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Real-Time Digital Signal ProcessingMATLABApplied Intelligent Control of Induction Motor DrivesSystematic Design for Optimisation of Pipelined ADCsEmbedded Computing and Mechatronics with the PIC32 MicrocontrollerAn Introduction to Mixed-signal IC Test and MeasurementHandbook of Position LocationSpacecraft SensorsDesign, Implementation and Testing of a Hybrid Algorithmic [sigma Delta] A/D ConverterSimulation and Analysis of Modern Power SystemsEnergy Scalable Analog-to-digital Conversion Using Passive Sigma-delta ModulatorsProceedings2003 IEEE Nuclear Science SymposiumCERN.Proceedings of the ... IEEE Instrumentation and Measurement Technology ConferenceDesign of a Passive Sonar System for the Cornell University Autonomous Underwater Vehicle ProjectThe ... IEEE Asia Pacific Conference on ASICsIEEE Transactions on Circuits and SystemsIEEE International Geoscience and Remote Sensing Symposium ProceedingsIEEE Instrumentation and Measurement Technology Conference Proceedings Sen M. Kuo Vasilios Katsikis Tze Fun Chan Jo🅐o Goes Kevin Lynch Gordon W. Roberts Reza Zekavat Mohamed M. Abid Cheong Kun Ranjana Sodhi Jeffrey Loo Institut de recherches subatomiques de Strasbourg Rives W. Borland Real-Time Digital Signal Processing MATLAB Applied Intelligent Control of Induction Motor Drives Systematic Design for Optimisation of Pipelined ADCs Embedded Computing and Mechatronics with the PIC32 Microcontroller An Introduction to Mixed-signal IC Test and Measurement Handbook of Position Location Spacecraft Sensors Design, Implementation and Testing of a Hybrid Algorithmic [sigma Delta] A/D Converter Simulation and Analysis of Modern Power Systems Energy Scalable Analog-to-digital Conversion Using Passive Sigma-delta Modulators Proceedings 2003 IEEE Nuclear Science Symposium CERN. Proceedings of the ... IEEE Instrumentation and Measurement Technology Conference Design of a Passive Sonar System for the Cornell University Autonomous Underwater Vehicle Project The ... IEEE Asia Pacific Conference on ASICs IEEE Transactions on Circuits and Systems IEEE International Geoscience and Remote Sensing Symposium Proceedings IEEE Instrumentation and Measurement Technology Conference Proceedings *Sen M. Kuo Vasilios Katsikis Tze Fun Chan Jo🅐o Goes Kevin Lynch Gordon W. Roberts Reza Zekavat Mohamed M. Abid Cheong Kun Ranjana Sodhi Jeffrey Loo Institut de recherches subatomiques de Strasbourg Rives W. Borland*

real time digital signal processing implementations and applications has been completely updated and revised for the 2nd edition and remains the only book on dsp to provide an overview of dsp theory and programming with hands on experiments using matlab c and the newest fixed point processors from texas instruments ti

this excellent book represents the second part of three volumes regarding matlab based applications in almost every branch of science the present textbook contains a collection of 13 exceptional articles

in particular the book consists of three sections the first one is devoted to electronic engineering and computer science the second is devoted to matlab simulink as a tool for engineering applications the third one is about telecommunication and communication systems and the last one discusses matlab toolboxes

induction motors are the most important workhorses in industry they are mostly used as constant speed drives when fed from a voltage source of fixed frequency advent of advanced power electronic converters and powerful digital signal processors however has made possible the development of high performance adjustable speed ac motor drives this book aims to explore new areas of induction motor control based on artificial intelligence ai techniques in order to make the controller less sensitive to parameter changes selected ai techniques are applied for different induction motor control strategies the book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations the control strategies explored include expert system based acceleration control hybrid fuzzy pi two stage control neural network based direct self control and genetic algorithm based extended kalman filter for rotor speed estimation there are also chapters on neural network based parameter estimation genetic algorithm based optimized random pwm strategy and experimental investigations a chapter is provided as a primer for readers to get started with simulation studies on various ai techniques presents major artificial intelligence techniques to induction motor drives uses a practical simulation approach to get interested readers started on drive development authored by experienced scientists with over 20 years of experience in the field provides numerous examples and the latest research results simulation programs available from the book s companion website this book will be invaluable to graduate students and research engineers who specialize in electric motor drives electric vehicles and electric ship propulsion graduate students in intelligent control applied electric motion and energy as well as engineers in industrial electronics automation and electrical transportation will also find this book helpful simulation materials available for download at wiley com go chanmotor

systematic design for optimisation of pipelined adcs proposes and develops new strategies methodologies and tools for designing low power and low area cmos pipelined a d converters the task is tackled by following a scientifically consistent approach first of all the state of the art in pipeline a d converters is analysed with a double purpose a to identify the best suited among different strategies reported in literature and taking into account the objectives pursued b to identify the drawbacks of these strategies as a basic first step to improve them then the book proposes a top down design approach for implementing high performance low power and low area cmos pipelined a d converters through the conception development and implementation of self calibrated techniques to extend the linearity of some critical stages in the architecture of pipelined adcs the detailed analysis and modelling of some major non idealities that limit the physical realisation of pipelined adcs and the proposal development and implementation of design methodologies to support systematic design of optimised instances of these converters which combine maximum performance with minimum power dissipation and minimum area occupation list several implementations together with consistent

measured results are presented in particular a practical realisation of a low power 14 bit 5ms s cmos pipelined adc with background analogue self calibration is fully described the proposed approach is fully in line with the best practice regarding the design of mixed signal integrated circuits on the one hand drawbacks of currently existing solutions are overcame through innovative strategies and on the other hand the expert knowledge is packaged and made available for re usability by the community of circuit designers finally feasibility of the strategies and the associated encapsulated knowledge isgranted through experimental validation of working silicon systematic design for optimisation of pipelined adcs serves as an excellent reference for analogue design engineers especially designers of low power cmos a d converters the book may also be used as a text for advanced reading on the subject

for the first time in a single reference this book provides the beginner with a coherent and logical introduction to the hardware and software of the pic32 bringing together key material from the pic32 reference manual data sheets xc32 c compiler user s guide assembler and linker guide mips32 cpu manuals and harmony documentation this book also trains you to use the microchip documentation allowing better life long learning of the pic32 the philosophy is to get you started quickly but to emphasize fundamentals and to eliminate magic steps that prevent a deep understanding of how the software you write connects to the hardware applications focus on mechatronics microcontroller controlled electromechanical systems incorporating sensors and actuators to support a learn by doing approach you can follow the examples throughout the book using the sample code and your pic32 development board the exercises at the end of each chapter help you put your new skills to practice coverage includes a practical introduction to the c programming language getting up and running quickly with the pic32 an exploration of the hardware architecture of the pic32 and differences among pic32 families fundamentals of embedded computing with the pic32 including the build process time and memory efficient programming and interrupts a peripheral reference with extensive sample code covering digital input and output counter timers pwm analog input input capture watchdog timer and communication by the parallel master port spi i2c can usb and uart an introduction to the microchip harmony programming framework essential topics in mechatronics including interfacing sensors to the pic32 digital signal processing theory of operation and control of brushed dc motors motor sizing and gearing and other actuators such as stepper motors rc servos and brushless dc motors for more information on the book and to download free sample code please visit nu32 org extensive freely downloadable sample code for the nu32 development board incorporating the pic32mx795f512h microcontroller free online instructional videos to support many of the chapters

with the proliferation of complex semiconductor devices containing digital analog mixed signal and radio frequency circuits the economics of test has come to the forefront and today s engineer needs to be fluent in all four circuit types having access to a book that covers these topics will help the evolving test engineer immensely and will be an invaluable resource in addition the second edition includes lengthy discussion on rf circuits high speed i os and probabilistic reasoning appropriate for

the junior senior university level this textbook includes hundreds of examples exercises and problems

radio systems capable of localization have emerging applications in homeland security law enforcement emergency response defense command and control multi robot coordination and vehicle to vehicle and vehicle to pedestrian collision avoidance in fact high resolution localization is vital for many applications including traffic alert emergency services e g indoor localization for firefighters and battlefield command and control these systems promise to dramatically reduce society s vulnerabilities to catastrophic events and improve its quality of of life while work this important area is progressing limited resources are available to support graduate students and researchers in this important area specifically a limited number of books has been published in this area covering selected subjects this comprehensive handbook offers gaps of available localization books presenting in depth coverage from fundamentals of coordinates to advanced application examples

spacecraft sensors the first of its kind offers a comprehensive review of many aspects and intricacies of sensors used in the spacecraft industry it covers sensor development from concept design and cost to building testing interfacing integrating and on orbit operation it is intended for the specialist or non specialist engineer scientist and those involved in the business aspect of the spacecraft industry focusing on how these various disciplines contribute to the development of a sensor used in space this key text explains how mathematics physics business and engineering based concepts are used to develop and design a sensor which complies with a set of specific requirements discusses essential topics such as cost estimation signal processing noise reduction filters phased arrays radars optics and radiometers used in space operation covers a range of typical sensors used in the spacecraft industry such as infrared passive microwave radars and spacebased gps sensors concludes each chapter with examples of past and current orbiting sensors such as dsp sbirs champ landsat and goes to illustrate how concepts are applied includes the matlab codes used to create the example plots in order to give the reader a starting point for further analysis spacecraft sensors is an invaluable resource for engineers technical consultants those in the business division and research scientists associated with spacecraft projects it is also an excellent textbook for undergraduate and postgraduate students studying the development design and applications of spacebased sensors

publisher s note products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product master the modeling analysis and simulation of today s power systems this comprehensive textbook discusses all the major modelling and simulation tools and techniques that a power engineer needs and explains how those tools can be applied to modern power systems the applications include loadflow studies contingency analysis transient and voltage stability studies state estimation and phasor estimation studies co simulation studies written by a recognized expert in the field simulation and analysis of modern power systems contains real world examples worked out in matlab psca and power world emtp and rtds you will get a thorough overview of power system fundamentals and learn step by step how to efficiently emulate and analyze the myriad components of modern power systems the

book introduces the most state of the art power simulation tool available today the real time digital simulator rtds and its hardware in loop hil capabilities explains how each technique is used in many essential applications introduces the real time digital simulator rtds and its hardware in loop hil capabilities written by a power systems expert and experienced educator

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