

Chapter 3 SOLUTIONS

1) a) $I_D = \frac{V_{in} - 2V_{D0n}}{R_1 + R_2}$
 $= \frac{2.5 - 1.4}{4k\Omega} = \frac{1.1V}{4k\Omega}$

$I_D = 275\mu A$

b) $I_S = 10^{-14} A$, $T = 300K$, $V_{D0n} = 0.7V$

$I_D = I_S (e^{V_D/\phi_T} - 1)$

where $\phi_T = \frac{kT}{q} = 26mV @ 300K$

★ $I_D = \frac{V_{in} - 2V_D}{R_1 + R_2} = I_S (e^{V_D/\phi_T} - 1)$
 $\frac{2.5 - 2V_D}{4k\Omega} = 10^{-14} (e^{V_D/0.026} - 1)$

iterating on this expression
 we can obtain.

$V_D = 0.628V$
 $I_D = 311\mu A$

c) SPICE

exercise 3.1

vin in 0 dc 2.5
 r1 in 2 2k
 d1 2 3 D
 r2 3 out 2k
 d2 out 0 D

.options post=2
 .op

.model D D level=1 is=1e-14 nr=0.5
 .end

 NODE VOLTAGE
 2 1.8750E+00
 3 1.2500E+00
 OUT 6.2501E-01

CURRENT 3.1249E-04

d) $I_S = 10^{-14} A$, $T = 300K$;
 again use ★ from b and iterate
 to find:

$V_D = 0.743V$
 $I_D = 253\mu A$

$I_S = 10^{-14} A$, $T = 350K$;

$V_D = 0.728V$
 $I_D = 261\mu A$

exercise 3.1d
 vin in 0 dc 2.5
 r1 in 2 2k
 d1 2 3 D
 r2 3 out 2k
 d2 out 0 D

.options post=2
 .op

* temp 27
 .temp 77
 * model D D level=1 is=1e-14 nr=0.5
 .model D D level=1 is=1e-14 nr=0.5
 .end

t=27C
 NODE VOLTAGE
 2 1.9889E+00
 3 1.2500E+00
 IN 2.5000E+00
 OUT 7.3892E-01

ID 2.5554E-04

 t=77C
 NODE VOLTAGE
 2 1.7844E+00
 3 1.2500E+00
 IN 2.5000E+00
 OUT 5.3436E-01
 ID 3.3782E-04

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Jan Rabaey Staff



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Low-Power Electronics Design Christian Piguet, 2018-10-03 The power consumption of integrated circuits is one of the most problematic considerations affecting the design of high performance chips and portable devices The study of power saving design methodologies now must also include subjects such as systems on chips embedded software and the future of microelectronics Low Power Electronics Design covers all major aspects of low power design of ICs in deep submicron technologies and addresses emerging topics related to future design This volume explores in individual chapters written by expert authors the many low power techniques born during the past decade It also discusses the many different domains and disciplines that impact power consumption including processors complex circuits software CAD tools and energy sources and management The authors delve into what many specialists predict about the future by presenting techniques that are promising but are not yet reality They investigate nanotechnologies optical circuits ad hoc networks e textiles as well as human powered sources of energy Low Power Electronics Design delivers a complete picture of today s methods for reducing power and also illustrates the advances in chip design that may be commonplace 10 or 15 years from now Low-Power

Processors and Systems on Chips Christian Piguet, 2018-10-03 The power consumption of microprocessors is one of the most important challenges of high performance chips and portable devices In chapters drawn from Piguet s recently published Low Power Electronics Design this volume addresses the design of low power microprocessors in deep submicron technologies It provides a focused reference for specialists involved in systems on chips from low power microprocessors to DSP cores reconfigurable processors memories ad hoc networks and embedded software Low Power Processors and Systems on Chips is organized into three broad sections for convenient access The first section examines the design of digital signal processors for embedded applications and techniques for reducing dynamic and static power at the electrical and system levels The second part describes several aspects of low power systems on chips including hardware and embedded software aspects efficient data storage networks on chips and applications such as routing strategies in wireless RF sensing and actuating devices The final section discusses embedded software issues including details on compilers retargetable compilers and coverification tools Providing detailed examinations contributed by leading experts Low Power Processors and Systems on Chips supplies authoritative information on how to maintain high performance while lowering power consumption in modern processors and SoCs It is a must read for anyone designing modern computers or embedded systems

Transforming Tomorrow: Innovative Solutions and Global Trends in Electrical and Electronics Engineering

Namit Gupta, Anjali Gupta, Naresh Purohit, Shiraz Husain, 2025-06-03 The International Conference on Transforming Tomorrow Innovative Solutions and Global Trends in Electrical and Electronics Engineering Pragya 2025 is scheduled to be held on May 5 6 2025 at Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore Madhya Pradesh India This prestigious event aims to provide a dynamic platform for researchers academicians industry professionals and students to exchange knowledge

showcase cutting edge innovations and discuss global trends shaping the future of Electrical and Electronics Engineering Pragyata 2025 will feature sessions and presentations on key emerging areas including Robotics Renewable Energy Smart Grids Mechatronics 5G Communications Artificial Intelligence and the Internet of Things IoT The conference is designed to foster meaningful dialogue cross disciplinary collaboration and engagement with leading experts from academia and industry In line with its theme of Transforming Tomorrow the conference emphasizes clarity innovation and sustainable development It will serve as a catalyst for forward looking discussions and solutions that address modern engineering challenges and contribute to building a smarter greener and more connected world With a commitment to being Concise Clear and Cohesive Pragyata 2025 is set to become a significant academic and professional milestone in advancing technological progress and inspiring future innovation across the Electrical and Electronics Engineering spectrum

System-Level Synthesis Ahmed Amine Jerraya, Jean Mermet, 2012-12-06 System Level Synthesis deals with the concurrent design of electronic applications including both hardware and software The issue has become the bottleneck in the design of electronic systems including both hardware and software in several major industrial fields including telecommunications automotive and aerospace engineering The major difficulty with the subject is that it demands contributions from several research fields including system specification system architecture hardware design and software design Most existing book cover well only a few aspects of system level synthesis The present volume presents a comprehensive discussion of all the aspects of system level synthesis Each topic is covered by a contribution written by an international authority on the subject

Embedded SoPC Design with Nios II Processor and VHDL Examples Pong P. Chu, 2011-09-26 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

Application Specific Processors for Numerical Algorithms Lars Erik Thon, 1992

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** Jan Rabaey Staff, VLSI Signal Processing, VII Jan Rabaey,Paul M. Chau,John Eldon,1994 Mergent International Manual ,2003 *14th Symposium on Integrated Circuits and Systems Design* Sociedade Brasileira de Computação,2001 Annotation Papers from a September 2001 symposium report on recent advances in areas of integrated circuits and systems design including embedded systems rapid prototyping formal methods codesign CAD and test analog digital and physical design and low power and low voltage Specific topics include communication architectures for system on chip using the CAN protocol and reconfigurable computing technology for Web based smart house automation and optimizing BDD based verification analyzing variable dependencies Other subjects include interconnection length estimation at logic level an environment to aid the synthesis of threephase analogue waveform using AHDL and extending sequencing graphs for reconfigurable applications modeling This work lacks a subject index c Book

News Inc The Proceedings of the European Design Automation Conference ,1990 **Digest of Technical Papers** ,2001

Logic and Architecture Synthesis for Silicon Compilers Gabrièle Saucier,Paul Michael McLellan,1989 VLSI synthesis is a subject that is moving rapidly from the research laboratory into the industrial environment and it is generally accepted that synthesis will gradually become the dominant design technique surpassing conventional manual techniques This book provides a timely overview on the various systems for logical and architectural synthesis for VLSI It discusses the algorithms and techniques necessary for a synthesis system that is competitive with current design techniques for integrated circuits The book covers both low level logic synthesis techniques and higher level architectural techniques both of which are increasing in practical importance since they will form the basis of the next generation of CAD software for integrated circuits Three main topics are addressed The first concerns two level and multi level synthesis It includes PLA and PAL implementation as well as standard cell and compiled cell based synthesis The second concerns controller synthesis with emphasis on optimisation methods The third deals with high level synthesis resource allocation scheduling as applied to DSP systems and processors consisting of controllers and data paths Compiling Real-time Digital Signal Processing

Applications Onto Multiprocessor Systems Phu Dinh Hoang,1992 **ACM SIGPLAN Notices** ,2003-07 *Information Communication Technologies* Craig Van Slyke,2008 Information Communication Technologies Concepts Methodologies Tools and Applications is the essential compilation of breaking research in the pivotal areas of social adaptation to information technology This all inclusive reference source examines through case studies empirical analysis and conceptual models the successes and consequences associated with the growth of information communication technologies in the world today

The British National Bibliography Arthur James Wells,1996 **15th Symposium on Integrated Circuits and Systems Design** Ricardo Augusto da Luz Reis,Ney Calazans,2002

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