

Binary Logic And Boolean Algebra Dcu

Introductory treatment begins with set theory and fundamentals of Boolean algebra, proceeding to concise accounts of applications to symbolic logic, switching circuits, relay circuits, binary arithmetic, and probability theory. 1961 edition.

Pragmatic Logic presents the analysis and design of digital logic systems. The author begins with a brief study of binary and hexadecimal number systems and then looks at the basics of Boolean algebra. The study of logic circuits is divided into two parts, combinational logic, which has no memory, and sequential logic, which does. Numerous examples highlight the principles being presented. The text ends with an introduction to digital logic design using Verilog, a hardware description language. The chapter on Verilog can be studied along with the other chapters in the text. After the reader has completed combinational logic in Chapters 4 and 5, sections 9.1 and 9.2 would be appropriate. Similarly, the rest of Chapter 9 could be studied after completing sequential logic in Chapters 6 and 7. This short lecture book will be of use to students at any level of electrical or computer engineering and for practicing engineers or scientists in any field looking for a practical and applied introduction to digital logic. The authors’ “pragmatic” and applied style gives a unique and helpful “non-idealist, practical, opinionated” introduction to digital systems.

Boolean Algebra and Its ApplicationsCourier Corporation

Digital Logic Design MCOs

Mathematical Logic - Basic Concepts

FSM-based Digital Design using Verilog HDL

Thinking Machines, a Layman’s Introduction to Logic, Boolean Algebra, and Computers

Digital Logic Design

Algebraic Methods of Mathematical Logic

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:Unit 1 : Digital System and Binary Numbers;Part 2 : Boolean Algebra and Gate Level MinimizationUnit 2 : Combinational LogicUnit 3: Sequential CircuitsUnit 4 : Memory, Programmable Logic and DesignUnit 5 : Asynchronous Sequential Logic

Digital Logic Design MCOs: Multiple Choice Questions and Answers (Quiz & Practice Tests with Answer Key) PDF, (Digital Logic Design Question Bank & Quick Study Guide) Includes revision guide for problem solving with 700 solved MCOs. Digital Logic Design MCQ book with answers PDF covers basic concepts, analytical and practical assessment tests. Digital Logic Design MCQ PDF book helps to practice test questions from exam prep notes. Digital logic design quick study guide includes revision guide with 700 verbal, quantitative, and analytical past papers, solved MCOs. Digital Logic Design Multiple Choice Questions and Answers (MCOs) PDF download, a book to practice quiz questions and answers on chapters: Algorithmic state machine, asynchronous sequential logic, binary systems, Boolean algebra and logic gates, combinational logics, digital integrated circuits, DLD experiments, MSI and PLD components, registers counters and memory units, simplification of Boolean functions, standard graphic symbols, synchronous sequential logics tests for college and university revision guide. Digital Logic Design Quiz Questions and Answers PDF download with free sample book covers beginner’s questions, textbook’s study notes to practice tests. DLD MCOs book includes high school question papers to review practice tests for exams. Digital logic design book PDF, a quick study guide with textbook chapters’ tests for competitive exam. Digital Logic Design Question Bank PDF covers problem solving exam tests from computer science textbook and practical book’s chapters as: Chapter 1: Algorithmic State Machine MCOs Chapter 2: Asynchronous Sequential Logic MCOs Chapter 3: Binary Systems MCOs Chapter 4: Boolean Algebra and Logic Gates MCOs Chapter 5: Combinational Logics MCOs Chapter 6: Digital Integrated Circuits MCOs Chapter 7: DLD Experiments MCOs Chapter 8: MSI and PLD Components MCOs Chapter 9: Registers Counters and Memory Units MCOs Chapter 10: Simplification of Boolean Functions MCOs Chapter 11: Standard Graphic Symbols MCOs Chapter 12: Synchronous Sequential Logics MCOs Practice Algorithmic State Machine MCQ book PDF with answers, test 1 to solve MCQ questions bank: Introduction to algorithmic state machine, algorithmic state machine chart, ASM chart, control implementation in ASM, design with multiplexers, state machine diagrams, and timing in state machines. Practice Asynchronous Sequential Logic MCQ book PDF with answers, test 2 to solve MCO questions bank: Introduction to asynchronous sequential logic, analysis of asynchronous sequential logic, circuits with latches, design procedure of asynchronous sequential logic, and transition table. Practice Binary Systems MCQ book PDF with answers, test 3 to solve MCQ questions bank: Binary systems problems, complements in binary systems, character alphanumeric codes, arithmetic addition, binary codes, binary numbers, binary storage and registers, code, decimal codes, definition of binary logic, digital computer and digital system, error detection code, gray code, logic gates, number base conversion, octal and hexadecimal numbers, radix complement, register transfer, signed binary number, subtraction with complement, switching circuits, and binary signals. Practice Boolean Algebra and Logic Gates MCQ book PDF with answers, test 4 to solve MCQ questions bank: Basic definition of Boolean algebra, digital logic gates, axiomatic definition of Boolean algebra, basic algebraic manipulation, theorems and properties of Boolean algebra, Boolean functions, complement of a function, canonical and standard forms, conversion between canonical forms, standard forms, integrated circuits, logical operations, operator precedence, product of maxterms, sum of minterms, and Venn diagrams. 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Practice DLD Lab Experiments MCQ book PDF with answers, test 7 to solve MCQ questions bank: Introduction to lab experiments, adder and subtractor, binary code converters, code converters, combinational circuits, design with multiplexers, digital logic design experiments, digital logic gates, DLD lab experiments, sequential circuits, flip-flops, lamp handball, memory units, serial addition, shift registers, and simplification of Boolean function. Practice MSI and PLD Components MCQ book PDF with answers, test 8 to solve MCQ questions bank: Introduction to MSI and PLD components, binary adder and subtractor, carry propagation, decimal adder, decoders and encoders, introduction to combinational logics, magnitude comparator, multiplexers, and read only memory. Practice Registers Counters and Memory Units MCQ book PDF with answers, test 9 to solve MCQ questions bank: Introduction to registers counters, registers, ripple counters, shift registers, synchronous counters, and timing sequences. Practice Simplification of Boolean Functions MCQ book PDF with answers, test 10 to solve MCQ questions bank: DE Morgan’s theorem, dont care conditions, five variable map, four variable map, map method, NAND implementation, NOR implementation, OR and Invert implementations, product of sums simplification, selection of prime implicants, tabulation method, two and three variable maps, and two level implementations. Practice Standard Graphic Symbols MCQ book PDF with answers, test 11 to solve MCQ questions bank: Dependency notation symbols, qualifying symbols, and rectangular shape symbols. Practice Synchronous Sequential Logics MCQ book PDF with answers, test 12 to solve MCQ questions bank: Introduction to synchronous sequential logic, flip-flops in synchronous sequential logic, clocked sequential circuits analysis, design of counters, design procedure in sequential logic, flip-flops excitation tables, state reduction and assignment, and triggering of flip-flops.

Algebraic Methods of Mathematical Logic focuses on the algebraic methods of mathematical logic, including Boolean algebra, mathematical language, and arithmetization. The book first offers information on the dialectic of the relation between mathematical and metamathematical aspects; metamathematico-mathematical parallelism and its natural limits; practical applications of methods of mathematical logic; and principal mathematical tools of mathematical logic. The text then elaborates on the language of mathematics and its symbolization and recursive construction of the relation of consequence. Discussions focus on recursive construction of the relation of consequence, fundamental descriptively-semantic rules, mathematical logic and mathematical language as a material system of signs, and the substance and purpose of symbolization of mathematical language. The publication examines possibilities of symbolization; intuitive and mathematical notions of an idealized axiomatic mathematical theory; and the algebraic theory of elementary predicate logic. Topics include the notion of Boolean algebra based on joins, meets, and complementation, logical

Introduction to Digital Logic & Boolean Algebra: A Comprehensive Guide to Binary Operations, Logic Gates, Logical Expression Analysis and Number Repre

Pragmatic Logic

The Logic of Switching Circuits

Practical Introduction to the Calculus of Deductive Reasoning

Logic Functions and Equations

Boolean Algebra and Its Applications

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.

Ternary digital system is commonly known as three valued digital system. Three valued logic is an elementary set of Multiple Valued Logic, which is introduced in the book at the beginning. The book provides a detail overview of every concept required for the design and applications of ternary circuits. It covers the basic concepts for ternary logic fundamentals, ternary logic gates, its logic gate truth tables, Boolean rules for ternary logic up to ternary logic families, function synthesis and minimization techniques and an applications like one trit T-ALU, Two trit T-ALLU Slice, Ternary R-S and D memory elements and an analog to ternary converter for DSP application as a fundamental block are developed and simulated using EDA tool. Finally computer simulation using EDA (Electronic Design Automation) tools like Tanner, spice and VHDL is also illustrated. In the first half of 19 th century G.Booleen have proposed the Algebra for two valued (Binary logic) system after that Shannon has expressed the behavior of electrical switches in terms of Boolean algebra and he paved the ramp to an industrial development that is recognized as initiating one of the most revolutionary economic changes ever. MVL is also known as Multi-Valued, Multiple-Valued or Many-Valued logic. Multi-Value logic is regarded as a switch with more than two states. Such as a 3- value switch with states ‘0’, ‘1’ and ‘2’. Or a 4-value switch with states ‘0’, ‘1’, ‘2’ and ‘3’. In case of 3-Valued logic the ternary logic is used & ternary quantum logic for 4-Valued logic. Alexander (1964) showed that the most efficient radix for implementation of switching systems is the natural base $(e \approx 2.71828)$, it seems likely that the best integral radix is 3 rather than 2.1 should be noted that this book emphasis on Ternary logic with concepts and applications. The fundamental work on Multiple Valued Logic (MVL) System was done by E.L.Post in the beginning of 19 th centuries and based on that work P.C.Rosen Bloom modeled the Algebra for MVL is called Post Algebra.

This book constitutes an introduction to the theory of binary switch ing networks (binary logic circuits) such as are encountered in industrial automatic systems, in communications networks and, more particularly, in digital computers. These logic circuits, with or without memory, (sequential circuits, combinational circuits) play an increasing part in many sectors of industry. They are, naturally, to be found in digital computers where, by means of an assembly (often complex) of elementary circuits, the functions of computation and decision which are basic to the treatment of information, are performed. In their turn these computers form the heart of an increasing number of digital systems to which they are coupled by interface units which, themselves, fulfill complex functions of information processing. Thus the digital techniques penetrate ever more deeply into industrial and scientific activities in the form of systems with varying degrees of specialization, from the wired-in device with fixed structure to those systems centered on a general-purpose programmable com puter. In addition, the present possibility of mass producing microminiaturised seic logic circuits (integrated circuits, etc.) gives a foretaste of the intro duction of these techniques into the more familiar aspects of everyday life. The present work is devoted to an exposition of the algebraic techni ques necessary for the study and synthesis of such logic networks. No previous knowledge of this field of activity is necessary: any technician or engineer possessing an elementary knowledge of mathematics and electronics can undertake it reading.

Binary Fields and Economics Through Fuzzy Logic Approach and Boolean Algebra Using Multidimensional Processing with Respect to Artificial Neural Networks and Machine Learning

Understanding Boolean Algebra, Digital Circuits, and the Logic of Sets

COMPUTER FUNDAMENTALS (SEMESTER - I).

Logic gates for beginners

On which are Founded the Mathematical Theories of Logic and Probabilities

An Introduction to Biomedical Instrumentation

This book celebrates the work of Don Pigozzi on the occasion of his 80th birthday. In addition to articles written by leading specialists and his disciples, it presents Pigozzi’s scientific output and discusses his impact on the development of science. The book both catalogues his works and offers an extensive profile of Pigozzi as a person, sketching the most important events, not only related to his scientific activity, but also from his personal life. It reflects Pigozzi’s contribution to the rise and development of areas such as abstract algebraic logic (AAL), universal algebra and computer science, and introduces new scientific results. Some of the papers also present chronologically ordered facts relating to the development of the disciplines he contributed to, especially abstract algebraic logic. The book offers valuable source material for historians of science, especially those interested in history of mathematics and logic.

Concise text begins with overview of elementary mathematical concepts and outlines theory of Boolean algebras; defines operators for elimination, division, and expansion; covers syllogistic reasoning, solution of Boolean equations, functional deduction. 1990 edition.

Digital Design and Computer Organization introduces digital design as it applies to the creation of computer systems. It summarizes the tools of logic design and their mathematical basis, along with in depth coverage of combinational and sequential circuits. The book includes an accompanying CD that includes the majority of circuits highlighted in the text, delivering you hands-on experience in the simulation and observation of circuit functionality. These circuits were designed and tested with a user-friendly Electronics Workbench package (Multisim Textbook Edition) that enables your progression from truth tables onward to more complex designs. This volume differs from traditional digital design texts by providing a complete design of an AC-based CPU, allowing you to apply digital design directly to computer architecture. The book makes minimal reference to electrical properties and is vendor independent, allowing emphasis on the general design principles.

Digital Design and Computer Organisation

The Mathematical Analysis of Logic

Ternary Digital System

The Logic of Boolean Equations

A First Course in Boolean Algebra

As digital circuit elements decrease in physical size, resulting in increasingly complex systems, a basic logic model that can be used in the control and design of a range of semiconductor devices is vital. Finite State Machines (FSM) have numerous advantages; they can be applied to many areas (including motor control, and signal and serial data identification to name a few) and they use less logic than their alternatives, leading to the development of faster digital hardware systems. This clear and logical book presents a range of novel techniques for the rapid and reliable design of digital systems using FSMs, detailing exactly how and where they can be implemented. With a practical approach, it covers synchronous and asynchronous FSMs in the design of both simple and complex systems, and Petri-Net design techniques for sequential/parallel control systems. Chapters on Hardware Description Language cover the widely-used and powerful Verilog HDL in sufficient detail to facilitate the description and verification of FSMs, and FSM based systems, at both the gate and behavioural levels. Throughout, the text incorporates many real-world examples that demonstrate designs such as data acquisition, a memory tester, and passive serial data monitoring and detection, among others. A useful accompanying CD offers working Verilog software tools for the capture and simulation of design solutions. With a linear programmed learning format, this book works as a concise guide for the practising digital designer. This book will also be of importance to senior students and postgraduates of electronic engineering, who require design skills for the embedded systems market.

An Introduction to Biomedical Instrumentation presents a course of study and applications covering the basic principles of medical and biological instrumentation, as well as the typical features of its design and construction. The book aims to aid not only the cognitive domain of the readers, but also their psychomotor domain as well. Aside from the seminar topics provided, which are divided into 27 chapters, the book complements these topics with practical applications of the discussions. Figures and mathematical formulas are also given. Major topics discussed include the construction, handling, and utilization of the instruments; current, voltage, resistance, and meters; diodes and transistors; power supply; and storage and processing of data. The text will be invaluable to medical electronics students who need a reference material to help them learn how to use competently and confidently the equipment that are important in their field.

It is most logical for young coders to learn about Boolean algebra! This interactive book introduces readers to the concept of logic, which lies at the heart of coding. They’ll learn about if and until clauses, arithmetic functions, and decision-making. Budding coders will engage with these crucial topics through fun puzzles and games, and adorable robot illustrations draw in even readers who are reluctant to learn coding. This completely computer-free look at logic is accessible to all readers, making it a valuable addition to any library.

Binary Arithmetic and Boolean Algebra

Symbolic Logic, Boolean Algebra and the Design of Digital Systems

Logical Reasoning, Tests, Binary, Octal, Hexadecimal Systems, Boolean Algebra, Gates Arrangements for Hardware-Beginners

Digital Electronics: A Primer – Introductory Logic Circuit Design

Boolean Structures: Combinatorics, Codification, Representation

Don Pigozzi on Abstract Algebraic Logic, Universal Algebra, and Computer Science

Digital technology has become ubiquitous in our modern society, to the extent that we risk of being left behind and becoming cut-off if we do not adopt it! This KES aims to show why digital technology is becoming so appealing, what digital data are, what operations can be performed on them, and how digital logic theory can be used to systematically formulate solutions to several practical problems. As we become immersed in the 0’s and 1’s of a digital world, knowing the differences between the way our smart digital companions work and how we humans interpret information is of high relevance today, irrespective of the wake of life we find ourselves in with respect to digital technology. Customers are increasingly asked to understand digital terms like bits, bytes, GB, GHz and TB when selecting their next laptop or smartphone, and for anyone aspiring to get into this rapidly evolving environment as a professional, the basics and principles are a must.The underlying digital principles are also found to be a useful asset for learning computer programming, as it enables to understand the machine level operations of the computer, and hence equips one to understand unexplained behaviors of a piece of code and in troubleshooting bugs.

Multiple-Valued Logic Design: An Introduction explains the theory and applications of this increasingly important subject. Written in a clear and understandable style, the author develops the material in a skillful way. Without using a huge mathematical apparatus, he introduces the subject in a general form that includes the well-known binary logic as a special case. The book is further enhanced by more 200 explanatory diagrams and circuits, hardware and software applications with supporting PASCAL programming, and comprehensive exercises with even-numbered answers for every chapter. Requiring introductory knowledge in Boolean algebra, 2-valued logic, or 2-valued switching theory, Multiple-Valued Logic Design: An Introduction is an ideal book for courses not only in logic design, but also in switching theory, nonclassical logic, and computer arithmetic. Computer scientists, mathematicians, and electronic engineers can also use the book as a basis for research into multiple-valued logic design.

The fuzzy logic represents the relationship between precision and uncertainty. As the uncertainty in a theme is high, then less precise we can be in our conception. A binary logic admits only the opposites of true and false, a logic which does not admit digress of truth and there are no variations in magnitudes, but only two possible results. As more complex a system is, then more imprecise or inexact is the information that we have to the system. Aristotle mentioned that “If the mark of an instructed mind to rest satisfied with the degree of precision which the nature of the subject admits, and not to seek exactness where only an approximation of the truth is possible”. So, Aristotle’s logic does not admit imprecision in truth. However, Aristotle’s quote is so relevant with the approach that admits uncertainty. The theme is the balance between the precision with the uncertainty in a concept. The case of imprecision comes up from physical processes upon an imprecise human reasoning. Requiring precision in engineering models and economics means high cost and long lead times in production and development. So, considering the use of fuzzy logic then ponder the need for exploiting the tolerance for imprecision. According to the traditional view of science, uncertainty represents an undesirable situation, and must be excluded at any cost. Max Black referred to vagueness, where the possible states are not clearly. According to his essay in 1937 known as “Vagueness: An exercise in logical analysis” presented some remarks by Plato about Uncertainty in geometry. Bertrand Russell in 1923 pointed out that “all traditional logic habitually assumes that precise symbols are being employed”. So, follow some proposals.

Design Methods for Digital Systems

A Program for Self-instruction

Schaum’s Outline of Boolean Algebra and Switching Circuits

Logic and Boolean Algebra

Ones and Zeros

Digital Principles and Logic Design Techniques

We present the binary, octal, hexadecimal numeration systems with operations and conversions tests between these systems. We present the amount tables expressed in binary, octal and hexadecimal.We present complement of 1 and 2 complement and several operations with binary.We present Boolean algebra and AND, OR, NAND, NOR, OR EXCLUSIVE relationships and their Truth Tables.We present several logical reasoning tests. We present primary logical circuits or gates arrangements

Here is an introduction to modern logic that differs from others by treating logic from an algebraic perspective. What this means is that notions and results from logic become much easier to understand when seen from a familiar standpoint of algebra. The presentation, written in the engaging and provocative style that is the hallmark of Paul Halmos, from whose course the book is taken, is aimed at a broad audience, students, teachers and amateurs in mathematics, philosophy, computer science, linguistics and engineering; they all have to get to grips with logic at some stage. All that is needed to understand the book is some basic acquaintance with algebra.

Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there’s Schaum’s Outlines. More than 40 million students have trusted Schaum’s to help them succeed in the classroom and on exams. Schaum’s is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum’s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum’s highlights all the important facts you need to know. Use Schaum’s to shorten your study time-and get your best test scores! Schaum’s Outlines-Problem Solved.

Multiple Choice Questions and Answers (Quiz & Practice Tests with Answer Key) (Computer Science Quick Study Guides & Terminology Notes about Everything)

An Investigation of the Laws of Thought

Understanding Number Systems, Boolean Algebra & Logic Circuits

Logic as Algebra

Introduction to Boolean Algebra and Logic Design

DIGITAL LOGIC DESIGN

Originally published: Englewood Cliffs, N.J.: Prentice-Hall, 1962.

Outstanding features include: a history of mathematical logic, an explanation of the logic of digital circuits, and hands-on exercises and examples.

Logic functions and equations are (some of) the most important concepts of Computer Science with many applications such as Binary Arithmetics, Coding, Complexity, Logic Design, Programming, Computer Architecture and Artificial Intelligence. They are very often studied in a minimum way prior to or together with their respective applications. Based on our long-time teaching experience, a comprehensive presentation of these concepts is given, especially emphasising a thorough understanding as well as numerical and computer-based solution methods. Any applications and examples from all the respective areas are given that can be dealt with in a unified way. They offer a broad understanding of the recent developments in Computer Science and are directly applicable in professional life. Logic Functions and Equations is highly recommended for a one- or two-semester course in many Computer Science or computer Science-oriented programmes. It allows students an easy high-level access to these methods and enables sophisticated applications in many different areas. It elegantly bridges the gap between Mathematics and the required theoretical foundations of Computer Science.

Multiple-Valued Logic Design

Practice Problems in Number Systems, Logic, and Boolean Algebra

Concepts and Applications

An Introduction

How George Boole and Claude Shannon Created the Information Age

The Logician and the Engineer

Lecture Notes from the year 2015 in the subject Physics - Applied physics, , language: English, abstract: This book is written for understanding the basic concepts of logic gates and Boolean algebra that comes in Senior/Higher secondary classes. The students of these classes are not familiar with the symbols and logical operation of various basic building blocks of a digital circuit. There are plenty of instruments used in daily life that are based on the digital principles so the knowledge of these building blocks helps a lot to understand the working of these devices.

Boolean Structures: Combinatorics, Codification, Representation offers the first analytical and architectural approach to Boolean algebras based combinatorial calculus and codification with applications in IT, quantum information and classification of data.

*New, updated and expanded topics in the fourth edition include: EBCDIC, Gray 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*

Binary Models for Computer Science

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Basic Digital Electronics

Boolean Algebra for Computer Logic

Boolean Reasoning

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