

Switching Theory and Logic Design



Logic Design And Switching Theory

Annelies Wilder-Smith



Logic Design And Switching Theory:

Introduction to Switching Theory and Logical Design Frederick J. Hill, Gerald R. Peterson, 1981 For upper level undergraduate courses Fundamentals of Logic Design and Switching Theory Arthur D. Friedman, 1986 Switching Theory and Logic Design C. S. Rao, 2005-09 Fundamentals of Switching Theory and Logic Design Jaakko Astola, Radomir S. Stankovic, 2006-03-06 Switching theory and logic design provide mathematical foundations and tools for digital system design that is an essential part in the research and development in almost all areas of modern technology The vast complexity of modern digital systems implies that they can only be handled by computer aided design tools that are built on sophisticated mathematical models Fundamentals of Switching Theory and Logic Design is aimed at providing an accessible introduction to these mathematical techniques that underlie the design tools and that are necessary for understanding their capabilities and limitations As is typical to many disciplines a high level of abstraction enables a unified treatment of many methodologies and techniques as well as provides a deep understanding of the subject in general The drawback is that without a hands on touch on the details it is difficult to develop an intuitive understanding of the techniques We try to combine these views by providing hands on examples on the techniques while binding these to the more general theory that is developed in parallel For instance the use of vector spaces and group theory unifies the spectral Fourier like interpretation of polynomial and graphic decision diagrams representations of logic functions as well as provides new methods for optimization of logic functions Consequently Fundamentals of Switching Theory and Logic Design discusses the fundamentals of switching theory and logic design from a slightly alternative point of view and also presents links between switching theory and related areas of signal processing and system theory It also covers the core topics recommended in IEEE ACM curricula for teaching and study in this area Further it contains several elective sections discussing topics for further research work in this area *Switching Theory and Logic Design* Rao, C. V. S., 2005 Switching Theory and Logic Design is for a first level introductory course on digital logic design This book illustrates the usefulness of switching theory and its applications with examples to acquaint the student with the necessary background This book has been designed as a prerequisite to many other courses like Digital Integrated Circuits Computer Organisation Digital Instrumentation Digital Control Digital Communications and Hardware Description Languages **Switching Theory and Logic Design** A. Anand Kumar, 2008 The book provides an in depth knowledge of switching theory and the design techniques of digital circuits Striking a balance between theory and practice it covers topics ranging from number systems binary codes logic gates and Boolean algebra to minimization using K maps and tabular method design of combinational logic circuits synchronous and asynchronous sequential circuits and algorithmic state machines The book discusses threshold gates and programmable logic devices PLDs In addition it elaborates on flip flops and shift registers Publisher s description Theory & Design of Switching Circuits Arthur D. Friedman, Premachandran R. Menon, 1975 1 ex uitleenbaar 1 ex niet uitleenbaar *Switching*

Circuits; Theory and Logic Design H. C. Torng, 1972 *Fundamentals of Switching Theory and Logic Design* Duncan Hodgson, 2023-09-19 Switching theory refers to the abstract mathematical formalization used in the logic design of digital networks The modern logic networks are usually constructed using electronic integrated circuits ICs which consist of logical elements such as inverters AND gates and OR gates The basic component of modern digital system is two valued Boolean algebra sometimes referred to as switching algebra It is used as a notation to represent the operation of such logic networks Boolean algebra performs three basic operations These include inversion logical addition and logical multiplication These operations are implemented directly by logic gates called inverters OR gates and AND gates Switching theory plays an instrumental role in data processing telephone and other technologies wherein the decisions are made about routing information This book provides in depth knowledge of switching theory and logic design Researchers and students in the field of electronics and communication and electrical engineering will be greatly assisted by it *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 **Switching Theory and Logic Design** M. V. Subramanyam, 2008-05 *Logic Design and Switching Theory* Saburo Muroga, 1979-05 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

Logic Design Jaden Mclean & Carmen Hurley, 2019-11-07 The book attempts to achieve a balance between theory and application For this reason the book does not over emphasize the mathematics of switching theory however it does present the theory which is necessary for understanding the fundamental concepts of logic design Written in a student friendly style the book provides an in depth knowledge of logic design Striking a balance between theory and practice it covers topics ranging from number systems binary codes logic gates and Boolean algebra design of combinational logic circuits synchronous and asynchronous sequential circuits etc The main emphasis of this book is to highlight the theoretical concepts and systematic synthesis techniques that can be applied to the design of practical digital systems This comprehensive book is written for the graduate students of electronics and communication engineering electrical and electronics engineering instrumentation engineering telecommunication engineering computer science and engineering and information technology

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