

Industrial Electronics And Control 1st Edition

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power electronic control in electrical systems fundamental concepts associated with the topic of power electronic control are covered alongside the latest equipment and devices new application areas and associated computer assisted methods a practical guide to the control of reactive power systems ideal for postgraduate and professional courses covers the latest equipment and computer aided analysis

power electronics systems are physical devices that can be modelled mathematically as controlled dynamical systems this makes them suitable for the application of existing control theory particularly in the design of their regulatory subsystems for years there has been a perceived need to bring the disciplines of power electronics and theoretical control into closer co operation demonstrating the potentially great advantages of at first sight rather obscure control theory to power specialists while making control technicians better aware of the fundamental needs and limitations of power electronics design control design techniques in power electronics devices deals specifically with control theories relevant to the design of control units for switched power electronics devices for the most part represented by dc dc converters and supplies by rectifiers of different kinds and by inverters with varying topologies the theoretical methods for designing controllers in linear and nonlinear systems are accompanied by multiple case studies and examples showing their application in the emerging field of power electronics the book is introduced through the very important topic of modeling switched power electronics as controlled dynamical systems detailed circuit layouts schematics and actual closed loop control responses from a representative group of the plants under discussion and generated by applying the theory are included the control theories which feature in the book are sliding mode control and feedback control by means of approximate linearization linear state feedback static and dynamic proportional integral differential pid control output feedback through observer design lyapunov based control and passivity based control nonlinear control design methods represented include exact feedback linearization input output linearization differential flatness generalized pid control and again passivity based control this monograph will be of interest to researchers in power systems and their related control problems it will also assist tutors and students in these fields with its dydactic style and

its rich source of worked out application examples from a broad spectrum of control theories

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within this book the fundamental concepts associated with the topic of power electronic control are covered alongside the latest equipment and devices new application areas and associated computer assisted methods a practical guide to the control of reactive power systems ideal for postgraduate and professional courses covers the latest equipment and computer aided analysis

this textbook will help you learn all the skills you need to pass all vehicle electrical and electronic systems courses and qualifications as electrical and electronic systems become increasingly more complex and fundamental to the workings of modern vehicles understanding these systems is essential for automotive technicians for students new to the subject this book will help to develop this knowledge but will also assist experienced technicians in keeping up with recent technological advances this new edition includes information on developments in pass through technology multiplexing

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digital control in power electronics presents students of electrical engineering a basic introduction to typical power converter control problems their digital solutions and the most widespread digital control techniques although the presentation has been limited to a single converter topology the half bridge voltage source inverter the control topics represent a significant spectrum of the more frequently encountered digital control applications in power electronics authors paolo mattavelli and simone buso introduce the reader to basic control problems in power electronic circuits in order to illustrate widely applied digital solutions to these problems they also aim to raise students awareness of discrete time control theory stimulating new developments in its application to power converters

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