



The Parallel Resonant Converter

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The Parallel Resonant Converter:

The Parallel Resonant Converter as a Rectifier Christian Wolf,1993* *The Parallel Resonant Converter as a Rectifier* C. Wolf,1996 Resume p dansk **Dynamic Analysis of the Parallel Resonant Converter** Adan F. Hernandez,1988 Steady-state Analysis and Design of the Parallel Resonant Converter Steven D. Johnson,1986 **A Series-parallel Resonant Converter in Capacitor Charging Applications** Barry Christopher Pollard,1992 **Constant-frequency Parallel-resonant Converter** Yuan Chin,1986 **Current-source Parallel-resonant Converter** Abdulkarim Ajil Abdulkarim,1992 *Design and Control of a Parallel Resonant Converter Utilizing Feedforward of the Supercapacitor Input Voltage* Brian Patton Roberts,1995 *Steady-state and Dynamic Analysis of the LCC-Type Parallel Resonant Converter* Vivek Agarwal,University of Victoria (B.C.). Department of Electrical and Computer Engineering,1994 **Investigation of a Quasi-square Parallel-resonant Converter** Colin Franklin Price,1992 **Design and Analysis of a Parallel Resonant Converter for Standby Power System Applications** Orlando L. Peña,1990 **Resonant DC/DC Converters** Yung-Lin Lin,1986 **Modelling and Control of the Series-parallel Resonant Converter** ,1996 **Analysis of a Series Parallel Resonant Converter** Norjulia Mohamad Nordin,2006 Investigation of a Quasi-square Parallel-resonant Converter Colin Franklin Price,1992 *Series-parallel and Parallel-series Resonant Converters Operating on the Utility Line - Analysis, Design, Simulation and Experimental Results* Vijayakumar Belaguli,1995 High performance ac to dc converters are required to meet the regulation standards to suit wide variety of applications This thesis presents the steady state analysis design and operation of high frequency HF transformer isolated resonant converters on the single phase utility line as a low harmonic controlled rectifier Two resonant converter configurations of third order have been studied namely the LCC type parallel resonant converter also popularly known as series parallel resonant converter SPRC and the hybrid parallel series resonant converter bridge HPSRCB These converters are operated at HF using variable frequency as well as fixed frequency control and they operate in different modes depending on the choice of switching frequency and load The variable frequency SPRC is operated in discontinuous current mode DCM to obtain low line current total harmonic distortion T H D and high power factor pf without using active control State space analysis has been presented for one of the predominant circuit modes encountered during its operation in DCM The various design constraints for operating the resonant converter on the utility line for high pf operation have been stated for different control schemes In addition steady state analysis design optimization carried out for dc dc converter have been presented The effect of resonant capacitor ratio on the converter performance characteristics have been studied SPICE3 simulations and experimental results obtained from a 150 W converter are presented to verify the theory Continuous current mode CCM operation of the SPRC and its effect on the line current T H D and pf are studied Both fixed and variable frequency control schemes have been used to control the SPRC Complex ac circuit analysis method has been considered as

the design tool to get the design curves and design of the SPRC operating on the utility line SPICE3 simulation results for open loop operation and experimental results for both open as well as closed loop operations active control for two capacitance ratios have been presented to verify the converter performance It is shown that nearly sinusoidal line current operation at unity pf can be obtained with closed loop operation A HPSRCB has been proposed and operated at very high pf on the utility line as a controlled rectifier Some of the predominant operating modes of the fixed and variable frequency HPSRCB have been identified The steady state analysis using state space modeling presented for a dc to dc converter has been extended to analyze the ac to dc converter Using the large signal discrete time domain model the time variation of line current and line pf have been predicted using PROMATLAB for both fixed and variable frequency operations of HPSRCB on the utility line SPICE3 simulation results without active control and experimental results obtained from the bread board model for both open as well as closed loop fixed and variable frequency operations have been presented to verify the theory and design performance

DC-DC Converter Topologies Gerry Moschopoulos,2024-01-04 DC DC Converter Topologies A comprehensive look at DC DC converters and advanced power converter topologies for all skills levels As it can be rare for source voltage to meet the requirements of a Direct Current DC load DC DC converters are essential to access service DC DC power converters employ power semiconductor devices like MOSFETs and IGBTs as switches and passive elements such as capacitors inductors and transformers to alter the voltage provided by a DC source into the necessary DC voltage as is required by a DC load This source can be a battery solar panels fuel cells or a DC bus voltage fed by rectified AC utility voltage As the many components of DC DC converters can be differently arranged into circuit structures called topologies there are as many possible circuit topologies as there are possible combinations of circuit elements Focusing on DC DC switch mode power converters ranging from 50 W to 10kW DC DC Converter Topologies provides a survey of all converter topology types within this power range General principles are described for each topology type using a representative converter as an example Variations that can be found that differ from the example are then examined with a helpful discussion of comparisons when relevant A broad range of topics is covered within the book from simple low power converters to complex high power converters and everywhere in between DC DC Converter Topologies readers will also find A detailed discussion of four key DC DC converter topologies Description of isolated two switch pulse width modulated PWM topologies including push pull half bridge and interleaved converters An exploration of high gain converters such as coupled inductors voltage multipliers and switched capacitor converters This book provides the tools so that a non expert will be equipped to deal with the vast array of DC DC converters that presently exist As such DC DC Converter Topologies is a useful reference for electrical engineers professors and graduate students studying in the field

A Series-parallel Resonant Converter for Electrochemical Wastewater Treatment Kathryn Klement,2009 Study and Control of a Phase-controlled Series-parallel Resonant Converter and a Phase-controlled Series-parallel Resonant Inverter Carlos Viñolo Monzoncillo,2012

ANGL S Resonant converters have been widely used for some few decades because of their inherit soft switching characteristic their fast transient response their low losses compared to the PWM based hard switching converters and thus their capability to work at higher frequencies Modeling resonant converters and designing its control is however a challenge due to the high order systems that could be obtained in this kind of circuits This thesis is aimed to analyze and design the closed loop control of a Phase Controlled Series Parallel Resonant Converter PC SPRC that was designed and built some years ago in the dissertation of a PhD student in the Polytechnic School of Brooklyn that nowadays belongs to NYU Also a Phase Controlled Series Parallel Resonant Inverter PC SPRI is designed in parallel in a joint work so its stability and control are studied and designed as well Both the PC SPRC and PC SPRI closed loops are simulated and their controls are implemented in the same DSP having a stable output of 300V DC for the first one and 200Vp AC for the second one These outputs are connected to a 1 100 and 1 50 transformers respectively so a 30KV DC with a 10KVp AC coupled signal is obtained if both transformer secondaries are serially connected The building process of the PC SPRI resonant tank and control board that includes the switching drivers and other devices is detailed The high voltage obtained output is applicable to electrostatic precipitators its operation is based on the electrostatic attraction of the dust particles in polluted air using a high DC signal with a coupled high voltage sinusoid so the operation point of the system is designed based on this application The results of the controlled PC SPRC and PC SPRI are presented here avoiding the transformer connection as a security measure but using an equivalent load

Analysis and Design of Inductive Coupled Parallel Resonant Converter Rui Liu, 1988

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