate students in electrical engineering researchers and power electronics engineers working in manufacturing renewable energy and utility industries

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efficiency and transient response are two key requirements for dc dc converters topology and control are two key topics in this dissertation a variety of techniques for dc dc converter performance improvement are presented in this work

advancements in direct current dc electrical power systems have enabled new functionality in many varied applications discrete power

semiconductor devices are increasing in efficiency switching frequency and power density resulting in greater usage of dc power management and distribution methods including dc dc conversion dc distribution lacks inherent capability to safely and effectively break fault current particularly in mobile solutions where larger and slower electromechanical switching devices are not optimal or feasible one solution is to design a low energy breaking point into a switching power supply simpler converter designs with a lower number of switching devices have been modeled and can be functionally utilized for this purpose however these designs cannot easily or efficiently provide isolation between the source and the load a full bridge dc dc converter can accomplish this task with galvanic isolation through a transformer the full bridge dc dc converter is fairly complex to analyze with state space analysis and does not have an existing averaged model this thesis focuses on developing averaged and small signal models for the full bridge dc dc converter validating the small signal averaged models by simulation in saber circuit simulation software and using the validated models to design a full bridge dc dc converter for simulation in saber the converter power stage is designed along with a type ii controller a comparative current limit non zero voltage switching gate drives and a synchronous rectifier the designed converter is evaluated for closed loop stability against step changes in input voltage load current and reference voltage the results are provided to show sufficient response of the full bridge dc dc converter given the design parameters the proposed architecture accommodates future work to reduce dc fault let through energy

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