

Paul Jespers

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model approaches



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The Gm Id Methodology A Sizing Tool For Low Voltage Analog Cmos Circuits The Semi Empirical And Compact Model Approaches

Paul Jespers



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The gm/ID Methodology, a sizing tool for low-voltage analog CMOS Circuits Paul Jespers, 2009-12-01 IC designers appraise currently MOS transistor geometries and currents to compromise objectives like gain bandwidth slew rate dynamic range noise non linear distortion etc Making optimal choices is a difficult task How to minimize for instance the power consumption of an operational amplifier without too much penalty regarding area while keeping the gain bandwidth unaffected in the same time Moderate inversion yields high gains but the concomitant area increase adds parasitics that restrict bandwidth Which methodology to use in order to come across the best compromise Is synthesis a mixture of design experience combined with cut and tries or is it a constrained multivariate optimization problem or a mixture Optimization algorithms are attractive from a system perspective of course but what about low voltage low power circuits requiring a more physical approach The connections amid transistor physics and circuits are intricate and their interactions not always easy to describe in terms of existing software packages The gm ID synthesis methodology is adapted to CMOS analog circuits for the transconductance over drain current ratio combines most of the ingredients needed in order to determine transistors sizes and DC currents

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CMOS Circuits for Electromagnetic Vibration Transducers Dominic Maurath, Yiannos Manoli, 2014-09-16 Chip integrated power management solutions are a must for ultra low power systems This enables not only the optimization of innovative sensor applications It is also essential for integration and miniaturization of energy harvesting supply strategies of portable and autonomous monitoring systems The book particularly addresses interfaces for energy harvesting which are the key element to connect micro transducers to energy storage elements Main features of the book are A comprehensive technology and application review basics on transducer mechanics fundamental circuit and control design prototyping and

testing up to sensor system supply and applications Novel interfacing concepts including active rectifiers MPPT methods for efficient tracking of DC as well as AC sources and a fully integrated charge pump for efficient maximum AC power tracking at sub 100 W ultra low power levels The chips achieve one of widest presented operational voltage range in standard CMOS technology 0.44V to over 4.1V Two special chapters on analog circuit design it studies benefits and obstacles on implemented chip prototypes with three goals ultra low power wide supply voltage range and integration with standard technologies Alternative design approaches are pursued using bulk input transistor stages in forward bias operation for amplifiers modulators and references Comprehensive Appendix with additional fundamental analysis design and scaling guidelines circuit implementation tables and dimensions schematics source code listings bill of material etc The discussed prototypes and given design guidelines are tested with real vibration transducer devices The intended readership is graduate students in advanced courses academics and lecturers R D engineers

Computational Intelligence in Analog and Mixed-Signal (AMS) and Radio-Frequency (RF) Circuit Design Mourad Fakhfakh, Esteban Tlelo-Cuautle, Patrick Siarry, 2015-07-14 This book explains the application of recent advances in computational intelligence algorithms design methodologies and synthesis techniques to the design of integrated circuits and systems It highlights new biasing and sizing approaches and optimization techniques and their application to the design of high performance digital VLSI radio frequency and mixed signal circuits and systems This first of two related volumes addresses the design of analog and mixed signal AMS and radio frequency RF circuits with 17 chapters grouped into parts on analog and mixed signal applications and radio frequency design It will be of interest to practitioners and researchers in computer science and electronics engineering engaged with the design of electronic circuits

Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation Jose L. Ayala, Braulio Garcia-Camara, Manuel Prieto, Martino Ruggiero, Gilles Sicard, 2011-09-15 This book constitutes the refereed proceedings of the 21st International Conference on Integrated Circuit and System Design PATMOS 2011 held in Madrid Spain in September 2011 The 34 revised full papers presented were carefully reviewed and selected from numerous submissions The paper feature emerging challenges in methodologies and tools for the design of upcoming generations of integrated circuits and systems and focus especially on timing performance and power consumption as well as architectural aspects with particular emphasis on modeling design characterization analysis and optimization

Wireless Power Transmission for Sustainable Electronics Nuno Borges Carvalho, Apostolos Georgiadis, 2020-02-19 Provides a collection of works produced by COST Action IC1301 with the goal of achieving significant advances in the field of wireless power transmission This book constitutes together information from COST Action IC1301 a group of academic and industry experts seeking to align research efforts in the field of wireless power transmission WPT It begins with a discussion of backscatter as a solution for Internet of Things IoT devices and goes on to describe ambient backscattering sensors that use FM broadcasting for low cost and low power wireless applications The book also explores localization of passive RFID tags and

augmented tags using nonlinearities of RFID chips It concludes with a review of methods of electromagnetic characterization of textile materials for the development of wearable antennas Wireless Power Transmission for Sustainable Electronics COST WiPE IC1301 covers textile supported wireless energy transfer and reviews methods for the electromagnetic characterization of textile materials for the development of wearable antennas It also looks at backscatter RFID sensor systems for remote health monitoring simultaneous localization of robots and objects and mapping SLAM autonomous system of wireless power distribution for static and moving nodes of wireless sensor networks and more Presents techniques for smart beam forming for on demand wireless power transmission WPT Discusses RF and microwave energy harvesting for space applications Describes miniaturized RFID transponders for object identification and sensing Wireless Power Transmission for Sustainable Electronics COST WiPE IC1301 is an excellent book for both graduate students and industry engineers involved in wireless communications and power transfer and sustainable materials for those fields

Innovations in Electrical and Electronics Engineering Akhtar Kalam, Saad Mekhilef, Sheldon S. Williamson, 2025-01-16 This book features selected high quality papers presented at the 2024 International Conference on Electrical and Electronics Engineering ICEEE 2024 jointly organized by ADSRS Education and Research and Swinburne University of Technology Melbourne Australia during September 11 12 2024 at Advanced Technologies Centre Swinburne University of Technology 427 451 Burwood Rd Hawthorn VIC 3122 The book covers electrical engineering topics power and energy including renewable energy power electronics and applications control and automation and instrumentation and book two covers the areas of robotics artificial intelligence and IoT electronics devices circuits and systems wireless and optical communication RF and microwaves VLSI and signal processing and others The book brings both single and multidisciplinary research on these topics to provide the most up to date information in one place The book offers an asset for researchers from both academia and industries involved in advanced studies

Swarm Intelligence for Electric and Electronic Engineering Fornarelli, Girolamo, 2012-12-31 With growing developments in artificial intelligence and focus on swarm behaviors algorithms have been utilized in solving a variety of problems in the field of engineering This approach has been specifically suited to face the challenges in electric and electronic engineering Swarm Intelligence for Electric and Electronic Engineering provides an exchange of knowledge on the advances discoveries and improvements of swarm intelligence in electric and electronic engineering This comprehensive collection aims to bring together new swarm based algorithms as well as approaches to complex problems and various real world applications

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