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.

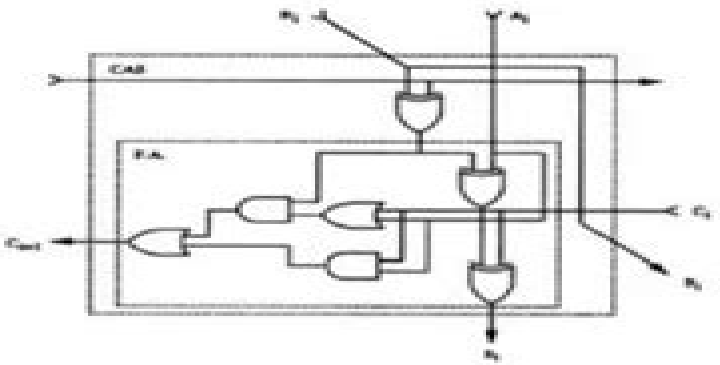

Figure P14.1(a)

SOLUTION:

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

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Solution Manual to Accompany CMOS Digital Integrated Circuits : Analysis and Design, Second Edition Sung-Mo Kang,Yusuf Leblebici,1999 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 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 *Solutions Manual for Digital Integrated Circuits* Ayers John E,2003-09 **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 PATMOS2005wasorganizedbyIMECwithtechnicalco sponsorshipfrom 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 ch lenges in future and contemporary applications design methodologies and tools quired for the developmentof upcominggenerationsof integrated circuits and systems The technical program of PATMOS 2005 contained state of the art technical contri tions three invited talks a special session on hearing aid design and an embedded torial The technical program focused on timing performance and power consumption as well as architectural aspects with particular emphasis on modeling design char terization analysis and optimization in the nanometer era The Technical Program Committee with the assistance of additional expert revi ers 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 riched 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 Ulta Low Power Design Dr Sung Bae Park S sung gave a presentation on DVL Deep Low Voltage Circuits and Devices Prof

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 **Integrated Circuit and System Design** ,2005 **Solutions Manual to Accompany Analysis and Design of Digital Integrated Circuits** David A. Hodges,Yu Chen,Horace G. Jackson,1983 Solution Manual James W. Mayer,S. S. Lau,1990 *15th Symposium on Integrated Circuits and Systems Design* Ricardo Augusto da Luz Reis,Ney Calazans,2002 *Digital Integrated Circuits* DeMassa,1996-02-01 *Forthcoming Books* Rose Arny,2002-02 **The Proceedings of the European Design Automation Conference** ,1990

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