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Logic Gates - An Introduction To Digital Electronics - PyroEDU

Why Do Computers Use 1s and 0s? Binary and Transistors Explained. Problem 3.2 Alexander Sadiku 5th Edition *What are Basic logic gates? | Learn basic digital gates in 6 min | AND, OR and NOT gates | DE.10*

Logic Gate Expressions

An Introduction to Logic Gates**Lecture 1 - Basic Logic Gates | Digital Logic Design | MyLearnCube** *Boolean Logic \u0026 Logic Gates: Crash Course Computer Science #3* **How Flip Flops Work - The Learning Circuit** ~~Canonical Form and Standard Form in Boolean Algebra | Digital Logic Design Gate Lectures in Hindi~~ ~~DLD 1.1: Why study Digital Logic Circuits and Design?~~ ~~Design of Digital Circuits - Lecture 7: Sequential Logic Design (ETH Zürich, Spring 2018)~~ Lecture 1 number system Digital Logic Design ~~Number System (Conversions) in Hindi | Digital Electronics | Lecture 1~~ Digital Logic Design Principles Wiley
This is an introductory-level book on the principles of digital logic design. Many topics are introduced in an exploratory spirit so students understand the purpose and motivation for their presentation. Modern design methods are introduced including the behavioral specification of systems using a hardware description language (HDL); ABEL is the chosen HDL for this text.

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This book is an introduction on the principles of digital logic circuits. While providing coverage to the usual topics in combinational and sequential circuit principles, it also includes a chapter on the use of the hardware description language ABEL in the design of circuits using PLDs and a chapter on computer organization.

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Wiley Digital Logic Design Principles 978-0-471-29351-4. To purchase this product, please visit https://www.wiley.com/en-us/9780471293514. Digital Logic Design Principles. Norman Balabanian, Bradley Carlson. Hardcover 978-0-471-29351-4 November 2000 $244.95. DESCRIPTION. This is an introductory-level book on the principles of digital logic design.

Wiley Digital Logic Design Principles 978-0-471-29351-4
About this book A major objective of this book is to fill the gap between traditional logic design principles and logic design/optimization techniques used in practice. Over the last two decades several techniques for computer-aided design and optimization of logic circuits have been developed.

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Principles of modern digital design / by Parag K. Lala. p. cm. Includes index. ISBN 978-0-470-07296-7 (cloth/cd) 1. Logic design. 2. Logic circuits—Design and construction. 3. Digital electronics. I. Title TK7868. L6L3486 2007 621.3905--dc22 2006032483 Printed in the United States of America 10 98 76 543 21

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Fundamentals of Digital Logic and Microcomputer Design, has long been hailed for its clear and simple presentation of the principles and basic tools required to design typical digital systems such as microcomputers. In this Fifth Edition, the author focuses on computer design at three levels: the device level, the logic level, and the system level.

Fundamentals of Digital Logic and Microcomputer Design ...
2. Fundamental Concepts of Digital Logic. 3. Combinational Logic Design. 4. Fundamentals of Synchronous Sequential Circuits. 5. VHDL in Digital Design. 6. Combinational Logic Design using VHDL. 7. Synchronous Sequential Circuit Design. 8. Counter Design. 9. Sequential Circuit Design using VHDL. 10. Asynchronous Sequential Circuits. Appendix A. CMOS Logic. Index.

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From the Publisher: This book is an introduction on the principles of digital logic circuits. While providing coverage to the usual topics in combinational and sequential circuit principles, it also includes a chapter on the use of the hardware description language ABEL in the design of circuits using PLDs and a chapter on computer organization.

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The Wiley Advantage Fundamentals of Digital Logic & Microcomputer Design, a leading computer science / engineering text for undergraduate and introductory graduate courses, has long been hailed for its clear and simple presentation of the principles and basic tools required to design typical digital systems such as microcomputers.

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This book is devoted to the analysis and design of digital circuits, where the signal can assume only two possible logic levels. It deals with the basic principles and concepts of digital electronics. It addresses all aspects of combinational logic and provides a …

Market_Desc: · Electrical engineers· Logic Designers in Computer Industry Special Features: · Provides extensive exercises for readers to work out while studying a topic· Presents up-to-date approaches in logic design in later chapters· Discusses the relationship between digital system design and computer architecture About The Book: This is an introductory-level book on the principles of digital logic design. While providing coverage to the usual topics in combinational and sequential circuit principles, it also includes a chapter on the use of the hardware description language ABEL in the design of circuits using PLDs and a chapter on computer organization.

PRINCIPLES OF MODERN DIGITAL DESIGN FROM UNDERLYING PRINCIPLES TO IMPLEMENTATION—A THOROUGH INTRODUCTION TO DIGITAL LOGIC DESIGN With this book, readers discover the connection between logic design principles and theory and the logic design and optimization techniques used in practice. Therefore, they not only learn how to implement current design techniques, but also how these techniques were developed and why they work. With a deeper understanding of the underlying principles, readers become better problem-solvers when faced with new and difficult digital design challenges. Principles of Modern Digital Design begins with an examination of number systems and binary code followed by the fundamental concepts of digital logic. Next, readers advance to combinational logic design. Armed with this foundation, they are then introduced to VHDL, a powerful language used to describe the function of digital circuits and systems. All the major topics needed for a thorough understanding of modern digital design are presented, including: Fundamentals of synchronous sequential circuits and synchronous sequential circuit design Combinational logic design using VHDL Counter design Sequential circuit design using VHDL Asynchronous sequential circuits VHDL-based logic design examples are provided throughout the book to illustrate both the underlying principles and practical design applications. Each chapter is followed by exercises that enable readers to put their skills into practice by solving realistic digital design problems. An accompanying website with Quartus II software enables readers to replicate the book’s examples and perform the exercises. This book can be used for either a two- or one-semester course for undergraduate students in electrical and computer engineering and computer science. Its thorough explanation of theory, coupled with examples and exercises, enables both students and practitioners to master and implement modern digital design techniques with confidence.

The omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits. This book is devoted to the analysis and design of digital circuits, where the signal can assume only two possible logic levels. It deals with the basic principles and concepts of digital electronics. It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform functions and operations of Boolean algebra. Combinational logic circuits are characterized by outputs that depend only on the actual input values. Efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic circuits. Each chapter is well structured and is supplemented by a selection of solved exercises covering logic design practices.

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on

fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Fundamentals of Digital Logic and Microcomputer Design, haslong been hailed for its clear and simple presentation of theprinciples and basic tools required to design typical digitalsystems such as microcomputers. In this Fifth Edition, the authorfocuses on computer design at three levels: the device level, thelogic level, and the system level. Basic topics are covered, suchas number systems and Boolean algebra, combinational and sequentiallogic design, as well as more advanced subjects such as assemblylanguage programming and microprocessor-based system design.Numerous examples are provided throughout the text. Coverage includes: Digital circuits at the gate and flip-flop levels Analysis and design of combinational and sequentialcircuits Microcomputer organization, architecture, and programmingconcepts Design of computer instruction sets, CPU, memory, and I/O System design features associated with popular microprocessorsfrom Intel and Motorola Future plans in microprocessor development An instructor's manual, available upon request Additionally, the accompanying CD-ROM, contains step-by-stepprocedures for installing and using Altera Quartus II software,MASM 6.11 (8086), and 68asmsim (68000), provides valuablesimulation results via screen shots. Fundamentals of Digital Logic and Microcomputer Design is anessential reference that will provide you with the fundamentaltools you need to design typical digital systems.

Digital Logic with an Introduction to Verilog and FPGA-Based Design provides basic knowledge of field programmable gate array (FPGA) design and implementation using Verilog, a hardware description language (HDL) commonly used in the design and verification of digital circuits. Emphasizing fundamental principles, this student-friendly textbook is an ideal resource for introductory digital logic courses. Chapters offer clear explanations of key concepts and step-by-step procedures that illustrate the real-world application of FPGA-based design. Designed for beginning students familiar with DC circuits and the C programming language, the text begins by describing of basic terminologies and essential concepts of digital integrated circuits using transistors. Subsequent chapters cover device level and logic level design in detail, including combinational and sequential circuits used in the design of microcontrollers and microprocessors. Topics include Boolean algebra and functions, analysis and design of sequential circuits using logic gates, FPGA-based implementation using CAD software tools, and combinational logic design using various HDLs with focus on Verilog.

New, updated and expanded topics in the fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. *A highly accessible, comprehensive and fully up to date digital systems text *A well known and respected text now revamped for current courses *Part of the Newnes suite of texts for HND/1st year modules

Updated to reflect the latest advances in the field, the Sixth Edition of Fundamentals of Digital Logic and Microcontrollers further enhances its reputation as the most accessible introduction to the basic principles and tools required in the design of digital systems. Features updates and revision to more than half of the material from the previous edition Offers an all-encompassing focus on the areas of computer design, digital logic, and digital systems, unlike other texts in the marketplace Written with clear and concise explanations of fundamental topics such as number system and Boolean algebra, and simplified examples and tutorials utilizing the PIC18F4321 microcontroller Covers an enhanced version of both combinational and sequential logic design, basics of computer organization, and microcontrollers

This third volume in the comprehensive Digital Electronics series, which explores the basic principles and concepts of digital circuits, focuses on finite state machines. These machines are characterized by a behavior that is determined by a limited and defined number of states, the holding conditions for each state, and the branching conditions from one state to another. They only allow one transition at a time and can be divided into two components: a combinational logic circuit and a sequential logic circuit. The approach is gradual and relatively independent of each other chapters. To facilitate the assimilation and practical implementation of various concepts, the book is complemented by a selection of practical exercises.