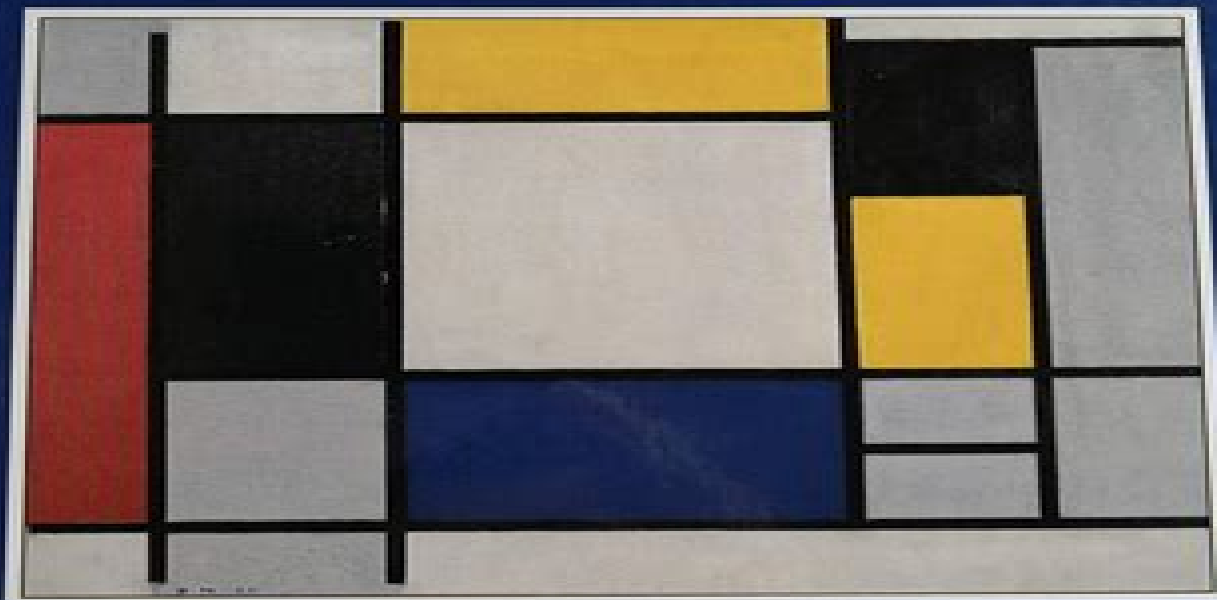


# DIGITAL INTEGRATED CIRCUITS

A DESIGN PERSPECTIVE



JAN M. RABAEY

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# Digital Integrated Circuits Jan M Rabaey

**Yi-Tong Ma**



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**Digital Integrated Circuits** Jan M. Rabaey, Anantha P. Chandrakasan, Borivoje Nikolić, 2003 Intended for use in undergraduate senior level digital circuit design courses with advanced material sufficient for graduate level courses Progressive in content and form this text successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design Beginning with solid discussions on the operation of electronic devices and in depth analysis of the nucleus of digital design the text maintains a consistent logical flow of subject matter throughout The revision addresses today s most significant and compelling industry topics including the impact of interconnect design for low power issues in timing and clocking design methodologies and the tremendous effect of design automation on the digital design perspective The revision reflects the ongoing evolution in digital integrated circuit design especially with respect to the impact of moving into the deep submicron realm *Digital integrated Circuits* ,1976 *Digital Integrated Circuits* Jan M. Rabaey, Anantha P. Chandrakasan, Borivoje Nikolić, 2008 **Digital Integrated Circuits** Jan M. Rabaey, 1996 Contemporary in content and form this practical book successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design Beginning with a solid foundation of the operation of electronic devices and an in depth analysis of the nucleus of digital design it maintains a consistent logical flow of subject matter throughout addressing today s most significant and compelling industry topics the effect of interconnect design for low power issues in timing and clocking design methodologies and the tremendous impact of design automation on the digital design perspective Discusses state of the art topics in design such as complex gates adders multipliers registers controllers and memories Focuses on practical design issues with examples design problems and case studies creating practical knowledge readers can readily apply in industrial design Offers perspectives on the future evolution of design practice at the end of each chapter to put issues discussed in a broader vision Includes many illustrations and reality based design problems to foster comprehension For professional engineers *Introduction to VLSI Circuits and Systems* John P. Uyemura, 2002 CD ROM contains AIM SPICE from AIM Software Micro Cap 6 from Spectrum Software Silos III Verilog Simulator from Simucad Adobe Acrobat Reader 4.0 from Adobe **AN INTRODUCTION TO VLSI DESIGN AND TESTING** P. Brundavani ,B. Abdul Raheem ,Rachapudi Prabahakar ,2025-05-20 VLSI Design and Testing provides a concise yet comprehensive guide to the design analysis and testing of integrated circuits Covering key topics such as IC types Moore s Law MOSFET and CMOS fabrication and SOI technology the book builds a strong foundation in VLSI principles It explores the design flow CMOS logic gates layout techniques and both static and dynamic logic circuits Readers will also learn about circuit performance parameters scaling theory and subsystem design including adders shifters and comparators The book concludes with essential concepts in VLSI design styles FPGA gate array full custom and CMOS testing including fault models ATPG and BIST Ideal for students and professionals it blends theory with practical design strategies in modern VLSI systems Visit

garuda publishers com      **Digital Integrated Circuits : Design Perspective(2<sup>nd</sup>)(Paperback)** Jan M. Rabaey,2012-01-01

*Design and Analysis of High Efficiency Line Drivers for xDSL* Tim Piessens,Michiel Steyaert,2005-12-30 Design and Analysis of High Efficiency Line Drivers for xDSL covers the most important building block of an xDSL ADSL VDSL system the line driver Traditional Class AB line drivers consume more than 70% of the total power budget of state of the art ADSL modems This book describes the main difficulties in designing line drivers for xDSL The most important specifications are elaborated starting from the main properties of the channel and the signal properties The traditional class AB state of the art class G and future technologies class K are discussed The main part of Design and Analysis of High Efficiency Line Drivers for xDSL describes the design of a novel architecture the Self Oscillating Power Amplifier or SOPA      **Modern VLSI**

**Design** Wayne Wolf,2002-01-14 For Electrical Engineering and Computer Engineering courses that cover the design and technology of very large scale integrated VLSI circuits and systems May also be used as a VLSI reference for professional VLSI design engineers VLSI design managers and VLSI CAD engineers Modern VLSI Design provides a comprehensive bottom up guide to the design of VLSI systems from the physical design of circuits through system architecture with focus on the latest solution for system on chip SOC design Because VLSI system designers face a variety of challenges that include high performance interconnect delays low power low cost and fast design turnaround time successful designers must understand the entire design process The Third Edition also provides a much more thorough discussion of hardware description languages with introduction to both Verilog and VHDL For that reason this book presents the entire VLSI design process in a single volume      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

*Current Sense Amplifiers for Embedded SRAM in High-Performance System-on-a-Chip Designs* Bernhard Wicht,2013-04-17 System on a chip SoC designs result in a wide range of high complexity high value semiconductor products As the technology scales towards smaller feature sizes and chips grow larger a speed limitation arises due to an increased RC delay associated with interconnection wires Innovative circuit techniques are required to achieve the speed needed for high performance signal processing Current sensing is considered as a promising circuit class since it is inherently faster than conventional voltage sense amplifiers However especially in SRAM current sensing has rarely been used so far Practi

cal implementations are challenging because they require sophisticated analog circuit techniques in a digital environment. The objective of this book is to provide a systematic and comprehensive insight into current sensing techniques. Both theoretical and practical aspects are covered. Design guidelines are derived by systematic analysis of different circuit principles. Innovative concepts like compensation of the bit line multiplexer and auto power down will be explained based on theory and experimental results. The material will be interesting for design engineers in industry as well as researchers who want to learn about and apply current sensing techniques. The focus is on embedded SRAM but the material presented can be adapted to single chip SRAM and to any other current providing memory type as well. This includes emerging memory technologies like magnetic RAM MRAM and Ovonic Unified Memory OUM. Moreover it is also applicable to array like structures such as CMOS camera chips and to circuits for signal transmission along highly capacitive busses.

**Computer Vision and Information Technology** K. V. Kale, S. C. Mehrotra, R. R. Manza, 2010. Spread in 133 articles divided in 20 sections. The present treatise broadly discusses Part 1 Image Processing Part 2 Radar and Satellite Image Processing Part 3 Image Filtering Part 4 Content Based Image Retrieval Part 5 Color Image Processing and Video Processing Part 6 Medical Image Processing Part 7 Biometric Part 8 Network Part 9 Mobile Computing Part 10 Pattern Recognition Part 11 Pattern Classification Part 12 Genetic Algorithm Part 13 Data Warehousing and Mining Part 14 Embedded System Part 15 Wavelet Part 16 Signal Processing Part 17 Neural Network Part 18 Nanotechnology and Quantum Computing Part 19 Image Analysis Part 20 Human Computer Interaction.

Digital Integrated Circuits, *IEEE Circuits & Devices*, 2006. *2003 IEEE Conference on Electron Devices and Solid-State Circuits*, 2003. The proceedings from the 2003 IEEE Conference on Electron Devices and Solid State Circuits.

Bibliographic Index, 1997. *Proceedings*, 2005. Electric Circuits James William Nilsson, Susan A. Riedel, 2005. *Proceedings of ASP-DAC/VLSI Design 2002*, 2002. Papers from a January 2002 conference are organized into four sessions each on low power design synthesis testing layout and interconnects and technology as well as two sessions each on embedded systems verification and VLSI architecture one session on analog design and one session on hot c.

Proceedings of the ASP-DAC ... Asia and South Pacific Design Automation Conference, 2002.

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