

```
.model nmos NMOS
.model pmos PMOS
```

7.5

For the gate shown in Fig. P7.5,

- Pull-up transistor ratio is 5/5
- pull-down transistor ratios are 100/5
- $V_{DD} = 1.0$  V
- $\gamma = 0.4$  V<sup>1/2</sup>
- $|2\phi_F| = 0.6$  V

- (a) Identify the worst case input combination(s) for  $V_{OL}$ .
- (b) Calculate the worst case value of  $V_{OL}$ . (Assume that all pull-down transistors have the same body bias and initially, that  $V_{OL} = 5\% V_{DD}$ .)

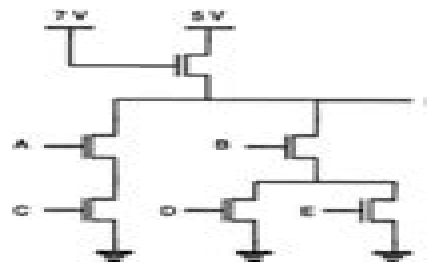


Figure P7.5

**SOLUTION:**

- (a) The worst case input combinations are those that cause only one current path from output to ground. The combinations are listed in the following table.

$A = 1$	$C = 1$	$B = 0$	
$A = 1$	$C = 1$	$C = 0$	$E = 0$
$B = 1$	$D = 1$	$A = 0$	$E = 0$
$B = 1$	$D = 1$	$C = 0$	$E = 0$
$B = 1$	$E = 1$	$A = 0$	$D = 0$
$B = 1$	$E = 1$	$C = 0$	$D = 0$

- (b) The worst case equivalent circuit can be represented by a simple inverter, with the driver  $W/L=10$ , load  $W/L=1$ . Both transistors are operating in linear region in this case because:
- Driver:  $V_{GS} = 5$ ,  $V_{DS} = 0.25$

# Digital Integrated Circuits Solution Manual

**Sanjit K. Mitra, Sanjit Kumar Mitra**



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Devices and Circuit Fundamentals is Chapter Outline Learning Objectives Key Terms Figure List Chapter Summary Formulas Answers to Examples Self Exams Glossary of Terms defined

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

**Digital Integrated Circuits** DeMassa, 1996-02-01      Gallium Arsenide Digital Integrated Circuit Design Stephen I. Long, 1990      **Digital Integrated Circuit Design** Hubert Kaeslin, 2008-04-28 This practical tool independent guide to designing digital circuits takes a unique top down approach reflecting the nature of the design process in industry Starting with architecture design the book comprehensively explains the why and how of digital circuit design using the physics designers need to know and no more

**Solutions Manual** Kang, 1995-08-01      *Solutions Manual for An Introduction to Digital and Analog Integrated Circuits and Applications* Sanjit K. Mitra, Sanjit Kumar Mitra, 1981      *Analysis and Design of Digital Integrated Circuits* David A. Hodges, Horace G. Jackson, 1988 This is a state of the art treatment of the circuit design of digital integrated circuits It includes coverage of the basic concepts of static characteristics voltage transfer characteristics noise margins fanout power dissipation and dynamic characteristics propagation delay times and the interrelationships among these parameters The authors are regarded as leading authorities in integrated circuits and MOS technology

**Solution Manual to Accompany Gallium Arsenide Digital Integrated Circuit Design** Stephen I. Long, Steven E. Butner, 1991      **Digital Integrated Electronics** Herbert Taub, Donald L. Schilling, 1977 Table of Contents 1 Electronic Devices 2 Operational Amplifiers and Comparators 3 Logic Circuits 4 Resistor Transistor Logic and Integrated Injunction Logic 5 Diode Transistor Logic 6 Transistor Transistor Logic 7 Emitter Coupled Logic 8 MOS Gates 9 Flip Flops 10 Registers and Counters 11 Arithmetic Operations 12 Semiconductor For Memories 13 Analog Switches 14 Analog to Digital Conversions 15 Timing Circuits

**Engineering Education**, 1990      *Introduction to VLSI Systems* Ming-Bo Lin, 2011-11-28

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technique to reduce product cost With this progress and continuous reduction of feature sizes and the development of very large scale integration VLSI circuits addressing the harder problems requires fundamental understanding of circuit and layout design issues Furthermore engineers can often develop their physical intuition to estimate the behavior of circuits rapidly without relying predominantly on computer aided design CAD tools Introduction to VLSI Systems A Logic Circuit and System Perspective addresses the need for teaching such a topic in terms of a logic circuit and system design perspective To achieve the above mentioned goals this classroom tested book focuses on Implementing a digital system as a full custom integrated circuit Switch logic design and useful paradigms that may apply to various static and dynamic logic families The fabrication and layout designs of complementary metal oxide semiconductor CMOS VLSI Important issues of modern CMOS processes including deep submicron devices circuit optimization interconnect modeling and optimization signal integrity power integrity clocking and timing power dissipation and electrostatic discharge ESD Introduction to VLSI Systems builds an understanding of integrated circuits from the bottom up paying much attention to logic circuit layout and system designs Armed with these tools readers can not only comprehensively understand the features and limitations of modern VLSI technologies but also have enough background to adapt to this ever changing field

**Foundations of Analog and Digital Electronic Circuits** Anant Agarwal, Jeffrey Lang, 2005-07-01 Unlike books currently on the market this book attempts to satisfy two goals combine circuits and electronics into a single unified treatment and establish a strong connection with the contemporary world of digital systems It will introduce a new way of looking not only at the treatment of circuits but also at the treatment of introductory coursework in engineering in general Using the concept of abstraction the book attempts to form a bridge between the world of physics and the world of large computer systems In particular it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems Computer systems are simply one type of electrical systems Balances circuits theory with practical digital electronics applications Illustrates concepts with real devices Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach Written by two educators well known for their innovative teaching and research and their collaboration with industry Focuses on contemporary MOS technology

*Integrated Circuit Design* Xiaokun Yang, 2024-11-20 This textbook seeks to foster a deep understanding of the field by introducing the industry integrated circuit IC design flow and offering tape out or pseudo tape out projects for hands on practice facilitating project based learning PBL experiences Integrated Circuit Design IC Design Flow and Project Based Learning aims to equip readers for entry level roles as IC designers in the industry and as hardware design researchers in academia The book commences with an overview of the industry IC design flow with a primary focus on register transfer level RTL design the automation of simulation and verification and system on chip SoC integration To build connections between RTL design and physical hardware FPGA field programmable gate array synthesis and implementation

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**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

### Subject Guide to Books in Print ,1993

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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

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