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Introduction to Digital Control of Switched-Mode Power

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This book is focused on the fundamental aspects of analysis, modeling and design of digital control loops around high-frequency switched-mode power converters in a systematic and rigorous manner

Digital Control of High-Frequency Switched-Mode Power

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Combining digital control with current mode topologies can bring higher performance than combinations of analog or voltage mode approaches. However, the design of a low-cost and high performance digital controller is still a challenge. The block diagram of a digital current mode control of dc- dc converter is shown in Fig .2.In this paper ...

Design and Analysis of Digital PWM Controller for DC-DC

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Digital Control Engineering Analysis and Design Second Edition M. Sami Fadali Antonio Visioli AMSTERDAM
â€ BOSTON â€ HEIDELBERG â€ LONDON NEW YORK â€ OXFORD â€ PARIS â€ SAN DIEGO

Digital Control Engineering

Digital control of switching mode power supplies = $\hat{v} \log 2 S \text{FSR} \log N n \text{floor } 10 \text{PP } 10 e$ where SPP is the peak to peak amplitude (in Volts) of the transduced input signal, FSR is the ADC full scale range (in Volts) and n is the ADC bit number.

Digital control of switching mode power supplies Simone Buso

significant industry attention today is the application of digital technology to power supply control. This topic

attempts to clarify some of the mysteries of digital control for the practicing analog power supply designer. The benefits, limitations, and performance of the digital control concept will be reviewed.

SEM1600 Topic 6: A Practical Introduction to Digital Power

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Digital Control of High-Frequency Switched-Mode Power

Read an Excerpt Chapter 01 (PDF) Index (PDF) Table of Contents (PDF) ... This book is focused on the fundamental aspects of analysis, modeling and design of digital control loops around high-frequency switched-mode power converters in a systematic and rigorous manner.

Digital Control of High-Frequency Switched-Mode Power

This introduction presents an overview of the concepts discussed in this book. The book is focused on the fundamental aspects of analysis, modeling, and design of digital control loops around high-frequency switched-mode power converters in a systematic and rigorous manner.

IEEE Xplore Book Home Page - Digital Control of High

It presents a the compensator design, which is based on the so-called bilinear transform, an effective tool for direct z-domain synthesis. This is followed by a discussion on the digital proportional-integral-derivative (PID) compensator.

Digital Control - Digital Control of High-Frequency

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Digital Control of High-Frequency Switched-Mode Power

Digital control is a branch of control theory that makes use of digital computers for acting as controllers for a system. Here, a computer is responsible for the implementation of the control algorithm.

What is Digital Control? - Definition from Techopedia

7-1 Topic 7 Applying Digital Technology to PWM Control-Loop Designs Mark Hagen and Vahid Yousefzadeh Abstr A ct This topic discusses the application of digital-control to DC/DC-switching converters and how to model

Applying Digital Technology to PWM Control-Loop Designs

significant industry attention today is the application of digital technology to power supply control. This topic attempts to clarify some of the mysteries of digital control for the practicing analog power supply designer.

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Preface This book is intended to give the senior or beginning graduate student in mechanical engineering an introduction to digital control of mechanical systems with an emphasis on applications.

Introduction to Applied Digital Control

Applying digital methods to the control of power converters, in particular board-mounted dc/dc converters, offers a rich set of possibilities from which to create new features, improved performance, and much greater product flexibility, and all at lower cost.

DCDC Technical White Paper from Astec Power - Silicon Labs

Digital Control™s first product was an immediate success as productivity increased drastically, cable locators faded from the market and digital locating of drill heads became

Horizontal Directional Drilling Guide FLYING HIGH

Digital control techniques for flyback converters have been widely investigated. A digital primary-side sensing control technique is proposed in [23], for the output voltage/current regulation by employing an auxiliary winding.

Digital Control of a High Voltage (2.5 kV) Bidirectional

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List of Figures 1.1 Steps and procedures to create a digital control system 4 2.1 Implemented control system. (a) shows the schema of a digital

Digital Control Techniques for DC/DC Power Converters

Marko Vulovic ABSTRACT DIGITAL CONTROL OF A HIGH FREQUENCY PARALLEL RESONANT DC-DC CONVERTER Marko Vulovic Abstract A brief analysis of the nonresonant-coupled parallel resonant converter is performed. The converter is modeled and a reference classical analog controller is designed and simulated.

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MODELING AND DIGITAL CONTROL OF HIGH FREQUENCY DC-DC POWER CONVERTERS by YANGYANG WEN B.E., Chongqing University, P. R. China, 1996 M.S., Chongqing University, P. R ...

MODELING AND DIGITAL CONTROL OF HIGH FREQUENCY DC-DC POWER

Everything You Wanted to Know About Digital Potentiometer (POT) Abstract The digital POT is a mixed signal device. The analog ... Digital POTs control voltage, current, resistance, power, inductance, capacitance, frequency, bandwidth, ... 256 Tap Digital POTs Figure 7. High Resolution Summer Circuit QUESTION 9: Do I have to have a computer or ...

AND8414 - Everything You Wanted to Know About Digital

Digital Control Enables High Reliability DC-to-DC Power Conversion with Active Snubbing. by Subodh Madiwale Download PDF Typically, for isolated dc-to-dc power supply applications with high output current, the use of synchronous rectifiers (particularly MOSFETs) is dominant.

Digital Control Enables High Reliability DC-to-DC Power

The proposed control employs two paralleled digital compensations to guarantee the good closed-loop performance in a wide load range during the steady state, an optimized trajectory control will ...

(PDF) Digital control of a half-bridge LLC resonant converter

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Thermostat Control Logic with Hysteresis â€œ! Hysteresis delays the response â€œ! System responds with a limit cycle Cooling control is similar with sign reversal

Dynamic Effects of Feedback Control - Princeton University

that digital SMPS control has received increased attention in the power electronics community [19], [20]. The paper is organized as follows: examples of high-

Impact of Digital Control in Power Electronics

The research described in this dissertation focuses on the development of innovative on/off valves for high performance, high efficiency control of fixed displacement hydraulic pumps and motors.

High Speed Rotary PWM On/Off Valves for Digital Control of

A proportionalâ€“integralâ€“derivative controller (PID controller or three term controller) is a control loop feedback mechanism widely used in industrial control systems and a variety of other applications requiring continuously modulated control.

PID controller - Wikipedia

This book is focused on the fundamental aspects of analysis, modeling and design of digital control loops around high-frequency switched-mode power converters in a systematic and rigorous manner.

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Direct Digital Control (DDC) is a type of energy management system. DDC is a form of closed ... and high/low limits. The controller compares the input ... information on Direct Digital Controls (DDC) and an easy searchable guide to DDC manufacturers.

Direct Digital Controls (DDC) - Climate Control

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Control theory is a relatively new field in engineering when compared with core topics, such as statics, dynamics, thermodynamics, etc. Early examples of control systems were developed actually before the

Control Systems Engineering

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DESIGN AND IMPLEMENTATION OF DIGITAL CONTROLLERS FOR BUCK AND BOOST CONVERTERS USING LINEAR AND NONLINEAR CONTROL METHODS Except where reference is made to the work of others, the work described in this thesis is

DESIGN AND IMPLEMENTATION OF DIGITAL CONTROLLERS FOR BUCK

Digital control of switching power supplies is becoming more and more common in industry today because of the availability of low cost, high performance DSP controller with enhanced and integrated power electronic peripherals such as analog-to-digital (A/D) converters and pulse width modulator (PWM).

Digital Control Design and Implementation of a DSP Based

Digital control can be used as an enabling technology to offer performance, value, reliability and power density improvements to the end user.

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High Performance Single Phase DC/DC Controller with Digital Power Management PDF DC/DC Controller Combines Digital Power System Management with Analog Control Loop for $\hat{A}\pm 0.5\%$ VOUT Accuracy PDF

Digitally Programmable Regulators | Analog Devices

The interest in on-line digital control of processes handling signals with higher and higher frequencies, has focussed attention on the errors due to sampling and digital processing delays. The proposed solutions have shown an order of magnitude increase in the accuracy of the control tasks. However ...

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