

CHAPTER 1 INTRODUCTION

- 1.1** An ADD/SUBTRACT logic circuit is shown below. It performs the ADD operation for $P = 0$, and SUBTRACT for $P = 1$.
- 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.
 - 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.

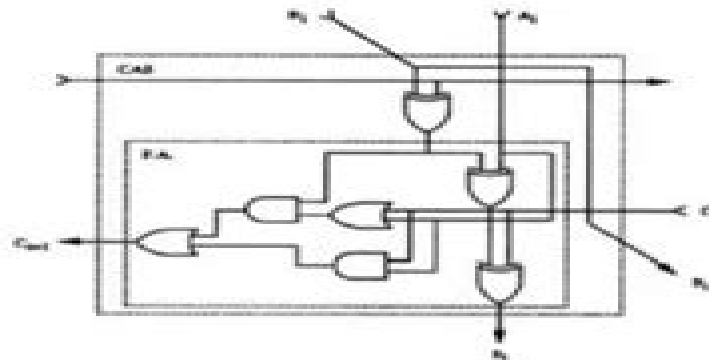


Figure P14.1(a)

SOLUTION:

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

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Jessica J Manson



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Solution Manual to Accompany CMOS Digital Integrated Circuits : Analysis and Design, Second Edition Sung-Mo Kang, Yusuf Leblebici, 1999 Solutions Manual for Digital Integrated Circuits Ayers John E, 2003-09 **Embedded SoPC Design with Nios II Processor and VHDL Examples** Pong P. Chu, 2011-08-29 The book is divided into four major parts Part I covers HDL constructs and synthesis of basic digital circuits Part II provides an overview of embedded software development with the emphasis on low level I O access and drivers Part III demonstrates the design and development of hardware and software for several complex I O peripherals including PS2 keyboard and mouse a graphic video controller an audio codec and an SD secure digital card Part IV provides three 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 The book utilizes FPGA devices Nios II soft core processor and development platform from Altera Co which is one of the two main FPGA manufactures Altera has a generous university program that provides free software and discounted prototyping boards for educational institutions details at www.altera.com/university The two main educational prototyping boards are known as DE1 99 and DE2 269 All experiments can be implemented and tested with these boards A board combined with this book becomes a turn key solution for the SoPC design experiments and projects Most HDL and C codes in the book are device independent and can be adapted by other prototyping boards as long as a board has similar I O configuration **Solutions Manual to Accompany Analysis and Design of Digital Integrated Circuits** David A. Hodges, Yu Chen, Horace G. Jackson, 1983 Embedded SoPC Design with Nios II Processor and Verilog Examples Pong P. 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 the Xilinx PicoBlaze soft core microcontroller **Embedded Cryptographic Hardware** Nadia Nedjah, Luiza de Macedo 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

Single-chip Bluetooth Solutions Sudepto Chakraborty, 2001 *Software Engineering Perspectives in Intelligent Systems* Radek Silhavy, Petr Silhavy, Zdenka Prokopova, 2020-12-15 This book constitutes the refereed proceedings of the 4th Computational Methods in Systems and Software 2020 CoMeSySo 2020 proceedings Software engineering computer science and artificial intelligence are crucial topics for the research within an intelligent systems problem domain The CoMeSySo 2020 conference is breaking the barriers being held online CoMeSySo 2020 intends to provide an international forum for the discussion of the latest high quality research results **Digital Integrated Circuits** DeMassa, 1996-02-01 **Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation** Vassilis Paliouras, Johan Vounckx, Diederik Verkest, 2005-08-25 Welcome to the proceedings of PATMOS 2005 the 15th in a series of international workshops PATMOS2005 was organized by IMEC with technical co sponsorship from the IEEE Circuits and Systems Society Over

the years PATMOS has evolved into an important European event where searchers from both industry and academia discuss and investigate the emerging challenges in future and contemporary applications design methodologies and tools required for the development of upcoming generations of integrated circuits and systems. The technical program of PATMOS 2005 contained state of the art technical contributions: three invited talks, a special session on hearing aid design and an embedded tutorial. The technical program focused on timing performance and power consumption as well as architectural aspects with particular emphasis on modeling, design characterization, analysis and optimization in the nanometer era. The Technical Program Committee, with the assistance of additional expert reviewers, selected the 74 papers to be presented at PATMOS. The papers were divided into 11 technical sessions and 3 poster sessions. As is always the case with the PATMOS workshops, the review process was anonymous: full papers were required and several reviews were carried out per paper. Beyond the presentations of the papers, the PATMOS technical program was enriched by a series of speeches offered by world class experts on important emerging research issues of industrial relevance. Prof. Jan Rabaey, Berkeley, USA, gave a talk on "Traveling the Wild Frontier of Ultra Low Power Design." Dr. Sung Bae Park, Seoul, gave a presentation on "DVL: Deep Low Voltage Circuits and Devices." Prof. **Proceedings of the 12th International Symposium on System Synthesis**, 1999. These proceedings cover real time and low power system design, performance issues in system design, memory design for embedded systems, architectural synthesis and system design methodologies. Proceedings of the IEEE 1987 Custom Integrated Circuits Conference, 1987. Solutions Manual Digital Integrated Circuits, CRC Press, 2009-07-10. Any textbook more than five years old simply won't do in digital integrated circuits as dynamic CMOS circuits have emerged to dominate the field. Providing a revised instructional text for engineers involved with Very Large Scale Integrated Circuit design and fabrication, this second edition delves into the dramatic advances including new applications and changes in the physics of operation made possible by relentless miniaturization. Each chapter includes numerous worked examples, case studies and SPICE computer simulations. The book's website offers supplementary material and more worked problems. Qualifying instructors will have access to a new instructor's manual. **Journal of Engineering Education**, 2001. **Proceedings of the ... Custom Integrated Circuits Conference**, 1987. **Integrated Circuit and System Design**, 2005. Digest of Technical Papers, 2001. **Solutions Manual for An Introduction to Digital and Analog Integrated Circuits and Applications**, Sanjit K. Mitra, Sanjit Kumar Mitra, 1981. **Proceedings of the ... International Conference on Microelectronics**, 2001.

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