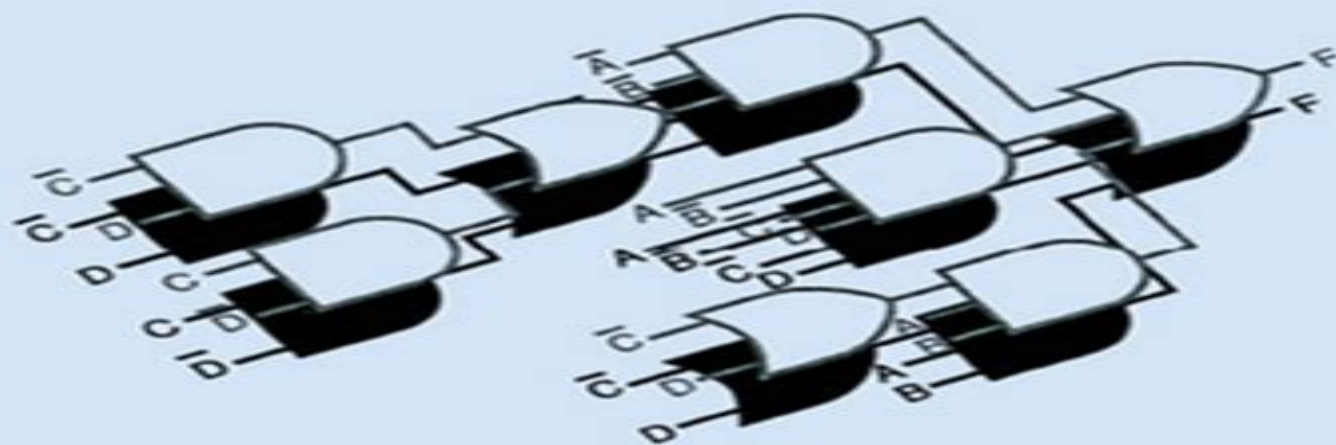


# Modern Digital Design and Switching Theory



Eugene D. Fabricius

# Modern Digital Design And Switching Theory

**John Y. Cheung, Jon G. Bredeson**



## **Modern Digital Design And Switching Theory:**

**Modern Digital Design and Switching Theory** Eugene D. Fabricius, 2017-12-14 Modern Digital Design and Switching Theory is an important text that focuses on promoting an understanding of digital logic and the computer programs used in the minimization of logic expressions Several computer approaches are explained at an elementary level including the Quine McCluskey method as applied to single and multiple output functions the Shannon expansion approach to multilevel logic the Directed Search Algorithm and the method of Consensus Chapters 9 and 10 offer an introduction to current research in field programmable devices and multilevel logic synthesis Chapter 9 covers more advanced topics in programmed logic devices including techniques for input decoding and Field Programmable Gate Arrays FPGAs Chapter 10 includes a discussion of boolean division kernels and factoring boolean tree structures rectangle covering binary decision diagrams and if then else operators Computer algorithms covered in these two chapters include weak division iterative weak division and kernel extraction by tabular methods and by rectangle covering theory Modern Digital Design and Switching Theory is an excellent textbook for electrical and computer engineering students in addition to a worthwhile reference for professionals working with integrated circuits

**Modern Digital Design and Switching Theory** Eugene D. Fabricius, 1992 *Ecobichon* Donald J. Ecobichon, Eugene D Fabricius, 1992-10-01 **Switching Theory for Logic Synthesis** Tsutomu Sasao, 2012-12-06 Switching Theory for Logic Synthesis covers the basic topics of switching theory and logic synthesis in fourteen chapters Chapters 1 through 5 provide the mathematical foundation Chapters 6 through 8 include an introduction to sequential circuits optimization of sequential machines and asynchronous sequential circuits Chapters 9 through 14 are the main feature of the book These chapters introduce and explain various topics that make up the subject of logic synthesis multi valued input two valued output function logic design for PLDs FPGAs EXOR based design and complexity theories of logic networks An appendix providing a history of switching theory is included The reference list consists of over four hundred entries Switching Theory for Logic Synthesis is based on the author's lectures at Kyushu Institute of Technology as well as seminars for CAD engineers from various Japanese technology companies Switching Theory for Logic Synthesis will be of interest to CAD professionals and students at the advanced level It is also useful as a textbook as each chapter contains examples illustrations and exercises

**Modern Switching Theory Digital Design** Lee S.C., *Modern Switching Theory and Digital Design* Samuel C. Lee, 1978 **Theory of Digital Automata** Bohdan Borowik, Mykola Karpinsky, Valery Lahno, Oleksandr Petrov, 2012-11-08 This book serves a dual purpose firstly to combine the treatment of circuits and digital electronics and secondly to establish a strong connection with the contemporary world of digital systems The need for this approach arises from the observation that introducing digital electronics through a course in traditional circuit analysis is fast becoming obsolete Our world has gone digital Automata theory helps with the design of digital circuits such as parts of computers telephone systems and control systems A complete perspective is emphasized because even the most elegant

computer architecture will not function without adequate supporting circuits The focus is on explaining the real world implementation of complete digital systems In doing so the reader is prepared to immediately begin design and implementation work This work serves as a bridge to take readers from the theoretical world to the everyday design world where solutions must be complete to be successful *Logic Synthesis for Control Automata* Samary Baranov, 2012-12-06

*Logic Synthesis for Control Automata* provides techniques for logic design of very complex control units with hardly any constraints on their size i e the number of inputs outputs and states These techniques cover all stages of control unit design including description of control unit behavior by using operator schemes of algorithms binary decision trees and various transformations of these descriptions composition decomposition minimization etc synthesis of a control automaton finite state machine synthesis of an automaton logic circuit with matrix structure as a part of LSI or VLSI circuits as multilevel circuit with logic gates with standard LSI and VLSI circuits with and without memory Each chapter contains many examples illustrating the use of the models and methods described Moreover the special last chapter demonstrates in detail the whole design methodology presented in the previous chapters through the examples of the logic design for a control unit The models methods and algorithms described in the book can be applied to a broad class of digital system design problems including design of complex controllers robots control units of computers and for designing CAD systems of VLSI circuits using FPGA PLD and SIC technologies *Logic Synthesis for Control Automata* is a valuable reference for graduate students researchers and engineers involved in the design of very complex controllers VLSI circuits and CAD systems The inclusion of many examples and problems makes it most suitable for a course on the subject **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** Brian Holdsworth, Clive Woods, 2002-11-01

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

**Analog Design Issues in Digital VLSI Circuits and Systems** Juan J.

Becerra, Eby G. Friedman, 2012-12-06 Analog Design Issues in Digital VLSI Circuits and Systems brings together in one place important contributions and up to date research results in this fast moving area Analog Design Issues in Digital VLSI Circuits and Systems serves as an excellent reference providing insight into some of the most challenging research issues in the field

Modern Digital Design Richard S. Sandige, 1990 Covers the principles of designing digital electronic circuits and presents realistic applications using integrated circuit devices The book also discusses ways to utilize programmable logic device software and hardware

Mathematical Systems Theory I Diederich Hinrichsen, Anthony J. Pritchard, 2011-08-03 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions

Computer Arithmetics for Nanoelectronics Vlad P. Shmerko, Svetlana N. Yanushkevich, Sergey Edward Lyshevski, 2018-10-03 Emphasizes the Basic Principles of Computational Arithmetic and Computational Structure Design Taking an interdisciplinary approach to the nanoscale generation of computer devices and systems Computer Arithmetics for Nanoelectronics develops a consensus between computational properties provided by data structures and phenomenological properties of nano and molecular technology Covers All Stages of the Design Cycle from Task Formulation to Molecular Based Implementation The book introduces the theoretical base and properties of various data structures along with techniques for their manipulation optimization and implementation It also assigns the computational properties of logic design data structures to 3D structures furnishes information theoretical measures and design aspects and discusses the testability problem The last chapter presents a nanoscale prospect for natural computing based on assorted computing paradigms from nature Balanced Coverage of State of the Art Concepts Techniques and Practices Up to date comprehensive and pragmatic in its approach this text provides a unified overview of the relationship between the fundamentals of digital system design computer architectures and micro and nanoelectronics

*Reasoning in Boolean Networks* Wolfgang Kunz, Dominik Stoffel, 1997-06-30 Reasoning in Boolean Networks provides a detailed treatment of recent research advances in algorithmic techniques for logic synthesis test generation and formal verification of digital circuits The book presents the central idea of approaching design automation problems for logic level circuits by specific Boolean reasoning techniques While Boolean reasoning techniques have been a central element of two level circuit theory for many decades Reasoning in Boolean Networks describes a basic reasoning methodology for multi level circuits This leads to a unified view on two level and multi level logic synthesis The presented reasoning techniques are applied to various CAD problems to demonstrate their usefulness for today s industrially relevant problems Reasoning in Boolean Networks provides lucid descriptions of basic algorithmic concepts in automatic test pattern generation logic

synthesis and verification and elaborates their intimate relationship to provide further intuition and insight into the subject Numerous examples are provide for ease in understanding the material Reasoning in Boolean Networks is intended for researchers in logic synthesis VLSI testing and formal verification as well as for integrated circuit designers who want to enhance their understanding of basic CAD methodologies *Modern Digital Systems Design* John Y. Cheung,Jon G. Bredeson,1990 Modern Switching Theory and Digital Design G. Wayne Ivie,1978 The Electronics Handbook Jerry C. Whitaker,2018-10-03 During the ten years since the appearance of the groundbreaking bestselling first edition of The Electronics Handbook the field has grown and changed tremendously With a focus on fundamental theory and practical applications the first edition guided novice and veteran engineers along the cutting edge in the design production installation operation and maintenance of electronic devices and systems Completely updated and expanded to reflect recent advances this second edition continues the tradition The Electronics Handbook Second Edition provides a comprehensive reference to the key concepts models and equations necessary to analyze design and predict the behavior of complex electrical devices circuits instruments and systems With 23 sections that encompass the entire electronics field from classical devices and circuits to emerging technologies and applications The Electronics Handbook Second Edition not only covers the engineering aspects but also includes sections on reliability safety and engineering management The book features an individual table of contents at the beginning of each chapter which enables engineers from industry government and academia to navigate easily to the vital information they need This is truly the most comprehensive easy to use reference on electronics available

*Proofs and Fundamentals* Ethan D. Bloch,2013-12-01 In an effort to make advanced mathematics accessible to a wide variety of students and to give even the most mathematically inclined students a solid basis upon which to build their continuing study of mathematics there has been a tendency in recent years to introduce students to the for mulation and writing of rigorous mathematical proofs and to teach topics such as sets functions relations and countability in a transition course rather than in traditional courses such as linear algebra A transition course functions as a bridge between computational courses such as Calculus and more theoretical courses such as linear algebra and abstract algebra This text contains core topics that I believe any transition course should cover as well as some optional material intended to give the instructor some flexibility in designing a course The presentation is straightforward and focuses on the essentials without being too elementary too exces sively pedagogical and too full to distractions Some of features of this text are the following 1 Symbolic logic and the use of logical notation are kept to a minimum We discuss only what is absolutely necessary as is the case in most advanced mathematics courses that are not focused on logic per se Computer Architecture John Y. Hsu,2017-12-19 With the new developments in computer architecture fairly recent publications can quickly become outdated Computer Architecture Software Aspects Coding and Hardware takes a modern approach This comprehensive practical text provides that critical understanding of a central processor by clearly detailing fundamentals and cutting edge design features

With its balanced software hardware perspective and its description of Pentium processors the book allows readers to acquire practical PC software experience The text presents a foundation level set of ideas design concepts and applications that fully meet the requirements of computer organization and architecture courses The book features a bottom up computer design approach based upon the author s thirty years experience in both academe and industry By combining computer engineering with electrical engineering the author describes how logic circuits are designed in a CPU The extensive coverage of a microprogrammed CPU and new processor design features gives the insight of current computer development Computer Architecture Software Aspects Coding and Hardware presents a comprehensive review of the subject from beginner to advanced levels Topics include o Two s complement numbers o Integer overflow o Exponent overflow and underflow o Looping o Addressing modes o Indexing o Subroutine linking o I O structures o Memory mapped I O o Cycle stealing o Interrupts o Multitasking o Microprogrammed CPU o Multiplication tree o Instruction queue o Multimedia instructions o Instruction cache o Virtual memory o Data cache o Alpha chip o Interprocessor communications o Branch prediction o Speculative loading o Register stack o JAVA virtual machine o Stack machine principles

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