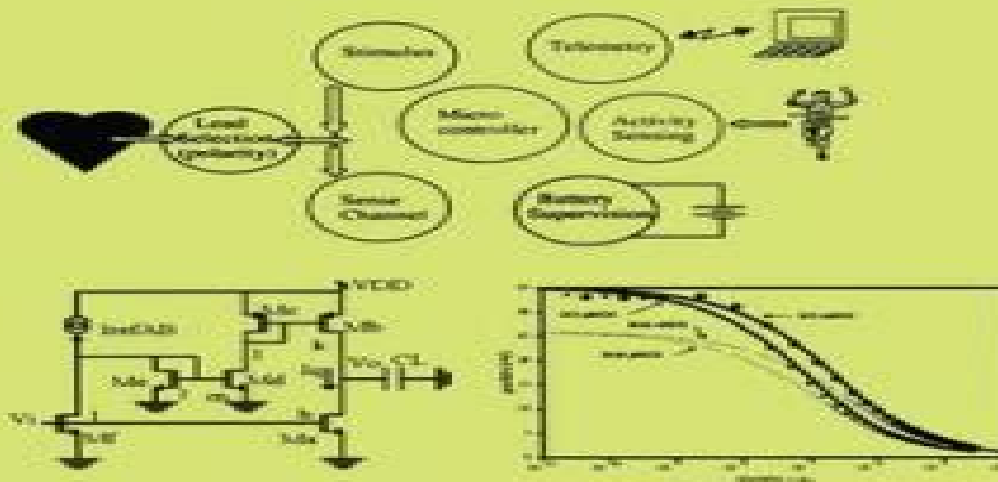


# LOW POWER ANALOG CMOS FOR CARDIAC PACEMAKERS

Design and Optimization in Bulk and  
SOI Technologies

Fernando Silveira and Denis Flandre



# Low Power Analog Cmos For Cardiac Pacemakers Des

**S Ashworth**



### **Low Power Analog Cmos For Cardiac Pacemakers Des:**

Low Power Analog CMOS for Cardiac Pacemakers Fernando Silveira, Denis Flandre, 2013-03-09 Low Power Analog CMOS for Cardiac Pacemakers proposes new techniques for the reduction of power consumption in analog integrated circuits Our main example is the pacemaker sense channel which is representative of a broader class of biomedical circuits aimed at qualitatively detecting biological signals The first and second chapters are a tutorial presentation on implantable medical devices and pacemakers from the circuit designer point of view This is illustrated by the requirements and solutions applied in our implementation of an industrial IC for pacemakers There from the book discusses the means for reduction of power consumption at three levels base technology power oriented analytical synthesis procedures and circuit architecture

**Low-Power Deep Sub-Micron CMOS Logic** P. van der Meer, A. van Staveren, Arthur H.M. van Roermund, 2012-12-06 1 Power dissipation trends in CMOS circuits Shrinking device geometry growing chip area and increased data processing speed performance are technological trends in the integrated circuit industry to enlarge chip functionality Already in 1965 Gordon Moore predicted that the total number of devices on a chip would double every year until the 1970s and every 24 months in the 1980s This prediction is widely known as Moore's Law and eventually culminated in the Semiconductor Industry Association SIA technology road map 1 The SIA road map has been a guide for the industry leading them to continued wafer and die size growth increased transistor density and operating frequencies and defect density reduction To mention a few numbers the die size increased 7% per year the smallest feature sizes decreased 30% and the operating frequencies doubled every two years As a consequence of these trends both the number of transistors and the power dissipation per unit area increase In the near future the maximum power dissipation per unit area will be reached Down scaling of the supply voltage is not only the most effective way to reduce power dissipation in general it also is a necessary precondition to ensure device reliability by reducing electrical fields and device temperature to prevent device degradation A drawback of this solution is an increased signal propagation delay which results in a lower data processing speed performance

**Low-Power Low-Voltage Sigma-Delta Modulators in Nanometer CMOS** Libin Yao, Michiel Steyaert, Willy M. C. Sansen, 2006-02-06 this book is not suitable for the bookstore catalogue *LNA-ESD Co-Design for Fully Integrated CMOS Wireless Receivers* Paul Leroux, Michiel Steyaert, 2006-03-30 LNA ESD Co Design for Fully Integrated CMOS Wireless Receivers fits in the quest for complete CMOS integration of wireless receiver front ends With a combined discussion of both RF and ESD performance it tackles one of the final obstacles on the road to CMOS integration The book is conceived as a design guide for those actively involved in the design of CMOS wireless receivers The book starts with a comprehensive introduction to the performance requirements of low noise amplifiers in wireless receivers Several popular topologies are explained and compared with respect to future technology and frequency scaling The ESD requirements are introduced and related to the state of the art protection devices and circuits LNA ESD Co Design for Fully Integrated CMOS Wireless

Receivers provides an extensive theoretical treatment of the performance of CMOS low noise amplifiers in the presence of ESD protection circuitry. The influence of the ESD protection parasitics on noise figure, gain, linearity and matching are investigated. Several RF ESD co design solutions are discussed allowing both high RF performance and good ESD immunity for frequencies up to and beyond 5 GHz. Special attention is also paid to the layout of both active and passive components. LNA ESD Co Design for Fully Integrated CMOS Wireless Receivers offers the reader intuitive insight in the LNA's behavior as well as the necessary mathematical background to optimize its performance. All material is experimentally verified with several CMOS implementations among which a fully integrated GPS receiver front end. The book is essential reading for RF design engineers and researchers in the field and is also suitable as a text book for an advanced course on the subject.

Smart Adaptive Systems on Silicon Maurizio Valle, 2013-06-05. Intelligent smart systems have become common practice in many engineering applications. On the other hand, current low cost standard CMOS technology and future foreseeable developments make available enormous potentialities. The next breakthrough will be the design and development of smart adaptive systems on silicon, i.e. very power and highly size efficient complete systems, i.e. sensing, computing and actuating actions with intelligence on board on a single silicon die. Smart adaptive systems on silicon will be able to adapt autonomously to the changing environment and will be able to implement intelligent behaviour and both perceptual and cognitive tasks. At last, they will communicate through wireless channels; they will be battery supplied or remote powered via inductive coupling and they will be ubiquitous in our every day life. Although many books deal with research and engineering topics, i.e. algorithms, technology implementations etc., few of them try to bridge the gap between them and to address the issues related to feasibility, reliability and applications. *Smart Adaptive Systems on Silicon* though not exhaustive, tries to fill this gap and to give answers mainly to the feasibility and reliability issues. *Smart Adaptive Systems on Silicon* mainly focuses on the analog and mixed mode implementation on silicon because this approach is amenable of achieving impressive energy and size efficiency. Moreover, analog systems can be more easily interfaced with sensing and actuating devices. *Design of Very High-Frequency Multirate Switched-Capacitor Circuits* Seng-Pan U, Rui Paulo Martins, José Epifânio da Franca, 2006. *Design of Very High Frequency Multirate Switched Capacitor Circuits* presents the theory and the corresponding CMOS implementation of the novel multirate sampled data analog interpolation technique which has its great potential on very high frequency analog front end filtering due to its inherent dual advantage of reducing the speed of data converters and DSP core together with the specification relaxation of the post continuous time filtering. This technique completely eliminates the traditional phenomenon of sampled and hold frequency shaping at the lower input sampling rate. Also, in order to tackle physical IC imperfections at very high frequency, the state of the art circuit design and layout techniques for high speed Switched Capacitor SC circuits are comprehensively discussed. Optimum circuit architecture tradeoff analysis, Simple speed and power trade off analysis of active elements, High order filtering response accuracy with respect to capacitor ratio

mismatches Time interleaved effect with respect to gain and offset mismatch Time interleaved effect with respect to timing skew and random jitter with non uniformly holding Stage noise analysis and allocation scheme Substrate and supply noise reduction Gain and offset compensation techniques High bandwidth low power amplifier design and layout Very low timing skew multiphase generation Two tailor made optimum design examples in CMOS are presented The first one achieves a 3 stage 8 fold SC interpolating filter with 5 5MHz bandwidth and 108MHz output sampling rate for a NTSC PAL CCIR 601 digital video at 3 V Another is a 15 tap 57MHz SC FIR bandpass interpolating filter with 4 fold sampling rate increase to 320MHz and the first time embedded frequency band up translation for DDFS system at 2 5V The corresponding chip prototype achieves so far the highest operating frequency highest filter order and highest center frequency with highest dynamic range under the lowest supply voltage when compared to the previously reported high frequency SC filters in CMOS

### **Systematic Design of Sigma-Delta Analog-to-Digital Converters** Ovidiu Bajdechi,Johan Huijsing,2004-04-30

Systematic Design of Sigma Delta Analog to Digital Converters describes the issues related to the sigma delta analog to digital converters ADCs design in a systematic manner from the top level of abstraction represented by the filters defining signal and noise transfer functions STF NTF passing through the architecture level where topology related performance is calculated and simulated and finally down to parameters of circuit elements like resistors capacitors and amplifier transconductances used in individual integrators The systematic approach allows the evaluation of different loop filters order aggressiveness discrete time or continuous time implementation with quantizers varying in resolution Topologies explored range from simple single loops to multiple cascaded loops with complex structures including more feedbacks and feedforwards For differential circuits with switched capacitor integrators for discrete time DT loop filters and active RC for continuous time CT ones the passive integrator components are calculated and the power consumption is estimated based on top level requirements like harmonic distortion and noise budget This unified systematic approach to choosing the best sigma delta ADC implementation for a given design target yields an interesting solution for a high resolution broadband DSL like ADC operated at low oversampling ratio which is detailed down to transistor level schematics The target audience of Systematic Design of Sigma Delta Analog to Digital Converters are engineers designing sigma delta ADCs and or switched capacitor and continuous time filters both beginners and experienced It is also intended for students academics involved in sigma delta and analog CAD research

*CMOS PLL Synthesizers: Analysis and Design* Keliu Shu,Edgar

Sanchez-Sinencio,2006-01-20 Thanks to the advance of semiconductor and communication technology the wireless communication market has been booming in the last two decades It evolved from simple pagers to emerging third generation 3G cellular phones In the meanwhile broadband communication market has also gained a rapid growth As the market always demands hi performance and low cost products circuit designers are seeking hi integration communication devices in cheap CMOS technology The phase locked loop frequency synthesizer is a critical component in communication devices It works as

a local oscillator for frequency translation and channel selection in wireless transceivers and broadband cable tuners It also plays an important role as the clock synthesizer for data converters in the analog and digital signal interface This book covers the design and analysis of PLL synthesizers It includes both fundamentals and a review of the state of the art techniques The transient analysis of the third order charge pump PLL reveals its locking behavior accurately The behavioral level simulation of PLL further clarifies its stability limit Design examples are given to clearly illustrate the design procedure of PLL synthesizers A complete derivation of reference spurs in the charge pump PLL is also presented in this book The in depth investigation of the digital CA modulator for fractional N synthesizers provides insightful design guidelines for this important block

*Design of Wireless Autonomous Datalogger IC's* Wim Claes, Willy M Sansen, Robert Puers, 2006-03-30 Design of Wireless Autonomous Dataloggers IC s reveals the state of the art in the design of complex dataloggers with a special focus on low power consumption The emphasis is on autonomous dataloggers for stand alone applications with remote reprogrammability The book starts with a comprehensive introduction on the most important design aspects and trade offs for miniaturized low power telemetric dataloggers After the general introduction follows an in depth case study of an autonomous CMOS datalogger IC for the registration of in vivo loads on oral implants After tackling the design of the datalogger on the system level the design of the different building blocks is elaborated in detail with emphasis on low power A clear overview of the operation the implementation and the most important design considerations of the building blocks to achieve optimal system performance is given Design of Wireless Autonomous Dataloggers IC s discusses the design of correlated double sampling amplifiers and sample and holds binary weighted current steering DACs successive approximation ADCs and relaxation clock oscillators and can also be used as a manual for the design of these building blocks Design of Wireless Autonomous Dataloggers IC s covers the complete design flow of low power miniaturized autonomous dataloggers with a bi directional wireless link and on board data processing while providing detailed insight into the most critical design issues of the different building blocks It will allow you to design complex dataloggers faster It is essential reading for analog design engineers and researchers in the field of miniaturized dataloggers and is also suitable as a text for an advanced course on the subject

#### **Wideband Low Noise Amplifiers Exploiting Thermal Noise Cancellation**

Federico Bruccoleri, Eric Klumperink, Bram Nauta, 2006-03-30 Low Noise Amplifiers LNAs are commonly used to amplify signals that are too weak for direct processing for example in radio or cable receivers Traditionally low noise amplifiers are implemented via tuned amplifiers exploiting inductors and capacitors in resonating LC circuits This can render very low noise but only in a relatively narrow frequency band close to resonance There is a clear trend to use more bandwidth for communication both via cables e g cable TV internet and wireless links e g satellite links and Ultra Wideband Band Hence wideband low noise amplifier techniques are very much needed Wideband Low Noise Amplifiers Exploiting Thermal Noise Cancellation explores techniques to realize wideband amplifiers capable of impedance matching and still achieving a low

noise figure well below 3dB This can be achieved with a new noise cancelling technique as described in this book By using this technique the thermal noise of the input transistor of the LNA can be cancelled while the wanted signal is amplified The book gives a detailed analysis of this technique and presents several new amplifier circuits This book is directly relevant for IC designers and researchers working on integrated transceivers Although the focus is on CMOS circuits the techniques can just as well be applied to other IC technologies e g bipolar and GaAs and even in discrete component technologies

*Systematic Modeling and Analysis of Telecom Frontends and their Building Blocks* Piet Vanassche, Georges Gielen, Willy M Sansen, 2005-10-24 To meet the demands of today's highly competitive market analog electronics designers must develop their IC designs in a minimum of time The difference between first and second time right seriously affects a company's share of the market Analog designers are therefore in need for structured design methods together with the theory and tools to support them especially when pushing the performance limits in high performance designs *Systematic Modeling and Analysis of Telecom Frontends and Their Building Blocks* aims to help designers in speeding up telecommunication frontend design by offering an in depth understanding of the frontend's behavior together with methods and algorithms that support designers in bringing this understanding to practice The book treats topics such as time varying phase locked loop stability noise in mixing circuits oscillator injection locking oscillator phase noise behavior harmonic oscillator dynamics and many more In doing so it always starts from a theoretical foundation that is both rigorous and general Phase locked loop and mixer analysis for example are grounded upon a general framework for time varying small signal analysis Likewise analysis of harmonic oscillator transient behavior and oscillator phase noise analysis are treated as particular applications of a general framework for oscillator perturbation analysis In order to make the book as easy to read as possible all theory is always accompanied by numerous examples and easy to catch intuitive explanations As such the book is suited for both computer aided design engineers looking for general theories and methods either as background material or for practical implementation in tools as well as for practicing circuit designers looking for help and insight in dealing with a particular application or a particular high performance design problem

**Dynamic Characterisation of Analogue-to-Digital Converters** Dominique Dallet, José Machado da Silva, 2006-03-08 The Analogue to digital converter ADC is the most pervasive block in electronic systems With the advent of powerful digital signal processing and digital communication techniques ADCs are fast becoming critical components for system's performance and flexibility Knowing accurately all the parameters that characterise their dynamic behaviour is crucial on one hand to select the most adequate ADC architecture and characteristics for each end application and on the other hand to understand how they affect performance bottlenecks in the signal processing chain *Dynamic Characterisation of Analogue to Digital Converters* presents a state of the art overview of the methods and procedures employed for characterising ADCs dynamic performance behaviour using sinusoidal stimuli The three classical methods histogram sine wave fitting and spectral analysis are thoroughly described and new approaches are proposed to

circumvent some of their limitations This is a must have compendium which can be used by both academics and test professionals to understand the fundamental mathematics underlining the algorithms of ADC testing and as an handbook to help the engineer in the most important and critical details for their implementation

**Matching Properties of Deep Sub-Micron MOS Transistors** Jeroen A. Croon, Willy M Sansen, Herman E. Maes, 2006-06-20 Matching Properties of Deep Sub Micron MOS Transistors examines this interesting phenomenon Microscopic fluctuations cause stochastic parameter fluctuations that affect the accuracy of the MOSFET For analog circuits this determines the trade off between speed power accuracy and yield Furthermore due to the down scaling of device dimensions transistor mismatch has an increasing impact on digital circuits The matching properties of MOSFETs are studied at several levels of abstraction A simple and physics based model is presented that accurately describes the mismatch in the drain current The model is illustrated by dimensioning the unit current cell of a current steering D A converter The most commonly used methods to extract the matching properties of a technology are bench marked with respect to model accuracy measurement accuracy and speed and physical contents of the extracted parameters The physical origins of microscopic fluctuations and how they affect MOSFET operation are investigated This leads to a refinement of the generally applied 1 area law In addition the analysis of simple transistor models highlights the physical mechanisms that dominate the fluctuations in the drain current and transconductance The impact of process parameters on the matching properties is discussed The impact of gate line edge roughness is investigated which is considered to be one of the roadblocks to the further down scaling of the MOS transistor Matching Properties of Deep Sub Micron MOS Transistors is aimed at device physicists characterization engineers technology designers circuit designers or anybody else interested in the stochastic properties of the MOSFET

**Operational Amplifier Speed and Accuracy Improvement** Vadim V. Ivanov, Igor M. Filanovsky, 2005-12-30 Operational Amplifier Speed and Accuracy Improvement proposes a new methodology for the design of analog integrated circuits The usefulness of this methodology is demonstrated through the design of an operational amplifier This methodology consists of the following iterative steps description of the circuit functionality at a high level of abstraction using signal flow graphs equivalent transformations and modifications of the graph to the form where all important parameters are controlled by dedicated feedback loops and implementation of the structure using a library of elementary cells Operational Amplifier Speed and Accuracy Improvement shows how to choose structures and design circuits which improve an operational amplifier s important parameters such as speed to power ratio open loop gain common mode voltage rejection ratio and power supply rejection ratio The same approach is used to design clamps and limiting circuits which improve the performance of the amplifier outside of its linear operating region such as slew rate enhancement output short circuit current limitation and input overload recovery

**Wide-Bandwidth High Dynamic Range D/A Converters** Konstantinos Doris, Arthur H.M. van Roermund, Domine Leenaerts, 2006-01-12 IGH SPEED Digital to Analog D A converters are essential



components in digital communication systems providing the necessary conversion of signals encoding information in bits to signals encoding information in their amplitude vs time domain characteristics In general they are parts of a larger system the interface which consists of several signal conditioning circuits Dependent on where the converter is located within the chain of circuits in the interface signal processing operations are partitioned in those realized with digital techniques and those with analog The rapid evolution of CMOS technology has established implicit and explicit trends related to the interface and in particular to the D/A converter The implicit relationship comes via the growth of digital systems First it is a global trend with respect to all interface circuits that increasing operating frequencies of digital systems place a similar demand for the interface circuits The second trend takes place locally within the interface Initially the D/A converter was placed at the beginning of the interface chain and all signal conditioning was implemented in the analog domain after the D/A conversion The increasing flexibility and robustness of digital signal processing shifted the D/A converter closer to the end point of the chain where the demands for high quality high frequency operation are very high

**High-Speed Photodiodes in Standard CMOS Technology** Sasa Radovanovic, Anne-Johan Annema, Bram Nauta, 2006-10-11 High speed Photodiodes in Standard CMOS Technology describes high speed photodiodes in standard CMOS technology which allow monolithic integration of optical receivers for short haul communication For short haul communication the cost aspect is important and therefore it is desirable that the optical receiver can be integrated in the same CMOS technology as the rest of the system If this is possible then ultimately a single chip system including optical inputs becomes feasible eliminating EMC and crosstalk problems while data rate can be extremely high The problem of photodiodes in standard CMOS technology is that they have very limited bandwidth allowing data rates up to only 50Mbit per second High speed Photodiodes in Standard CMOS Technology first analyzes the photodiode behaviour and compares existing solutions to enhance the speed After this the book introduces a new and robust electronic equalizer technique that makes data rates of 3Gb/s possible without changing the manufacturing technology The application of this technique can be found in short haul fibre communication optical printed circuit boards but also photodiodes for laser disks

**Fundamentals of Nanotechnology** Gabor L. Hornyak, John J. Moore, H.F. Tibbals, Joydeep Dutta, 2018-12-14 WINNER 2009 CHOICE AWARD OUTSTANDING ACADEMIC TITLE Nanotechnology is no longer a subdiscipline of chemistry engineering or any other field It represents the convergence of many fields and therefore demands a new paradigm for teaching This textbook is for the next generation of nanotechnologists It surveys the field's broad landscape exploring the physical basics such as nanorheology nanofluidics and nanomechanics as well as industrial concerns such as manufacturing reliability and safety The authors then explore the vast range of nanomaterials and systematically outline devices and applications in various industrial sectors This color text is an ideal companion to Introduction to Nanoscience by the same group of esteemed authors Both titles are also available as the single volume Introduction to Nanoscience and Nanotechnology Qualifying instructors who purchase either of these volumes

or the combined set are given online access to a wealth of instructional materials These include detailed lecture notes review summaries slides exercises and more The authors provide enough material for both one and two semester courses

Introduction to Nanoscience and Nanotechnology Gabor L. Hornyak,H.F. Tibbals,Joydeep Dutta,John J. Moore,2008-12-22 The maturation of nanotechnology has revealed it to be a unique and distinct discipline rather than a specialization within a larger field Its textbook cannot afford to be a chemistry physics or engineering text focused on nano It must be an integrated multidisciplinary and specifically nano textbook The archetype of the modern nano textbook

**Calibration Techniques in Nyquist A/D Converters** Hendrik van der Ploeg,Bram Nauta,2006-09-13 This book analyses different A D converter architectures with an emphasis on the maximum achievable power efficiency It also provides an accessible overview of the state of the art in calibration techniques for Nyquist A D converters The calibration techniques presented are applicable to other analog to digital systems such as those applied in integrated receivers They allow implementation without introducing a speed or power penalty

**Sigma Delta A/D Conversion for Signal Conditioning** Kathleen Philips,Arthur H.M. van Roermund,2006-05-05 1 1 Background Moore s Law predicts a decrease by a factor of two in the feature size of CMOS technology every three years and has been valid for years It implies a doubling of the operation speed and a four times higher transistor count per unit of area every three years The combination leads to an eight times higher processing capability per unit of area This ongoing miniaturization allows the integration of complex electronic systems with millions of transistors Very Large Scale Integration and enables the integration of electronic systems An electronic system A generic picture of an integrated electronic system is shown in g 1 1 The heart of the system is the signal processing core This core supports a wide variety of functions such as customization and programmability of multiple applications channel coding the definition of the user interface etc These functions are enabled by DSP a controller CPU and various blocks of memory In advanced ICs these blocks provide almost all signal processing and usually dominate in the overall power and area consumption of integrated systems The huge data rates involved require high speed busses for communication between these blocks A power management unit fuels the system by providing the appropriate supply voltages and currents

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