

MATHEMATICAL THEORY OF SWITCHING CIRCUITS AND AUTOMATA

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Subrata Dasgupta



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Mathematical Theory of Switching Circuits and Automata Sze-Tsen Hu, 2023-11-15 By applying Boolean algebra to the designing of circuits C E Shannon practically created the switching theory which is necessary to the development of electronic computers For the next three decades much research was done and most of the major problems of logical design were solved Recent interest having focused on the purely theoretical aspects of computer and logical networks Hu now believes that the time has come for a consolidation of the mathematical foundations of the subject In the present book the author accordingly undertakes to establish a new branch of pure mathematics with a uniform notation and terminology by organizing the past research results into a form usable to both mathematicians and engineers while simplifying theory by stripping it of complex hardware considerations as well as of all unnecessary advanced mathematics A number of exercises have been provided at the end of each chapter By applying Boolean algebra to the designing of circuits C E Shannon practically created the switching theory which is necessary to the development of electronic computers For the next three decades much research was done and most of the major problem

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From Boolean Logic to Switching Circuits and Automata Radomir S. Stankovic, Jaakko Astola, 2011-03-19 Logic networks and automata are facets of digital systems The change of the design of logic networks from skills and art into a scientific discipline was possible by the development of the underlying mathematical theory called the Switching Theory The fundamentals of this theory come from the attempts towards an algebraic description of laws of thoughts presented in the works by George J Boole and the works on logic by Augustus De Morgan As often the case in engineering when the importance of a problem and the need for solving it reach certain limits the solutions are searched by many scholars in different parts of the world simultaneously or at about the same time however quite independently and often unaware of the work by other scholars The formulation and rise of Switching Theory is such an example This book presents a brief account of the developments of Switching Theory and highlights some less known facts in the history of it The readers will find the book a fresh look into the development of the field revealing how difficult it has been to arrive at many of the concepts that we now consider obvious Researchers in the history or philosophy of computing will find this book a valuable source of information that complements the standard presentations of the topic

The Algebraic Theory of Switching Circuits Gr. C. Moisil, 2014-07-10 The Algebraic Theory of Switching Circuits covers the application of various algebraic tools to the delineation of the algebraic theory of switching circuits for automation with contacts and relays This book is organized into five parts encompassing 31 chapters Part I deals with the principles and application of Boolean algebra and the theory of finite fields Galois fields Part II emphasizes the importance of the sequential operation of the automata and the variables associated to the current and to the contacts This part also tackles the recurrence relations that describe operations of the network and the principles of the so called characteristic equations Part III reviews the study of networks with secondary

elements other than ordinary relays while Part IV focuses on the fundamentals and application of multi position contacts Part V considers several topics related to circuit with electronic elements including triodes pentodes transistors and cryotrons This book will be of great value to practicing engineers mathematicians and workers in the field of computers *Boolean Models and Methods in Mathematics, Computer Science, and Engineering* Yves Crama, Peter L. Hammer, 2010-06-28 A collection of papers written by prominent experts that examine a variety of advanced topics related to Boolean functions and expressions **Theoretical Immunology, Part One** Alan S. Perelson, 2018-03-05 Assuming that the complex phenomena underlying the operation of the immune system may be better understood through the collaborative efforts of theorists and experimentalists viewing the same phenomena in different ways the Sante Fe Institute and the Theoretical Division of Los Alamos National Laboratory cosponsored a workshop entitled Theoretical Immunology The workshop focused on themes spanning the field of immunology with emphasis on areas where the theorists have made the most progress This book covers the discussions at that workshop on the topics of immune surveillance mathematical models of HIV infection complexities of antigen antibody systems immune suppression and tolerance and idiotypic networks In each of these areas there is reason to believe that advances can be made either through interactions among experimentalists and theorists or through the critical look experimentalists and theorists will bring to bear upon one another's work OAR Index of Research Results ,1967

Encyclopedia of Computer Science and Technology Jack Belzer, 1975-09-01 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions *OAR Quarterly Index of Current Research Results* United States. Air Force. Office of Aerospace Research, 1967 *OAR Cumulative Index of Research Results* ,1967 The Second Age of Computer Science Subrata Dasgupta, 2018-05-01 By the end of the 1960s a new discipline named computer science had come into being A new scientific paradigm the computational paradigm was in place suggesting that computer science had reached a certain level of maturity Yet as a science it was still precociously young New forces some technological some socio economic some cognitive impinged upon it the outcome of which was that new kinds of computational problems arose over the next two decades Indeed by the beginning of the 1990 s the structure of the computational paradigm looked markedly different in many important respects from how it was at the end of the 1960s Author Subrata Dasgupta named the two decades from 1970 to 1990 as the second age of computer science to distinguish it from the preceding genesis of the science and the age of the Internet World Wide Web that followed This book describes the evolution of computer science in this second age in the form of seven overlapping intermingling parallel histories that unfold concurrently in the course of the two decades Certain themes characteristic of this second age thread through this narrative the desire for a genuine science

of computing the realization that computing is as much a human experience as it is a technological one the search for a unified theory of intelligence spanning machines and mind the desire to liberate the computational mind from the shackles of sequentiality and most ambitiously a quest to subvert the very core of the computational paradigm itself We see how the computer scientists of the second age address these desires and challenges in what manner they succeed or fail and how along the way the shape of computational paradigm was altered And to complete this history the author asks and seeks to answer the question of how computer science shows evidence of progress over the course of its second age *Encyclopedia of Computer Science and Technology* Allen Kent,James G. Williams,1992-03-20 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions **Computers; Selected Bibliographic Citations**

Announced in U.S. Government Research and Development Reports, 1966 United States. Office of State Technical Services,1968 **Research in Progress** ,1972 **Mathematical Aspects of Computer Science** Jacob T. Schwartz,American Mathematical Society,1967-12-31 *AFOSR Research: the Current Research Program, and a Summary of Research Accomplishments* United States. Air Force. Office of Scientific Research,1967 This report is designed to present the research programs of the Air Force Office of Scientific Research for the information of users of Air Force research for scientific investigators working in the same or in allied fields and for the military scientific and academic and Government communities at large **A Short History of Circuits and Systems** Franco Maloberti,Anthony C. Davies,2022-09-01 After an overview of major scientific discoveries of the 18th and 19th centuries which created electrical science as we know and understand it and led to its useful applications in energy conversion transmission manufacturing industry and communications this Circuits and Systems History book fills a gap in published literature by providing a record of the many outstanding scientists mathematicians and engineers who laid the foundations of Circuit Theory and Filter Design from the mid 20th Century Additionally the book records the history of the IEEE Circuits and Systems Society from its origins as the small Circuit Theory Group of the Institute of Radio Engineers IRE which merged with the American Institute of Electrical Engineers AIEE to form IEEE in 1963 to the large and broad coverage worldwide IEEE Society which it is today Many authors from many countries contributed to the creation of this book working to a very tight time schedule The result is a substantial contribution to their enthusiasm and expertise which it is hoped that readers will find both interesting and useful It is sure that in such a book omissions will be found and in the space and time available much valuable material had to be left out It is hoped that this book will stimulate an interest in the marvellous heritage and contributions that have come from the many outstanding people who worked in the Circuits and Systems area *U.S. Government Research & Development*

Reports, 1969 *Elements of Computation Theory* Arindama Singh, 2009-04-30 The foundation of computer science is built upon the following questions What is an algorithm What can be computed and what cannot be computed What does it mean for a function to be computable How does computational power depend upon programming constructs Which algorithms can be considered feasible For more than 70 years computer scientists are searching for answers to such questions Their ingenious techniques used in answering these questions form the theory of computation Theory of computation deals with the most fundamental ideas of computer science in an abstract but easily understood form The notions and techniques employed are widely spread across various topics and are found in almost every branch of computer science It has thus become more than a necessity to revisit the foundation learn the techniques and apply them with confidence Overview and Goals This book is about this solid beautiful and pervasive foundation of computer science It introduces the fundamental notions models techniques and results that form the basic paradigms of computing It gives an introduction to the concepts and mathematics that computer scientists of our day use to model to argue about and to predict the behavior of algorithms and computation The topics chosen here have shown remarkable persistence over the years and are very much in current use **The Space of Mathematics** Javier Echeverria, Andoni Ibarra, Thomas Mormann, 2012-10-25 No detailed description available for The Space of Mathematics

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