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## CHAPTER 2

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2-1.\*

a)  $\overline{XYZ} = \overline{X} + \overline{Y} + \overline{Z}$

Verification of DeMorgan's Theorem

X	Y	Z	XYZ	$\overline{XYZ}$	$\overline{X} + \overline{Y} + \overline{Z}$
0	0	0	0	1	1
0	0	1	0	1	1
0	1	0	0	1	1
0	1	1	0	1	1
1	0	0	0	1	1
1	0	1	0	1	1
1	1	0	0	1	1
1	1	1	1	0	0

b)  $X + YZ = (X + Y)(X + Z)$

The Second Distributive Law

X	Y	Z	YZ	$X + YZ$	$X + Y$	$X + Z$	$(X + Y)(X + Z)$
0	0	0	0	0	0	0	0
0	0	1	0	0	0	1	0
0	1	0	0	0	1	0	0
0	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1
1	0	1	0	1	1	1	1
1	1	0	0	1	1	1	1
1	1	1	1	1	1	1	1

c)  $\overline{XY} + \overline{YZ} + \overline{XZ} = \overline{XY} + \overline{YZ} + \overline{XZ}$

X	Y	Z	$\overline{XY}$	$\overline{YZ}$	$\overline{XZ}$	$\overline{XY} + \overline{YZ} + \overline{XZ}$	$\overline{XY}$	$\overline{YZ}$	$\overline{XZ}$	$\overline{XY} + \overline{YZ} + \overline{XZ}$
0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	1	0	1	0	0	1	1
0	1	0	1	0	0	1	0	1	0	1
0	1	1	1	0	0	1	0	0	1	1
1	0	0	0	0	1	1	1	0	0	1
1	0	1	0	1	0	1	1	0	0	1
1	1	0	0	0	1	1	0	1	0	1
1	1	1	0	0	0	0	0	0	0	0

2-2.\*

$$\begin{aligned} \text{a) } \overline{XY} + \overline{XY} + XY &= \overline{X} + Y \\ &= (\overline{XY} + \overline{XY}) + (\overline{XY} + XY) \\ &= X(Y + \overline{Y}) + Y(X + \overline{X}) \\ &= \overline{X} + Y \end{aligned}$$

$$\begin{aligned} \text{b) } \overline{AB} + \overline{BC} + AB + \overline{BC} &= 1 \\ &= (\overline{AB} + AB) + (\overline{BC} + \overline{BC}) \\ &= B(A + \overline{A}) + \overline{B}(C + \overline{C}) \end{aligned}$$

# **Logic And Computer Design Fundamentals 4th Edition Solutions Manual**

**M. Morris Mano, Charles R. Kime**



# Logic And Computer Design Fundamentals 4th Edition Solutions Manual

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Digital Design M. Morris Mano, 2002 For sophomore courses on digital design in an Electrical Engineering Computer Engineering or Computer Science department Digital Design fourth edition is a modern update of the classic authoritative text on digital design This book teaches the basic concepts of digital design in a clear accessible manner The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications

Digital Design and Computer Architecture David Harris, Sarah Harris, 2012-08-24 Digital Design and Computer Architecture Second Edition takes a unique and modern approach to digital design introducing the reader to the fundamentals of digital logic and then showing step by step how to build a MIPS microprocessor in both Verilog and VHDL This new edition combines an engaging and humorous writing style with an updated and hands on approach to digital design It presents new content on I O systems in the context of general purpose processors found in a PC as well as microcontrollers found almost everywhere Beginning with digital logic gates and progressing to the design of combinational and sequential circuits the book uses these fundamental building blocks as the basis for the design of an actual MIPS processor It provides practical examples of how to interface with peripherals using RS232 SPI motor control interrupts wireless and analog to digital conversion SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD based circuit design There are also additional exercises and new examples of parallel and advanced architectures practical I O applications embedded systems and heterogeneous computing plus a new appendix on C programming to strengthen the connection between programming and processor architecture This new edition will appeal to professional computer engineers and to students taking a course that combines digital logic and computer architecture Updated based on instructor feedback with more exercises and new examples of parallel and advanced architectures practical I O applications embedded systems and heterogeneous computing Presents digital system design examples in both VHDL and SystemVerilog updated for the second edition from Verilog shown side by side to compare and contrast their strengths Includes a new chapter on C programming to provide necessary prerequisites and strengthen the connection between programming and processor architecture Companion Web site includes links to Xilinx CAD tools for FPGA design lecture slides laboratory projects and solutions to exercises Instructors can also register at textbooks elsevier com for access to Solutions to all exercises PDF Lab materials with solutions HDL for textbook examples and exercise solutions Lecture slides PPT Sample exams Sample course syllabus Figures from the text JPG PPT

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[Subject Guide to Books in Print](#) ,1996

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*Advanced Digital Design with the Verilog HDL* Michael D. Ciletti, 2011 This title builds on the student's background from a first course in logic design and focuses on developing verifying and synthesizing designs of digital circuits The Verilog language is introduced in an integrated but selective manner only as needed to support design examples

*Fundamentals of Logic Design* Charles H. Roth, 2004 Updated with modern coverage a streamlined presentation and an excellent CD ROM this fifth edition achieves a balance between theory and application Author Charles H Roth Jr carefully presents the theory that is necessary for understanding the fundamental concepts of logic design while not overwhelming students with the mathematics of switching theory Divided into 20 easy to grasp study units the book covers such fundamental concepts as Boolean algebra logic gates design flip flops and state machines By combining flip flops with networks of logic gates students will learn to design counters adders sequence detectors and simple digital systems After covering the basics this text presents modern design techniques using programmable logic devices and the VHDL hardware description language

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In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Logic And Computer Design Fundamentals 4th Edition Solutions Manual**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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