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Designing Flyback Converters Using Peak-Current-Mode Controllers

By: [Ganesh Kumar Venkatesh](#)
Date: 07/2019

Abstract: Flyback converters design using [SABER](#) [model](#) is outlined. Design methodology and calculations for continuous-conduction mode (CCM), discontinuous-conduction mode (DCM) and synchronous-conduction mode (SCM) are listed separately.

Introduction

This application note describes the methodology of designing flyback converters using the [SABER PowerSwitch Plus](#) peak-current-mode controller. Flyback converters may be operated in discontinuous-conduction mode (DCM) or synchronous-conduction mode (SCM). The important design considerations in power devices, dual active bridge design (by separating in the operating mode of the converter), formulas for calculating component values and ratings are also presented.

DCM Flyback

Primary Inductance Selection

In a DCM flyback converter, the energy stored in the primary inductance of the flyback transformer is delivered during the output. The important primary inductance value for which the converter behaves in DCM at all operating conditions can be calculated as

$$L_{\text{primary}} = \frac{V_{\text{max}} - V_{\text{out}}}{f_{\text{sw}} \cdot I_{\text{out}}} \cdot \frac{V_{\text{in}}}{V_{\text{in}} - V_{\text{out}}} \tag{Eq. 1}$$

where V_{max} is the maximum V_{DS} for the MOSFET (minimum V_{DS}), f_{sw} is the switching frequency of the output power stage in the peak-to-peak mode, and I_{out} is the switching frequency of the power converter. Choose the primary inductance value to be less than L_{primary} .

Duty Cycle Calculation

The average value of the duty cycle (D_{avg}) for the selected primary inductance L_{primary} can be

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Pulse Width Modulated DC-DC Converters Keng Chih Wu,2012-12-06 For the first time in power electronics this comprehensive treatment of switch mode DC DC converter designs addresses many analytical closed form equations such as duty cycle prediction output regulation output ripple control loop gain and steady state time domain waveform Each of these equations are given various topologies and configurations including forward flyback and boost converters Pulse Width Modulated DC DC Converters begins with a detailed approach to the quiescent operating locus of a power plant under open loop The reader is then led through other supporting circuits once again in the quiescent condition These exercises result in the close loop formulations of the subject system providing designers with the ability to study the sensitivities of a system against disturbances With the quiescent conditions well established the book then guides the reader further into the territories of system stability where small signal behaviors are explored Finally some important large signal time domain studies cap the treatment Some distinctive features of this book include detailed coverage of dynamic close loop converter simulations using only personal computer and modern mathematical software Steady state time domain analysis based on the concept of continuity of states Voltage mode and current mode control techniques and their differences of merits A detailed description on setting up different equations for DC DC converters simulation using only PC

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

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