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ACSP
Analog Circuits And Signal Processing

Ultra Low Power Capacitive Sensor Interfaces

 Springer

Ultra Low Power Capacitive Sensor Interfaces Analog Circuits And Signal Processing

Xiaolong Qi



Ultra Low Power Capacitive Sensor Interfaces Analog Circuits And Signal Processing:

Ultra Low Power Capacitive Sensor Interfaces Wouter Bracke,Robert Puers,Chris Van Hoof,2007-06-15 The increasing performance of smart microsystems merging sensors signal processing and wireless communication promises to have a pervasive impact during the coming decade These autonomous microsystems nd applications in sport evaluation health care environmental monitoring and automotive s tems They gather data from the physical world convert them to electrical form compensate for interfering variables or non linearities and either act rectly on them or transfer it to other systems Most often these sensor systems are developed for a speci c application This approach leads to a high rec rent design cost A generic front end architecture where only the sensors and the microcontroller software are customized to the selected application would reduce the costs signi cantly This work presents a new generic architecture for autonomous sensor nodes The modular design methodology provides a exible way to build a complete sensor interface out of con gurable blocks The settings of these blocks can be optimized according to the varying needs of the application Furthermore the system can easily be expanded with new building blocks The modular system is illustrated in a Generic Sensor Interface Chip GSIC for capa tive sensors Many con guration settings adapt the interface to a broad range of applications The GSIC is optimized for ultra low power consumption It achieves an ON state current consumption of 40 A

Substrate Noise Coupling in RFICs Ahmed Helmy,Mohammed Ismail,2008-03-23 The book reports modeling and simulation techniques for substrate noise coupling effects in RFICs and introduces isolation structures and design guides to mitigate such effects with the ultimate goal of enhancing the yield of RF and mixed signal SoCs The book further reports silicon measurements and new test and noise isolation structures To the authors knowledge this is the first title devoted to the topic of substrate noise coupling in RFICs as part of a large SoC

Smart Sensor Interfaces Johan Huijsing,Gerard C.M. Meijer,2012-12-06 Smart Sensor Interfaces brings together in one place important contributions and up to date research results in this fast moving area Smart Sensor Interfaces serves as an excellent reference providing insight into some of the most challenging research issues in the field

Circuit and Interconnect Design for RF and High Bit-rate Applications Hugo Veenstra,John R. Long,2008-06-04 Realizing maximum performance from high bit rate and RF circuits requires close attention to IC technology circuit to circuit interconnections i e the interconnect and circuit design This detailed book covers each of these topics from theory to practice with sufficient detail to help you produce circuits that are first time right Many practical circuit examples are included to demonstrate the interplay between technology interconnect and circuit design

High-Level Modeling and Synthesis of Analog Integrated Systems Ewout S. J. Martens,Georges Gielen,2008-01-03 As the miniaturization of semiconductor technology continues electronic s tems on chips o er a more extensive and more complex functionality with better performance higher frequencies and less power consumption Whereas digital designers can take full advantage of the availability of design auto tiontoolstobuildhugesystems thelackofsupportbycomputerprogramsfor di erent

abstraction levels makes analog design a time consuming handcraft which limits the possibilities to implement large systems. Various approaches for finding optimal values for the parameters of analog cells like opamps have been investigated since the mid 1980s and they have made their entrance in commercial applications. However a larger impact on the performance is expected if tools are developed which operate on a higher abstraction level and consider multiple architectural choices to realize a particular functionality. In this book the opportunities, conditions, problems, solutions and systematic methodologies for this new generation of analog CAD tools are examined. The outline of this book is as follows: In the first part the characteristics of the analog design process are systematically analyzed and several approaches for automated analog synthesis are summarized. Comparison of their properties with the requirements for high level synthesis of analog and mixed signal systems results in a new design paradigm: the high level design now based on generic behavior. This design approach involves a modeling strategy using generic behavioral models and a synthesis strategy leading to the exploration of a heterogeneous design space containing different architectures. The modeling strategy is further elaborated in Part II.

Adaptive Multi-Standard RF Front-Ends Vojkan Vidojkovic, J. van der Tang, Arjan Leeuwenburgh, Arthur H.M. van Roermund, 2008-02-07. In this information era people are living in a society in which processing and exchange of information are vital for their existence. Two major issues in such society which are related to flow and exchange of information are connectivity and mobility. On one hand computers and Internet provide connectivity and allow communication as well as fast access to large amounts of information. On the other hand wireless technologies bring mobility. People can move and still be able to communicate and have access to various kind of information. Therefore the functioning of an information society is unthinkable without the use of computers, Internet and wireless technologies. The expectations are that in the future they will merge into a unique system for communication, access to information as well as their exchange and processing. The era of wireless communications started in 1901 when Guglielmo Marconi successfully transmitted radio signals across the Atlantic Ocean. From that moment up to now wireless communications experienced explosive growth and became the fastest growing field in the engineering world. Pushed by customer requirements new wireless technologies have been emerging very fast. Each new generation of wireless technologies have brought new features and more complexity. Pushed by market forces to reduce costs the semiconductor industry has provided new technologies for solid state circuits implementation. Fortunately at the same time with the cost reduction performance of new technologies has been improving.

Energy Autonomous Micro and Nano Systems Marc Belleville, Cyril Condemine, 2012-12-17. Providing a detailed overview of the fundamentals and latest developments in the field of energy autonomous microsystems this book delivers an in depth study of the applications in the fields of health and usage monitoring in aeronautics, medical implants and home automation drawing out the main specifications on such systems. Introductory information on photovoltaic, thermal and mechanical energy harvesting and conversion is given along with the latest results in these fields. This book also provides a state of the art of ultra low power sensor interfaces, digital signal

processing and wireless communications In addition energy optimizations at the sensor node and sensors network levels are discussed thus completing this overview This book details the challenges and latest techniques available to readers who are interested in this field A major strength of this book is that the first three chapters are application orientated and thus by setting the landscape introduce the technical chapters There is also a good balance between the technical application covering all the system related aspects and within each chapter details on the physics materials and technologies associated with electronics

CMOS Multichannel Single-Chip Receivers for Multi-Gigabit Optical Data Communications Paul Muller, Yusuf Leblebici, 2007-10-29 In the world of optical data communications this book will be an absolute must read It focuses on optical communications for short and very short distance applications and discusses the monolithic integration of optical receivers with processing elements in standard CMOS technologies What s more it provides the reader with the necessary background knowledge to fully understand the trade offs in short distance communication receiver design and presents the key issues to be addressed in the development of such receivers in CMOS technologies Moreover novel design approaches are presented

Design of High Voltage xDSL Line Drivers in Standard CMOS Bert Serneels, Michiel Steyaert, 2008-01-08 Design of high voltage xDSL line drivers in standard CMOS fits in the quest for highly efficient fully integrated xDSL modems for central office applications The book focusses on the line driver the most demanding building block of the xDSL modem for lowering power To reduce the cost the cheapest technology is selected standard CMOS without any extra process options to increase the nominal supply voltage The emphasis lies on the analysis design and implementation of high voltage highly efficient line drivers in mainstream CMOS Design of high voltage xDSL line drivers in standard CMOS covers the total design flow of monolithic CMOS high voltage circuits The book is essential reading for analog design engineers and researchers in the field and is also suitable as a text book for an advanced course on the subject

Sensors Bruno Andò, Francesco Baldini, Corrado Di Natale, Giovanna Marrazza, Pietro Siciliano, 2017-09-07 This book gathers the best papers presented at the Third Italian National Conference on Sensors held in Rome Italy from 23 to 25 February 2016 The book represents an invaluable and up to the minute tool providing an essential overview of recent findings strategies and new directions in the area of sensor research Further it addresses various aspects based on the development of new chemical physical or biological sensors assembling and characterization signal treatment and data handling Lastly the book applies electrochemical optical and other detection strategies to relevant issues in the food and clinical environmental areas as well as industry oriented applications

1997 IEEE Instrumentation and Measurement Technology Conference, 1997 Instrumentation and Measurement Technology and Applications Emil Petriu, 1998

Practical solutions to a range of instrumentation and measurement problems are presented in this volume It offers practical design engineers with technology and applications developments within this area

IEEE Transactions on Circuits and Systems, 2006 Electronics World, 2001 Solid-State Sensor and Actuator Workshop, Hilton Head Island, South

Carolina, June 3-6, 1996 ,1996 *Proceedings* ,2000 *ISLPED '00* ,2000 Encyclopedia of Medical Devices and Instrumentation, Capacitive Microsensors for Biomedical Applications - Drug Infusion Systems John G. Webster,2006-04-07

The articles in The Encyclopedia of Medical Devices and Instrumentation focus on what is currently useful or is likely to be useful in future medicine They answer the question What are the branches of medicine and how does technology assist each of them Articles focus on the practice of medicine that is assisted by devices rather than including for example the use of drugs to treat disease The title is the only resource on the market dealing with the subject in encyclopedic detail Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians Articles cover the latest developments such as nanotechnology fiber optics and signal processing Dissertation Abstracts International ,2001

Electrical & Electronics Abstracts ,1997

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