

Boolean Algebra And Logic Gates

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Discrete Mathematics Problems - University of North Florida

Design logic circuits, using AND, OR, and NOT gates to solve the following problems. 1. Input two bits, $x;y$ and output two bits representing $x-y$ ($1-1 = 00$, $1-0 = 01$, $0-0 = 00$, $0-1 = 11$). 2. Input two bits $x;y$ and output two bits representing the absolute value of $x-y$ 3. Input three bits $x;y;z$ and output one bit which is the ...

Introduction to Computer Science - Jacobs University

Boolean Algebra Equivalence Laws¹³⁸ Normal Forms (CNF and DNF)¹⁴³ Complexity of Boolean Formulas¹⁵⁰ Boolean Logic and the Satisfiability Problem¹⁵⁶ V Computer Architecture¹⁶¹ Logic Gates and Digital Circuits¹⁶² Sequential Digital Circuits¹⁷³ Von Neumann Computer Architecture¹⁸³ VI System Software¹⁹¹ Interpreter and Compiler¹⁹²

Lecture Notes for Digital Electronics - University of Oregon

2.2 Boolean Algebra and DeMorgan's Theorems Boolean algebra can be used to formalize the combinations of binary logic states. The fundamental relations are given in Table 8.3 of the text. In these relations, A and B are binary quantities, that is, they can be either logical true (T or 1) or logical false (F or 0). Most of these relations are ...

Digital Logic Design - Port City International University

2 Boolean Algebra and Logic Gates 38 2.1 Introduction 38 2.2 Basic Definitions 38 2.3 ... Boolean logic, (2) logic gates used by designers, (3) synchronous finite state machines, and (4) datapath controller design—all from a perspective of designing dig-ital systems. This focus led to elimination of material more suited for a course in elec-

DIGITAL LOGIC CIRCUITS - University of Ottawa

Simplifying logic functions using Boolean algebra rules ... continued A B C A A A
. C F A . B F = AB + AC ... NAND gate implementation of the "sum-of-product"
logic functions NAND gates are faster than ANDs and ORs in most technologies A
B C A A F A B C A F F = AB + AC X = (X)

CHAPTER 3 Boolean Algebra and Digital Logic

The two-valued Boolean algebra has important application in the design of modern computing systems. This chapter contains a brief introduction the basics of logic design. It provides minimal coverage of Boolean algebra and this algebra's relationship to logic gates and basic digital circuit. 3.2 Boolean Algebra 138 Boolean algebra is algebra ...