

# 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)  $I_S = 10^{-16} A$ ,  $T = 300K$ ,  $V_{D0n} = 0.7V$

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

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

★  $I_D = \frac{V_{in} - 2V_D}{R_1 + R_2} = I_S (e^{V_D/\phi_T} - 1)$   
 $\frac{2.5 - 2V_D}{4k\Omega} = 10^{-16} (e^{V_D/0.026} - 1)$

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-16 ns=0.5  
 .end

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

CURRENT 3.1249E-04

d)  $I_S = 10^{-16} A$ ,  $T = 300K$ ;  
 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-16 ns=0.5  
 .model D D level=1 is=1e-14 ns=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

# Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual

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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 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      **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](http://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

**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

**Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation** Vassilis Paliouras,2005-09-06 This book constitutes the refereed proceedings of the 15th International Workshop on Power and Timing Optimization and Simulation PATMOS 2005 held in Leuven Belgium in September 2005 The 74 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on low power processors code optimization for low power high level design telecommunications and signal processing low power circuits system on chip design busses and interconnections modeling design automation low power techniques memory and register files applications digital circuits and analog and physical design

**Integrated Circuit and System Design** ,2005 *Forthcoming Books* Rose Arny,2002-04 The Proceedings of the European Design Automation Conference ,1990

**Solutions Manual to Accompany Analysis and Design of Digital Integrated Circuits** David A. Hodges,Yu Chen,Horace G. Jackson,1983

**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

**Solutions Manual for Digital Integrated Circuits** Ayers John E,2003-09 *Digital Integrated Circuits* Jan M. Rabaey,2003 Contents p pChapter 1 Introductionp pChapter 2 The Manufacturing Processp pChapter 3 The Devicesp pChapter 4 The Wirep pChapter 5 The CMOS Inverterp pChapter 6 Designing Combinational Logic Gates in CMOS

**Digital Integrated Circuits** DeMassa,1996-02-01 Digital Integrated Circuits John E. Ayers,2018-09-03 Exponential improvement in functionality and performance of digital integrated circuits has revolutionized the way we live and work The continued scaling down of MOS transistors has broadened the scope of use for circuit technology to the point that texts on the topic are generally lacking after a few years The second edition of Digital Integrated Circuits Analysis and Design focuses on timeless principles with a

modern interdisciplinary view that will serve integrated circuits engineers from all disciplines for years to come Providing a revised instructional reference for engineers involved with Very Large Scale Integrated Circuit design and fabrication this book delves into the dramatic advances in the field including new applications and changes in the physics of operation made possible by relentless miniaturization This book was conceived in the versatile spirit of the field to bridge a void that had existed between books on transistor electronics and those covering VLSI design and fabrication as a separate topic Like the first edition this volume is a crucial link for integrated circuit engineers and those studying the field supplying the cross disciplinary connections they require for guidance in more advanced work For pedagogical reasons the author uses SPICE level 1 computer simulation models but introduces BSIM models that are indispensable for VLSI design This enables users to develop a strong and intuitive sense of device and circuit design by drawing direct connections between the hand analysis and the SPICE models With four new chapters more than 200 new illustrations numerous worked examples case studies and support provided on a dynamic website this text significantly expands concepts presented in the first edition     *Solutions Manual to Accompany Digital Concepts Using Standard Integrated Circuits* Richard S. Sandige,1978     **Solutions Manual for An Introduction to Digital and Analog Integrated Circuits and Applications** Sanjit K. Mitra, Sanjit Kumar Mitra,1981     *Digital integrated Circuits* ,1976     **Electric Circuit Analysis, Second Edition Solution S Manual** Steve Johnson,1992-01-01     *Digital Integrated Circuits* ,     *Integrated Circuits in Digital Electronics* Arpad Barna,Dan I. Porat,1963

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## **Table of Contents Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual**

1. Understanding the eBook Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - The Rise of Digital Reading Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Personalized Recommendations
  - Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual User Reviews and Ratings
  - Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual and Bestseller Lists
5. Accessing Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual Free and Paid eBooks
  - Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual Public Domain eBooks
  - Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual eBook Subscription Services
  - Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual Budget-Friendly Options
6. Navigating Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual Compatibility with Devices
  - Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Highlighting and Note-Taking Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Interactive Elements Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
8. Staying Engaged with Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
- 9. Balancing eBooks and Physical Books Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Setting Reading Goals Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Fact-Checking eBook Content of Digital Integrated Circuits By Rabaey 2nd Edt Solution Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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