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Resistance

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Capacitance

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Number Bases

Arithmetic in Binary

Octal and Hexadecimal

Using Number Bases Steganography

Arithmetic other bases

Summary

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Modular Arithmetic

Multiplication on Modular Arithmetic

Summary

Using Modular Arithmetic

Introduction to Sequences and Series

Defining Sequences

Arithmetic and Geometric progressions

Using Sequences

Summary

Series

Convergence or Divergence of sequence infinite series

Summary

Introduction to graph sketching and kinematics

Coordinates lines in the plane and graphs

Functions and Graphs

Transformations of Graphs

Kinematics

Summary

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Basic relationships

Magnetic Circuits

Transformer Modeling

Loss mechanisms in magnetic devices

Introduction to the skin and proximity effects

Leakage flux in windings

Foil windings and layers

Power loss in a layer

Example power loss in a transformer winding

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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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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