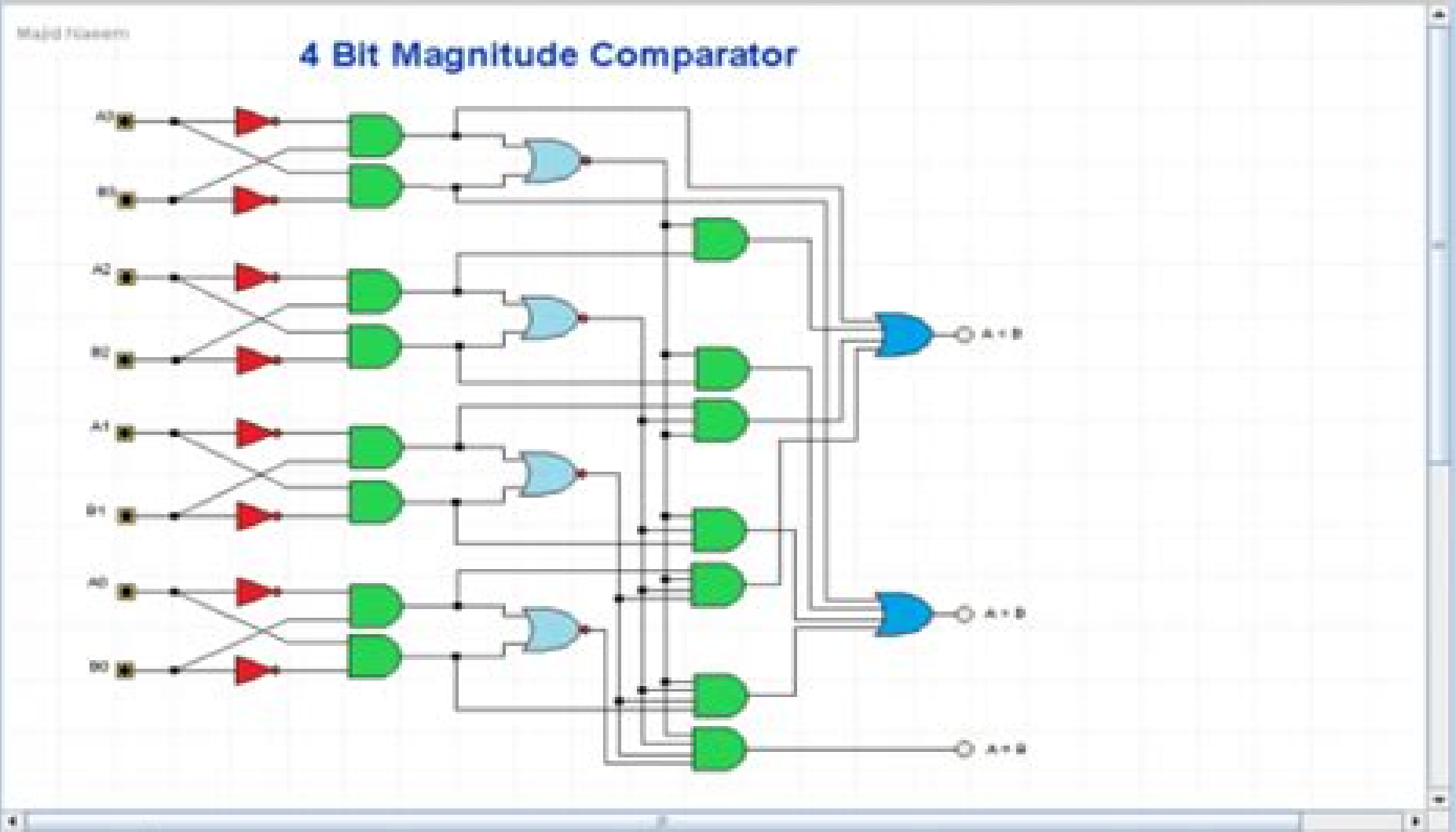


File Icons for file operations	Operations Arithmetic and logic symbols	Basic Gates AND, OR, NOT, XOR symbols	Derived Gates NAND, NOR, XNOR symbols	Flip Flops D, JK, T, SR symbols	I/O Parts Switch, LED, Buzzer symbols	Simulation Play, Pause, Stop symbols	Scope Oscilloscope symbol	I/O B Bus symbols	Power Vcc, GND symbols
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M. Morris Mano



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A Systematic Approach to Digital Logic Design Frederic J. Mowle, 1976 Number systems Base R arithmetic Boolean algebra Special boolean functions and basic logic conventions Minimization procedures for boolean function Binary arithmetic units Decimal arithmetic Introduction to sequential circuit design Practical flip flop circuits Binary counters Register design techniques Advanced arithmetic units Digital Logic and Computer Design M. Morris Mano, 1979

Digital Logic Design B. Holdsworth, 2014-05-12 Digital Logic Design Second Edition provides a basic understanding of digital logic design with emphasis on the two alternative methods of design available to the digital engineer This book describes the digital design techniques which have become increasingly important Organized into 14 chapters this edition begins with an overview of the essential laws of Boolean algebra K map plotting techniques as well as the simplification of Boolean functions This text then presents the properties and develops the characteristic equations of a number of various types of flip flop Other chapters consider the design of synchronous and asynchronous counters using either discrete flip flops or shift registers This book discusses as well the design and implementation of event driven logic circuits using the NAND sequential equation The final chapter deals with simple coding techniques and the principles of error detection and correction This book is a valuable resource for undergraduate students digital engineers and scientists **DIGITAL LOGIC DESIGN** Sonali Singh, 2018-06-01 Description The book is an attempt to make Digital Logic Design easy and simple to understand The book covers various features of Logic Design using lots of examples and relevant diagrams The complete text is reviewed for its correctness This book is an outcome of sincere effort and hard work to bring concepts of Digital Logic Design close to the audience of this book The salient features of the book Easy explanation of Digital System and Binary Numbers with lots of solved examples Detailed covering of Boolean Algebra and Gate Level Minimization with proper examples and diagrammatic representation Detailed analysis of different Combinational Logic Circuits Complete Synchronous sequential Logic understanding Deep understanding of Memory and Programmable Logic Detailed analysis of different Asynchronous Sequential Logic Table Of Contents Unit 1 Digital System and Binary Numbers Part 1 Digital System and Binary Numbers Part 2 Boolean Algebra and Gate Level Minimization Unit 2 Combinational Logic Unit 3 Sequential Circuits Unit 4 Memory Programmable Logic and Design Unit 5 Asynchronous Sequential Logic **Foundations of Digital Logic Design** Gideon Langholz, Abraham Kandel, Joe L. Mott, 1998 This text is intended for a first course in digital logic design at the sophomore or junior level for electrical engineering computer engineering and computer science programs as well as for a number of other disciplines such as physics and mathematics The book can also be used for self study or for review by practicing engineers and computer scientists not intimately familiar with the subject After completing this text the student should be prepared for a second advanced course in digital design switching and automata theory microprocessors or computer organization *Digital Logic Techniques, 3rd Edition* John Stonham, 1996-05-19 The third edition of Digital

Logic Techniques provides a clear and comprehensive treatment of the representation of data operations on data combinational logic design sequential logic computer architecture and practical digital circuits A wealth of exercises and worked examples in each chapter give students valuable experience in applying the concepts and techniques discussed Beginning with an objective comparison between analogue and digital representation of data the author presents the Boolean algebra framework for digital electronics develops combinational logic design from first principles and presents cellular logic as an alternative structure more relevant than canonical forms to VLSI implementation He then addresses sequential logic design and develops a strategy for designing finite state machines giving students a solid foundation for more advanced studies in automata theory The second half of the book focuses on the digital system as an entity Here the author examines the implementation of logic systems in programmable hardware outlines the specification of a system explores arithmetic processors and elucidates fault diagnosis The final chapter examines the electrical properties of logic components compares the different logic families and highlights the problems that can arise in constructing practical hardware systems

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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/guyEven> Medina includes teaching slides links to Logisim and a DLX assembly simulator

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