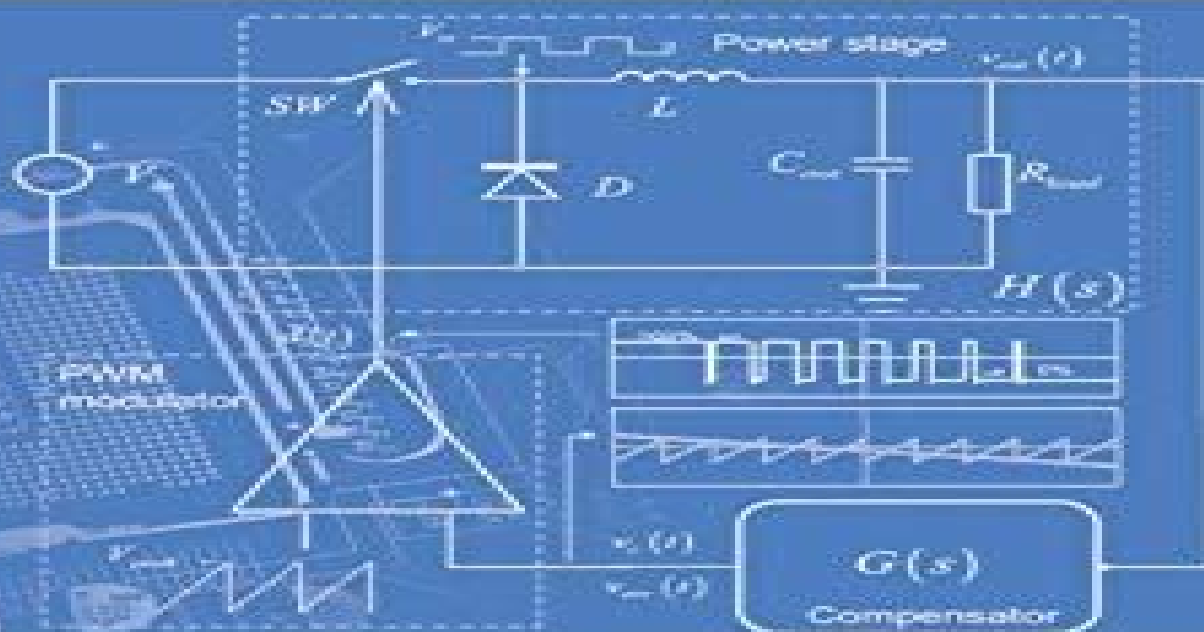


DESIGNING CONTROL LOOPS for LINEAR and SWITCHING POWER SUPPLIES

A TUTORIAL GUIDE



CHRISTOPHE BASSO

Designing Control Loops For Linear And Switching Power Supplies A Tutorial Guide

**Petrogav International Oil & Gas
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Power Supply Cookbook Marty Brown, 2001-05-17 *Power Supply Cookbook* Second Edition provides an easy to follow step by step design framework for a wide variety of power supplies With this book anyone with a basic knowledge of electronics can create a very complicated power supply design in less than one day With the common industry design approaches presented in each section this unique book allows the reader to design linear switching and quasi resonant switching power supplies in an organized fashion Formerly complicated design topics such as magnetics feedback loop compensation design and EMI RFI control are all described in simple language and design steps This book also details easy to modify design examples that provide the reader with a design template useful for creating a variety of power supplies This newly revised edition is a practical start to finish design reference It is organized to allow both seasoned and inexperienced engineers to quickly find and apply the information they need Features of the new edition include updated information on the design of the output stages selecting the controller IC and other functions associated with power supplies such as switching power supply control synchronization of the power supply to an external source input low voltage inhibitors loss of power signals output voltage shut down major current loops and paralleling filter capacitors It also offers coverage of waveshaping techniques major loss reduction techniques snubbers and quasi resonant converters Guides engineers through a step by step design framework for a wide variety of power supplies many of which can be designed in less than one day Provides easy to understand information about often complicated topics making power supply design a much more accessible and enjoyable process

Switching Power Supply Design and Optimization, Second Edition Sanjaya Maniktala, 2013-10-30 The latest techniques for designing state of the art power supplies including resonant LLC converters Extensively revised throughout *Switching Power Supply Design Optimization* Second Edition explains how to design reliable high performance switching power supplies for today's cutting edge electronics The book covers modern topologies and converters and features new information on designing or selecting bandgap references transformer design using detailed new design charts for proximity effects Buck efficiency loss teardown diagrams active reset techniques topology morphology and a meticulous AC DC front end design procedure This

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Simplified Design of Linear Power Supplies John D. Lenk, 1994 No previous design experience is required to use the techniques described All popular forms of linear supplies are covered in detail including zener 3 terminal feedback current foldback op amp series shunt and IC package Extensive use of headings and subheadings helps the reader seeking information on specific types of supplies Simplified Design of Linear Power Supplies is an all inclusive one stop guide to linear power supply design using step by step instructions and diagrams The first half of the book describes how linear power supplies operate and explains what is required to design such supplies The second half provides specific design examples using the techniques described in the first half The basic approach is to start design problems with approximations for trial value components in experimental circuits then to vary the component values until the desired results input output voltage and current line and load regulation ripple rejection noise etc are produced The design examples can be put to immediate use as is or can be modified as required to meet a specific design goal by following the instructions

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