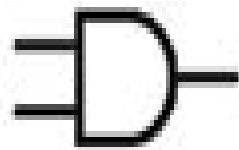
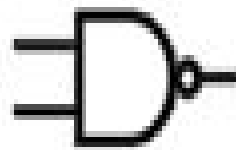


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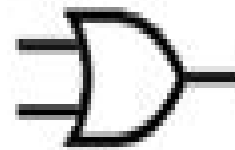
INPUT		OUTPUT
A	B	
0	0	0
1	0	0
0	1	0
1	1	1



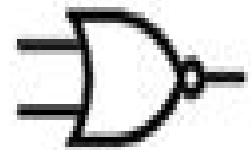
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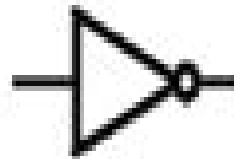
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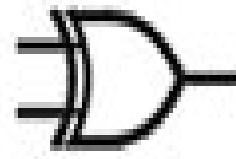
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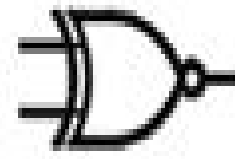
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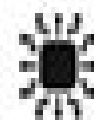
XOR



XNOR



A AND B	$A \cdot B$
A OR B	$A + B$
NOT A	\overline{A}
A XOR B	$A \oplus B$



Electronic Logic Circuits

Ian Kampel



Electronic Logic Circuits:

Electronic Logic Circuits J. Gibson, 1992-02-06 First Published in 1992 Routledge is an imprint of Taylor Francis an informa company

Practical Design of Digital Circuits Ian Kampel, 2015-08-11 Practical Design of Digital Circuits Basic Logic to Microprocessors demonstrates the practical aspects of digital circuit design The intention is to give the reader sufficient confidence to embark upon his own design projects utilizing digital integrated circuits as soon as possible The book is organized into three parts Part 1 teaches the basic principles of practical design and introduces the designer to his tools or rather the range of devices that can be called upon Part 2 shows the designer how to put these together into viable designs It includes two detailed descriptions of actual design exercises The first of these is a fairly simple exercise in CMOS design the second is a much more complex design for an electronic game using TTL devices Part 3 focuses on microprocessors It illustrates how a particular design problem changes emphasis when a microprocessor is introduced This book is aimed at a fairly broad market it is intended to aid the linear design engineer to cross the barrier into digital electronics it should provide interesting supporting reading for students studying digital electronics from the more academic viewpoint and it should enable the enthusiast to design much more ambitious and sophisticated projects than he could otherwise attempt if restricted to linear devices

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Digital Electronic Circuits - The Comprehensive View Alexander Axelevitch, 2018-09-25 This book deals with key aspects of design of digital electronic circuits for different families of elementary electronic devices Implementation of both simple and complex logic circuits are considered in detail with special attention paid to the design of digital systems based on complementary metal oxide semiconductor CMOS and Pass Transistor Logic PTL technologies acceptable for use in planar microelectronics technology It is written for students in electronics and microelectronics with exercises and solutions provided Related Link s

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Digital Logic Circuits Dr. P. Kannan, Mrs. M. Saraswathi, Mr. C. Rameshkumar, PREFACE OF THE

BOOK This book is extensively designed for the third semester EEE EIE students as per Anna university syllabus R 2013 The following chapters constitute the following units Chapter 1 9 covers Unit 1 Chapter 2 and 3 covers Unit 2 Chapter 4 and 5 covers Unit 3 Chapter 6 and 7 covers Unit 4 Chapter 8 VHDL Unit 5 CHAPTER 1 Introduces the Number System binary arithmetic and codes CHAPTER 2 Deals with Boolean algebra simplification using Boolean theorems K map method Quine McCluskey method logic gates implementation of switching function using basic Logical Gates and Universal Gates CHAPTER 3 Describes the combinational circuits like Adder Subtractor Multiplier Divider magnitude comparator encoder decoder code converters Multiplexer and Demultiplexer CHAPTER 4 Describes with Latches Flip Flops Registers and Counters CHAPTER 5 Concentrates on the Analysis as well as design of synchronous sequential circuits Design of synchronous counters sequence generator and Sequence detector CHAPTER 6 Concentrates the Design as well as Analysis of Fundamental Mode circuits Pulse mode Circuits Hazard Free Circuits ASM Chart and Design of Asynchronous counters CHAPTER 7 Discussion on memory devices which includes ROM RAM PLA PAL Sequential logic devices and ASIC CHAPTER 8 The chapter concentrates on the design fundamental building blocks Data types operates subprograms packages compilation process used for VHDL It discusses on Finite state machine as an important tool for designing logic level state machines The chapter also discusses register transform level designing and test benches usage in stimulation of the state logic machines CHAPTER 9 Concentrate on the comparison operation and characteristics of RTL DTL TTL ECL and MOS families We have taken enough care to present the definitions and statements of basic laws and theorems problems with simple steps to make the students familiar with the fundamentals of Digital Design *Electronic Logic Circuits* J. R. Gibson, 1979 **Digital Electronic Circuits** Shuqin Lou, Chunling Yang, 2019-05-20 This book presents three aspects of digital circuits digital principles digital electronics and digital design The modern design methods of using electronic design automation EDA are also introduced including the hardware description language HDL designs with programmable logic devices and large scale integrated circuit LSI The applications of digital devices and integrated circuits are discussed in detail as well **Digital Electronics: A Primer - Introductory Logic Circuit Design** Mark S Nixon, 2015-01-27 This practical introduction explains exactly how digital circuits are designed from the basic circuit to the advanced system It covers combinational logic circuits which collect logic signals to sequential logic circuits which embody time and memory to progress through sequences of states The primer also highlights digital arithmetic and the integrated circuits that implement the logic functions Based on the author's extensive experience in teaching digital electronics to undergraduates the book translates theory directly into practice and presents the essential information in a compact digestible style Worked problems and examples are accompanied by abbreviated solutions with demonstrations to ensure that the design material and the circuits operation are fully understood This is essential reading for any electronic or electrical engineering student new to digital electronics and requiring a succinct yet comprehensive introduction **Fundamentals and Applications of Digital**

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CRC Handbook of Digital System Design, Second Edition Wen C. Lin, 1990-09-25 As technology advances digital system designers must acquire and maintain skills to design systems with analog pulse time and digital circuits along with LSI and VLSI devices The CRC Handbook of Digital System Design Second Edition reviews the fundamentals of these topics for the convenience of designers who need to refresh their memories from time to time In a somewhat unique presentation this book integrates theory with practical design and covers three broad topics The basics formulas design equation terminology symbols and notation Characteristics properties and principles of operation of devices modules and building blocks frequently used as components in digital system design Design procedures guidelines for system design presented through examples The author includes numerous examples both simple and complex throughout the book that help clarify points often confusing or overlooked He also addresses memory and arithmetic unit design techniques of grounding and shielding for analog and digital noise and graphical techniques for nonlinear circuits and transmission line analysis The style is straightforward the treatment self contained and practical The CRC Handbook of Digital System Design Second Edition remains a popular and valuable resource for anyone involved in digital system design

Aircraft Digital Electronic and Computer Systems Michael H. Tooley, 2007 Aircraft Digital Electronic and Computer Systems provides an introduction to the principles of this subject It is written for anyone pursuing a career in aircraft maintenance engineering or a related aerospace engineering discipline

EBOOK: Fundamentals of Digital Logic Stephen Brown, Zvonko Vranesic, 2008-07-16 Fundamentals of Digital Logic with VHDL Design teaches the basic design techniques for logic circuits The text provides a clear and easily understandable discussion of logic circuit design without the use of unnecessary formalism It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips Fundamental concepts are illustrated by using small examples which are easy to understand Then a modular approach is used to show how larger circuits are designed VHDL is a complex language so it is introduced gradually in the book Each VHDL feature is presented as it becomes pertinent for the circuits being discussed While it includes a discussion of VHDL the book provides thorough coverage of the fundamental concepts of logic circuit design independent of the use of VHDL and CAD tools A CD ROM containing all of the VHDL design examples used in the book as well Altera's Quartus II CAD software is included free with every text

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