CHAPTER 1 INTRODUCTION

- 1.1 An ADD/SUBTRACT logic circuit is shown below. It performs the ADD operation for P = 0, and SUBTRACT for P = 1.
 - (a) Draw an equivalent CMOS logic diagram by noting that most CMOS gates, except for transmission gate and XOR, are inverting. For example, AND gate is implemented with NAND followed by an inverter.
 - (b) By using the gate array platform given on page 47, implement the CMOS circuit as compactly as possible with the aspect ratio, which is the ratio of vertical dimension to horizontal dimension, as close to 1 as possible.



Figure P14.1(a)

SOLUTION:

(b) The CMOS circuit implementation using the gate array platform:

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Chu, 2012-05-14 Explores the unique hardware programmability of FPGA based embedded systems using a learn by doing approach to introduce the concepts and techniques for embedded SoPC design with Verilog An SoPC system on a programmable chip integrates a processor memory modules I O peripherals and custom hardware accelerators into a single FPGA field programmable gate array device In addition to the customized software customized hardware can be developed and incorporated into the embedded system as well allowing us to configure the soft core processor create tailored I O interfaces and develop specialized hardware accelerators for computation intensive tasks Utilizing an Altera FPGA prototyping board and its Nios II soft core processor Embedded SoPC Design with Nios II Processor and Verilog Examples takes a learn by doing approach to illustrate the hardware and software design and development process by including realistic projects that can be implemented and tested on the board Emphasizing hardware design and integration throughout the book is divided into four major parts Part I covers HDL and synthesis of custom hardware Part II introduces the Nios II processor and provides an overview of embedded software development Part III demonstrates the design and development of hardware and software of several complex I O peripherals including a PS2 keyboard and mouse a graphic video controller an audio codec and an SD secure digital card Part IV provides several case studies of the integration of hardware accelerators including a custom GCD greatest common divisor circuit a Mandelbrot set fractal circuit and an audio synthesizer based on DDFS direct digital frequency synthesis methodology While designing and developing an embedded SoPC can be rewarding the learning can be a long and winding journey This book shows the trail ahead and guides readers through the initial steps to exploit the full potential of this emerging methodology FPGA Prototyping by VHDL Examples Pong P. Chu, 2011-09-20 This book uses a learn by doing approach to introduce the concepts and techniques of VHDL and FPGA to designers through a series of hands on experiments FPGA Prototyping by VHDL Examples provides a collection of clear easy to follow templates for quick code development a large number of practical examples to illustrate and reinforce the concepts and design techniques realistic projects that can be implemented and tested on a Xilinx prototyping board and a thorough exploration of Embedded Cryptographic Hardware Nadia Nedjah, Luiza de Macedo the Xilinx PicoBlaze soft core microcontroller Mourelle, 2005 Data security is an important requirement for almost all if not all information oriented applications such as e commerce digital signature secure Internet etc All these services use encrypted data Cryptography is a milliner science that was the key to the secret of ancient Rome and a fundamental piece in the Second World War Today it is a star in the computation world Several operating systems data base systems or simple filling systems provide the user with cryptographic functions that allow controlled data scrambling Modern cryptology which is the basis of information security techniques started in the late 1970 s and developed in the 1980 s As communication networks were spreading deep into society the need for secure communication greatly promoted cryptographic research The need for fast but secure cryptographic systems is growing bigger Therefore dedicated hardware for cryptography is becoming a key issue for

designers With the spread of reconfigurable hardware such as FPGAs hardware implementations of cryptographic algorithms became cost effective. The focus of this book is on all aspects of cryptographic hardware and embedded systems This includes design implementation and security of such systems. The content of this book is divided into four main parts each of which is organised in three chapters with the exception of the last one Exploring the Intricacies of Digital and Analog VLSI Guha, Koushik, Kandpal, Jyoti, Devi, Swagata, 2025-04-16 Advancements in Very Large Scale Integration VLSI technology are at the heart of modern electronic innovation enabling the integration of millions of transistors onto a single chip This field is essential for developing efficient high performance systems that power everything from smartphones to advanced computing technologies By addressing both digital and analog VLSI design this topic explores the challenges and solutions involved in optimizing power signal integrity and functionality The impact of VLSI extends across industries driving technological progress and shaping the future of electronics in an increasingly interconnected world Exploring the Intricacies of Digital and Analog VLSI explores advanced techniques practical applications and emerging trends in both digital and analog VLSI It consolidates existing knowledge while introducing cutting edge methodologies and insights shaping the trajectory of future research endeavors in VLSI This book covers topics such as electrical engineering optimization techniques and computer science and is a useful resource for engineers computer scientists academicians and researchers 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 staring 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 Analysis and Solutions for Switching Noise Coupling in Mixed-Signal ICs X. Aragones, J.L. Gonzalez, Antonio Rubio, 2013-03-09 Modern microelectronic design is characterized by the integration of full systems on a single die These systems often include large high performance digital circuitry high resolution analog parts high driving I O and maybe RF sections Designers of such systems are constantly faced with the challenge to achieve compatibility in electrical characteristics of every section some circuitry presents fast transients and large consumption spikes whereas others require quiet environments to achieve resolutions well beyond millivolts Coupling between those sections is usually unavoidable since the entire system shares the same silicon substrate bulk and the same package Understanding the way coupling is produced and knowing methods to isolate coupled circuitry and how to apply every method is then mandatory knowledge for every IC designer Analysis and Solutions for Switching Noise Coupling in Mixed Signal ICs is an in depth look at coupling through the common silicon substrate and noise at the power supply lines It explains the elementary knowledge needed to understand these phenomena and presents a review of previous works and new research results The aim is to provide an understanding of the reasons for these particular ways of coupling review and suggest solutions to noise coupling and provide criteria to apply noise reduction Analysis and Solutions for Switching Noise Coupling in Mixed Signal ICs is an ideal book both as introductory material to noise coupling problems in mixed signal ICs and for more advanced designers facing this problem

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