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Digital Control in Power Electronics

Second Edition

Simone Buso
Paolo Mattavelli

*SYNTHESIS LECTURES ON
POWER ELECTRONICS*

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Digital Control In Power Electronics Synthesis Lectures On Power Electronics

Simone Buso, Paolo Mattavelli



Digital Control In Power Electronics Synthesis Lectures On Power Electronics:

Digital Control in Power Electronics Simone Buso, Paolo Mattavelli, 2015-05-01 This book presents the reader whether an electrical engineering student in power electronics or a design engineer a selection of power converter control problems and their basic digital solutions based on the most widespread digital control techniques The presentation is primarily focused on different applications of the same power converter topology the half bridge voltage source inverter considered both in its single and three phase implementation This is chosen as the test case because besides being simple and well known it allows the discussion of a significant spectrum of the most frequently encountered digital control applications in power electronics from digital pulse width modulation DPWM and space vector modulation SVM to inverter output current and voltage control ending with the relatively more complex VSI applications related to the so called smart grid scenario This book aims to serve two purposes 1 to give a basic introductory knowledge of the digital control techniques applied to power converters and 2 to raise the interest for discrete time control theory stimulating new developments in its application to switching power converters

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Power Electronics for Photovoltaic Power Systems Mahinda Vilathgamuwa, Dulika Nayanasingi, Shantha Gamini, 2022-06-01 The world energy demand has been increasing in a rapid manner with the increase of population and rising standard of living The world population has nearly doubled in the last 40 years from 3.7 billion people to the present 7 billion people It is anticipated that world population will grow towards 8 billion around 2030 Furthermore the conventional fossil fuel supplies become unsustainable as the energy demand in emerging big economies such as China and India would rise tremendously where the China will increase its energy demand by 75% and India by 100% in the next 25 years With dwindling natural resources many countries throughout the world have increasingly invested in renewable resources such as photovoltaics PV and wind The world has seen immense growth in global photovoltaic power generation over the last few decades For example in Australia renewable resources represented

nearly 15% of total power generation in 2013 Among renewable resources solar and wind account for 38% of generation In near future energy in the domestic and industrial sector will become ubiquitous where consumers would have multiple sources to get their energy Another such prediction is that co location of solar and electrical storage will see a rapid growth in global domestic and industrial sectors conventional power companies which dominate the electricity market will face increasing challenges in maintaining their incumbent business models The efficiency reliability and cost effectiveness of the power converters used to interface PV panels to the mains grid and other types of off grid loads are of major concern in the process of system design This book describes state of the art power electronic converter topologies used in various PV power conversion schemes This book aims to provide a reader with a wide variety of topologies applied in different circumstances so that the reader would be able to make an educated choice for a given application

Dynamics and Control of DC-DC Converters Farzin Asadi, Kei Eguchi, 2022-05-31 DC DC converters have many applications in the modern world They provide the required power to the communication backbones they are used in digital devices like laptops and cell phones and they have widespread applications in electric cars to just name a few DC DC converters require negative feedback to provide a suitable output voltage or current for the load Obtaining a stable output voltage or current in presence of disturbances such as input voltage changes and or output load changes seems impossible without some form of control This book tries to train the art of controller design for DC DC converters Chapter 1 introduces the DC DC converters briefly It is assumed that the reader has the basic knowledge of DC DC converter i e a basic course in power electronics The reader learns the disadvantages of open loop control in Chapter 2 Simulation of DC DC converters with the aid of Simulink is discussed in this chapter as well Extracting the dynamic models of DC DC converters is studied in Chapter 3 We show how MATLAB and a software named KUCA can be used to do the cumbersome and error prone process of modeling automatically Obtaining the transfer functions using PSIM is studied as well These days softwares are an integral part of engineering sciences Control engineering is not an exception by any means Keeping this in mind we design the controllers using MATLAB in Chapter 4 Finally references are provided at the end of each chapter to suggest more information for an interested reader The intended audiences for this book are practice engineers and academicians

Computer Techniques for Dynamic Modeling of DC-DC Power Converters Farzin Asadi, 2022-06-01 Computers play an important role in the analyzing and designing of modern DC DC power converters This book shows how the widely used analysis techniques of averaging and linearization can be applied to DC DC converters with the aid of computers Obtained dynamical equations may then be used for control design The book is composed of two chapters Chapter 1 focuses on the extraction of control to output transfer function A second order converter a buck converter and a fourth order converter a Zeta converter are studied as illustrative examples in this chapter Both ready to use software packages such as PLECS and MATLAB programming are used through this chapter The input output characteristics of DC DC converters are the object of considerations in Chapter 2 Calculation of input output

impedance is done with the aid of MATLAB programming in this chapter The buck buck boost and boost converter are the most popular types of DC DC converters and used as illustrative examples in this chapter This book can be a good reference for researchers involved in DC DC converters dynamics and control

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Digital Control In Power Electronics Synthesis Lectures On Power Electronics**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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