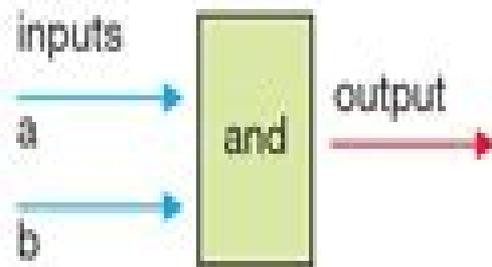


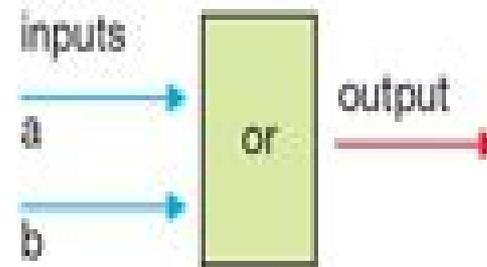
Logic circuits

AND



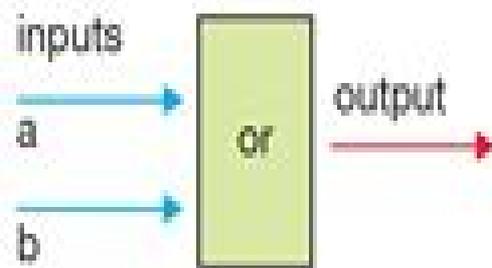
inputs		output
a	b	
0	0	0
0	1	0
1	0	0
1	1	1

EXCLUSIVE OR



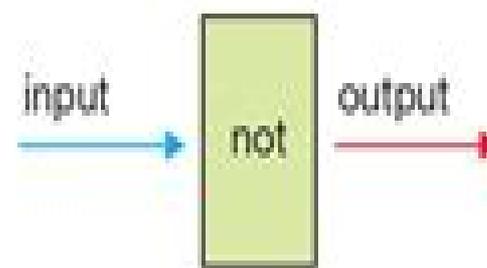
inputs		output
a	b	
0	0	0
0	1	1
1	0	1
1	1	0

OR



inputs		output
a	b	
0	0	0
0	1	1
1	0	1
1	1	1

NOT



input	output
0	1
1	0

Computer Logic Design

Thomas C. Bartee



Computer Logic Design:

Computer Logic John Y. Hsu, 2012-12-06 An understanding of modern computer logic incorporating core knowledge of number systems number conversions Boolean algebra memories and logic circuits is fundamental to further study of computer architectures system software and computer networks Computer Logic Design Principles and Applications introduces and describes the relevant concepts principles and applications of modern computer logic design The book is self contained with an introductory chapter that concisely covers the history of computing devices as well as number systems number conversions signed and unsigned integers external code and digital and digitizing concepts Dedicated chapters on Boolean algebra transistor circuits combinatorial logic circuits and sequential logic circuits round off the work The emphasis is on design and applications

Handbook of Digital Techniques for High-Speed Design, 2007-09 *Logic Design and Computer Organization* Atul P. Godse, Dr. Deepali A. Godse, 2021-01-01 This book presents the basic concepts used in designing and analyzing digital circuits and introduces digital computer organization and design principles The first part of the book teaches you the number systems logic gates logic families Boolean algebra simplification of logic functions analysis and design of combinational circuits using SSI and MSI circuits It also explains latches and flip flops Types of counters synchronous and asynchronous counter design and applications and shift registers and its applications The second part of the book teaches you functional units of computer Von Neumann and Harvard architectures processor organization control unit hardwired control unit and microprogrammed control unit processor instructions instruction cycle instruction formats instruction pipelining RISC and CISC architectures interrupts interrupt handling multiprocessor systems multicore processors memory and I O organizations

Digital Principles and Logic Design Arijit Saha, Nilotpal Manna, 2009-01-28 This text and reference provides students and practicing engineers with an introduction to the classical methods of designing electrical circuits but incorporates modern logic design techniques used in the latest microprocessors microcontrollers microcomputers and various LSI components The book provides a review of the classical methods e g the basic concepts of Boolean algebra combinational logic and sequential logic procedures before engaging in the practical design approach and the use of computer aided tools The book is enriched with numerous examples and their solutions over 500 illustrations and includes a CD ROM with simulations additional figures and third party software to illustrate the concepts discussed in the book

Fundamentals of Logic Design Charles H. Roth, 1985 **Digital Logic Design** Guy Even, Moti Medina, 2012-10-08 This textbook based on the authors fifteen years of teaching is a complete teaching tool for turning students into logic designers in one semester Each chapter describes new concepts giving extensive applications and examples Assuming no prior knowledge of discrete mathematics the authors introduce all background in propositional logic asymptotics graphs hardware and electronics Important features of the presentation are All material is presented in full detail Every designed circuit is formally specified and implemented the correctness of the implementation is proved and the cost and delay are

analyzed Algorithmic solutions are offered for logical simulation computation of propagation delay and minimum clock period Connections are drawn from the physical analog world to the digital abstraction The language of graphs is used to describe formulas and circuits Hundreds of figures examples and exercises enhance understanding The extensive website <http://www.eng.tau.ac.il/guy> Even Medina includes teaching slides links to Logisim and a DLX assembly simulator

Introduction to Logic Design Alan B. Marcovitz, 2010 This book is intended as an introductory logic design book for students in computer science computer engineering and electrical engineering It has no prerequisites although the maturity attained through an introduction to engineering course or a first programming course would be helpful

Computer Architecture and Logic Design Thomas C. Bartee, 1991

Computer Logic Design M. Morris Mano, 1972

Introduction to Logic Circuits & Logic Design with VHDL Brock J. LaMeres, 2023-10-24 This textbook introduces readers to the fundamental hardware used in modern computers The only pre requisite is algebra so it can be taken by college freshman or sophomore students or even used in Advanced Placement courses in high school This book presents both the classical approach to digital system design i e pen and paper in addition to the modern hardware description language HDL design approach computer based This textbook enables readers to design digital systems using the modern HDL approach while ensuring they have a solid foundation of knowledge of the underlying hardware and theory of their designs This book is designed to match the way the material is actually taught in the classroom Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics The author has designed the content with learning goals and assessment at its core Each section addresses a specific learning outcome that the learner should be able to do after its completion The concept checks and exercise problems provide a rich set of assessment tools to measure learner performance on each outcome This book can be used for either a sequence of two courses consisting of an introduction to logic circuits Chapters 1-7 followed by logic design Chapters 8-14 or a single accelerated course that uses the early chapters as reference material

Logic and Computer Design Fundamentals M. Morris Mano, Charles R. Kime, 1997 Based on the bestselling texts *Digital Logic and Computer Design* 1972 and *Computer Engineering Hardware Design* 1988 this text presents the fundamentals of hardware design and integrates state of the art techniques and technologies in an easy to understand style with abundant use of examples Students taking introductory courses in digital logic design computer engineering or computer hardware design should find this text useful

Digital Logic Design John F. Passafiume, Michael Douglas, 1985

Introduction to Logic Circuits & Logic Design with Verilog Brock J. LaMeres, 2017-04-17 This textbook for courses in Digital Systems Design introduces students to the fundamental hardware used in modern computers Coverage includes both the classical approach to digital system design i e pen and paper in addition to the modern hardware description language HDL design approach computer based Using this textbook enables readers to design digital systems using the modern HDL approach but they have a broad foundation of knowledge of the underlying hardware and theory of their designs This book is designed to match the

way the material is actually taught in the classroom Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics The author has designed the presentation with learning Goals and assessment at its core Each section addresses a specific learning outcome that the student should be able to do after its completion The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome

Computer Logic David Hutchison,Peter Silvester,1987 Introduction to Digital Logic Design John Patrick Hayes,1993
Textbook Logic and Computer Design Fundamentals M. Morris Mano,Charles R. Kime,2004 **The Logic Design of Transistor Digital Computers** Gerald A. Maley,John Earle,1963 **Introduction to Logic and Computer Design** Alan B. Marcovitz,2008 **Digital Logic Design and Computer Organization with Computer Architecture for Security** Nikrouz Faroughi,2014-09-11 A COMPREHENSIVE GUIDE TO THE DESIGN ORGANIZATION OF MODERN COMPUTING SYSTEMS Digital Logic Design and Computer Organization with Computer Architecture for Security provides practicing engineers and students with a clear understanding of computer hardware technologies The fundamentals of digital logic design as well as the use of the Verilog hardware description language are discussed The book covers computer organization and architecture modern design concepts and computer security through hardware Techniques for designing both small and large combinational and sequential circuits are thoroughly explained This detailed reference addresses memory technologies CPU design and techniques to increase performance microcomputer architecture including plug and play device interface and memory hierarchy A chapter on security engineering methodology as it applies to computer architecture concludes the book Sample problems design examples and detailed diagrams are provided throughout this practical resource COVERAGE INCLUDES Combinational circuits small designs Combinational circuits large designs Sequential circuits core modules Sequential circuits small designs Sequential circuits large designs Memory Instruction set architecture Computer architecture interconnection Memory system Computer architecture security *Introduction to Logic Design* Sajjan G. Shiva,1988

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