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 Basic relationships
 Magnetic Circuits
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 Introduction to the skin and proximity effects
 Leakage flux in windings
 Foil windings and layers
 Power loss in a layer
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 Interleaving the windings

PWM Waveform harmonics

Several types of magnetics devices their B H loops and core vs copper loss

Filter inductor design constraints

A first pass design

Window area allocation

Coupled inductor design constraints

First pass design procedure coupled inductor

Example coupled inductor for a two output forward converter

Example CCM flyback transformer

Transformer design basic constraints

First pass transformer design procedure

Example single output isolated CUK converter

Example 2 multiple output full bridge buck converter

AC inductor design

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This is the first part of a two-part set of videos illustrating the steps of the first run at designing a DC-DC buck converter. This part ...

Intro

Basic Calculation of a Buck Converter's Power Stage

Overview

Design Requirements and Specifications

Inductor Sizing

Capacitor Sizing

Diode Sizing

MOSFET Sizing

Key points

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Averaged AC modeling

Discussion of Averaging

Perturbation and linearization

Construction of Equivalent Circuit

Modeling the pulse width modulator

The Canonical model

State Space averaging

Introduction to Design oriented analysis

Review of bode diagrams pole

Other basic terms

Combinations

Second order response resonance

The low q approximation

Analytical factoring of higher order polynomials

Analysis of converter transfer functions

Transfer functions of basic converters

Graphical construction of impedances

Graphical construction of parallel and more complex impedances

Graphical construction of converter transfer functions

Introduction

Construction of closed loop transfer Functions

Stability

Phase margin vs closed loop q

Regulator Design

Design example

AMP Compensator design

Another example point of load regulator

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Power Electronics

Energy Scenario

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Half Effective Ramp Amplitude

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