Studies in Feedback Shift-register Synthesis of Sequential Machines (Research Monograph)

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United States. Air Force. Office of Aerospace Research

Studies In Feedback Shift Register Synthesus Of Sequential Machines:

   Studies in Feedback-shift-register Synthesis of Sequential Machines Robert Lanham Martin,1969   **Synthesis of Finite State Machines** Tiziano Villa,Timothy Kam,Robert K. Brayton,Alberto L. Sangiovanni-Vincentelli,2012-12-06 Synthesis of Finite State Machines Logic Optimization is the second in a set of two monographs devoted to the synthesis of Finite State Machines FSMs The first volume Synthesis of Finite State Machines Functional Optimization addresses functional optimization whereas this one addresses logic optimization The result of functional optimization is a symbolic description of an FSM which represents a sequential function chosen from a collection of permissible candidates Logic optimization is the body of techniques for converting a symbolic description of an FSM into a hardware implementation The mapping of a given symbolic representation into a two valued logic implementation is called state encoding or state assignment and it impacts heavily area speed testability and power consumption of the realized circuit The first part of the book introduces the relevant background presents results previously scattered in the literature on the computational complexity of encoding problems and surveys in depth old and new approaches to encoding in logic synthesis The second part of the book presents two main results about symbolic minimization a new procedure to find minimal two level symbolic covers under face dominance and disjunctive constraints and a unified frame to check encodability of encoding constraints and find codes of minimum length that satisfy them The third part of the book introduces generalized prime implicants GPIs which are the counterpart in symbolic minimization of two level logic to prime implicants in two valued two level minimization GPIs enable the design of an exact procedure for two level symbolic minimization based on a covering step which is complicated by the need to guarantee encodability of the final cover A new efficient algorithm to verify encodability of a selected cover is presented If a cover is not encodable it is shown how to augment itminimally until an encodable superset of GPIs is determined To handle encodability the authors have extended the frame to satisfy encoding constraints presented in the second part The covering problems generated in the minimization of GPIs tend to be very large Recently large covering problems have been attacked successfully by representing the covering table with binary decision diagrams BDD In the fourth part of the book the authors introduce such techniques and extend them to the case of the implicit minimization of GPIs where the encodability and augmentation steps are also performed implicitly Synthesis of Finite State Machines Logic Optimization will be of interest to researchers and professional engineers who work in the area of computer aided design of integrated circuits   **Coding Approaches to Fault Tolerance in Combinational and Dynamic Systems** Christoforos N. Hadjicostis,2012-12-06 Coding Approaches to Fault Tolerance in Combinational and Dynamic Systems describes coding approaches for designing fault tolerant systems i e systems that exhibit structured redundancy that enables them to distinguish between correct and incorrect results or between valid and invalid states Since redundancy is expensive and counter intuitive to the traditional notion of system design the book focuses on resource efficient methodologies that

avoid excessive use of redundancy by exploiting the algorithmic dynamic structure of a particular combinational or dynamic system The first part of Coding Approaches to Fault Tolerance in Combinational and Dynamic Systems focuses on fault tolerant combinational systems providing a review of von Neumann s classical work on Probabilistic Logics including some more recent work on noisy gates and describing the use of arithmetic coding and algorithm based fault tolerant schemes in algebraic settings The second part of the book focuses on fault tolerance in dynamic systems Coding Approaches to Fault Tolerance in Combinational and Dynamic Systems also discusses how in a dynamic system setting one can relax the traditional assumption that the error correcting mechanism is fault free by using distributed error correcting mechanisms The final chapter presents a methodology for fault diagnosis in discrete event systems that are described by Petri net models coding techniques are used to quickly detect and identify failures From the Foreword Hadjicostis has significantly expanded the setting to processes occurring in more general algebraic and dynamic systems The book responds to the growing need to handle faults in complex digital chips and complex networked systems and to consider the effects of faults at the design stage rather than afterwards George Verghese Massachusetts Institute of Technology Coding Approaches to Fault Tolerance in Combinational and Dynamic Systems will be of interest to both researchers and practitioners in the area of fault tolerance systems design and control   *Shift Register Sequences: Secure And Limited-access Code Generators, Efficiency Code Generators, Prescribed Property Generators, Mathematical Models (Third Revised Edition)* Solomon W Golomb,2017-01-25 Shift register sequences cover a broad range of applications from radar signal design pseudo random number generation digital wireless telephony and many other areas in coded communications It is the primary area for which the author Dr Golomb received the US National Medal of Science This book is the third revised edition of the original definitive book on shift register sequences which was published in 1967 which has been widely distributed read and cited It has stood the test of time and provides a clear comprehensive and readily applicable description of both linear and non linear shift register sequences   *Computer Aided Systems Theory - EUROCAST '93* Franz Pichler,Roberto Moreno Diaz,1994-01-28 This volume contains a selection of papers presented at the third European Computer Aided Systems Theory workshop EUROCAST 93 held in Spain in February 1993 The workshop emphasizes interdisciplinarity with the specificgoal of creating a synergy between fields such as systems theory computer science systems engineering and related areas The contributions in this volume are strongly related to current problems in CAST research They emphasize an engineering point of view concerning systems theory Since the computer is an essential instrument in CAST research there are close relations to specific topics incomputer science The papers are grouped into parts on systems theory and systems technology specific methods and applications   **Applications of Automata Theory and Algebra** John L. Rhodes,Chrystopher L. Nehaniv,2010 This book was originally written in 1969 by Berkeley mathematician John Rhodes It is the founding work in what is now called algebraic engineering an emerging field created by using the unifying scheme of finite state machine models and their complexity to tie

together many fields finite group theory semigroup theory automata and sequential machine theory finite phase space physics metabolic and evolutionary biology epistemology mathematical theory of psychoanalysis philosophy and game theory The author thus introduced a completely original algebraic approach to complexity and the understanding of finite systems The unpublished manuscript often referred to as The Wild Book became an underground classic continually requested in manuscript form and read by many leading researchers in mathematics complex systems artificial intelligence and systems biology Yet it has never been available in print until now This first published edition has been edited and updated by Chrystopher Nehaniv for the 21st century Its novel and rigorous development of the mathematical theory of complexity via algebraic automata theory reveals deep and unexpected connections between algebra semigroups and areas of science and engineering Co founded by John Rhodes and Kenneth Krohn in 1962 algebraic automata theory has grown into a vibrant area of research including the complexity of automata and semigroups and machines from an algebraic viewpoint and which also touches on infinite groups and other areas of algebra This book sets the stage for the application of algebraic automata theory to areas outside mathematics The material and references have been brought up to date bythe editor as much as possible yet the book retains its distinct character and the bold yet rigorous style of the author Included are treatments of topics such as models of time as algebra via semigroup theory evolution complexity relations applicable to both ontogeny and evolution an approach to classification of biological reactions and pathways the relationships among coordinate systems symmetry and conservation principles in physics discussion of punctuated equilibrium prior to Stephen Jay Gould games and applications to psychology psychoanalysis epistemology and the purpose of life The approach and contents will be of interest to a variety of researchers and students in algebra as well as to the diverse growing areas of applications of algebra in science and engineering Moreover many parts of the book will be intelligible to non mathematicians including students and experts from diverse backgrounds   **Theory & Design of Switching Circuits** Arthur D. Friedman,Premachandran R. Menon,1975 1 ex uitleenbaar 1 ex niet uitleenbaar   Shift Register Sequences Solomon Wolf Golomb,1982   *IEEE VLSI Test Symposium* ,1993   Optimal Algorithms Hristo Djidjev,1989-11-08 This volume brings together papers from various fields of theoretical computer science including computational geometry parallel algorithms algorithms on graphs data structures and complexity of algorithms Some of the invited papers include surveys of results in particular fields and some report original research while all the contributed papers report original research Most of the algorithms given are for parallel models of computation The papers were presented at the Second International Symposium on Optimal Algorithms held in Varna Bulgaria in May June 1989 The volume will be useful to researchers and students in theoretical computer science especially in parallel computing   **Footprints in Cambridge and Aviation Industries of China** Yanzhong Zhang,2021-09-19 The book is a collection of academician Yanzhong Zhang s research papers published in English It represents the development of aerospace systems engineering and information technology in China over the past 4 decades

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