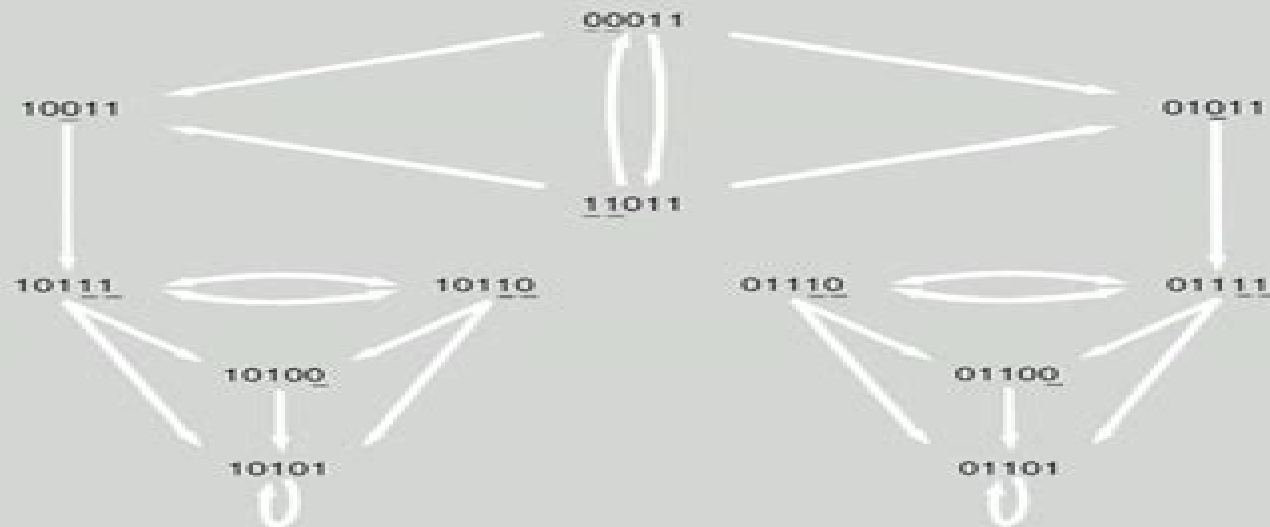


MONOGRAPHS IN COMPUTER SCIENCE

ASYNCHRONOUS CIRCUITS

Janusz A. Brzozowski
Carl-Johan H. Seger



Springer-Verlag

Asynchronous Circuits Monographs In Computer Science

David Kirk



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Asynchronous Circuits Janusz A. Brzozowski, Carl-Johan H. Seger, 1995-02-24 In recent years there has been a great surge of interest in asynchronous circuits largely through the development of new asynchronous design methodologies This book provides a comprehensive theory of asynchronous circuits including modelling analysis simulation specification verification and an introduction to their design

Asynchronous Circuits Janusz A. Brzozowski, Carl-Johan H. Seger, 2012-12-06 Although asynchronous circuits date back to the early 1950s most of the digital circuits in use today are synchronous because traditionally asynchronous circuits have been viewed as difficult to understand and design In recent years however there has been a great surge of interest in asynchronous circuits largely through the development of new asynchronous design methodologies This book provides a comprehensive theory of asynchronous circuits including modelling analysis simulation specification verification and an introduction to their design It is based on courses given to graduate students and will be suitable for computer scientists and engineers involved in the research and development of asynchronous designs

Principles of Asynchronous Circuit Design Jens Sparsø, Steve Furber, 2013-04-17 Principles of Asynchronous Circuit Design A Systems Perspective addresses the need for an introductory text on asynchronous circuit design Part I is an 8 chapter tutorial which addresses the most important issues for the beginner including how to think about asynchronous systems Part II is a 4 chapter introduction to Balsa a freely available synthesis system for asynchronous circuits which will enable the reader to get hands on experience of designing high level asynchronous systems Part III offers a number of examples of state of the art asynchronous systems to illustrate what can be built using asynchronous techniques The examples range from a complete commercial smart card chip to complex microprocessors The objective in writing this book has been to enable industrial designers with a background in conventional clocked design to be able to understand asynchronous design sufficiently to assess what it has to offer and whether it might be advantageous in their next design task

Role Of Theory In Computer Science, The: Essays Dedicated To Janusz Brzozowski Stavros Konstantinidis, Nelma Moreira, Rogerio Reis, Jeffrey Shallit, 2017-04-25 This volume brings together the work of several prominent researchers who have collaborated with Janusz Brzozowski or worked in topics he developed in the areas of regular languages syntactic semigroups of formal languages the dot depth hierarchy and formal modeling of circuit testing and software specification using automata theory

Asynchronous Operators of Sequential Logic: Venjunction & Sequection Vadim Vasyukevich, 2011-06-18 This book is dedicated to new mathematical instruments assigned for logical modeling of the memory of digital devices The case in point is logic dynamical operation named venjunction and venjunctive function as well as sequection and sequectional function Venjunction and sequection operate within the framework of sequential logic In a form of the corresponding equations they organically fit analytical expressions of Boolean algebra Thus a sort of symbiosis is formed using elements of asynchronous sequential logic on the one hand and combinational logic on the other hand So

asynchronous logic is represented in the form of enhanced Boolean logic The book contains initial concepts fundamental definitions statements principles and rules needed for theoretical justification of the mathematical apparatus and its validity for asynchronous logic Asynchronous operators named venjunctor and sequentor are designed for practical implementation These basic elements are assigned for realizing of memory functions in sequential circuits Present research work is the final stage of generalization and systematization of all those ideas and investigations author s interest to which alternately flashed up and faded over many years and for various reasons until formed critical mass and all findings were arranged definitively as a mathematical basis of a theory appropriately associated under a common theme asynchronous sequential logic essentially classified as switching logic which falls into category of algebraic logics

Model-Based Testing for Embedded Systems Justyna Zander, Ina Schieferdecker, Pieter J. Mosterman, 2017-12-19 What the experts have to say about Model Based Testing for Embedded Systems This book is exactly what is needed at the exact right time in this fast growing area From its beginnings over 10 years ago of deriving tests from UML statecharts model based testing has matured into a topic with both breadth and depth Testing embedded systems is a natural application of MBT and this book hits the nail exactly on the head Numerous topics are presented clearly thoroughly and concisely in this cutting edge book The authors are world class leading experts in this area and teach us well used and validated techniques along with new ideas for solving hard problems It is rare that a book can take recent research advances and present them in a form ready for practical use but this book accomplishes that and more I am anxious to recommend this in my consulting and to teach a new class to my students Dr Jeff Offutt professor of software engineering George Mason University Fairfax Virginia USA This handbook is the best resource I am aware of on the automated testing of embedded systems It is thorough comprehensive and authoritative It covers all important technical and scientific aspects but also provides highly interesting insights into the state of practice of model based testing for embedded systems Dr Lionel C Briand IEEE Fellow Simula Research Laboratory Lysaker Norway and professor at the University of Oslo Norway As model based testing is entering the mainstream such a comprehensive and intelligible book is a must read for anyone looking for more information about improved testing methods for embedded systems Illustrated with numerous aspects of these techniques from many contributors it gives a clear picture of what the state of the art is today Dr Bruno Legeard CTO of Smartesting professor of Software Engineering at the University of Franche Comt Besan on France and co author of Practical Model Based Testing

A Discipline of Multiprogramming Jayadev Misra, 2012-09-07 In this book a programming model is developed that addresses the fundamental issues of large scale programming unifying several concepts from database theory object oriented programming and designs of reactive systems The model and the associated theory have been christened Seuss The major goal of Seuss is to simplify multiprogramming To this end we separate the concern of concurrent implementation from the core program design problem A program execution is understood as a single thread of control sequential executions of actions that are chosen according to

some scheduling policy yet program implementation permits concurrent executions of multiple threads As a consequence it is possible to reason about the properties of a program from its single execution thread whereas an implementation may exploit the inherent concurrency for efficient execution

Theorem Provers in Circuit Design Ramayya Kumar,Thomas

Kropf,1995-03-06 This two volume set contains papers presented at the International Conference on Computational Engineering Science ICES 95 held in Mauna Lani Hawaii from 30 July to 3 August 1995 The contributions capture the state of the science in computational modeling and simulation in a variety of engineering disciplines civil mechanical aerospace materials and electronics engineering

Foundations of Software Technology and Theoretical Computer Science

Rudrapatna K. Shyamasundar,1993-11-23 For more than a decade Foundations of Software Technology and Theoretical Computer Science Conferences have been providing an annual forum for the presentation of new research results in India and abroad This year 119 papers from 20 countries were submitted Each paper was reviewed by at least three reviewers and 33 papers were selected for presentation and included in this volume grouped into parts on type theory parallel algorithms term rewriting logic and constraint logic programming computational geometry and complexity software technology concurrency distributed algorithms and algorithms and learning theory Also included in the volume are the five invited papers presented at the conference

Foundations of Software Science and Computational Structures Luca De

Alfaro,2009-03-09 This book constitutes the refereed proceedings of the 12th International Conference on Foundations of Software Science and Computational Structures FOSSACS 2009 held in York UK in March 2009 as part of ETAPS 2009 the European Joint Conferences on Theory and Practice of Software The 30 revised full papers presented together with two invited talks were carefully reviewed and selected from 102 full paper submissions The topics addressed are semantics logics and automata algebras automata theory processes and models security probabilistic and quantitative models synthesis and program analysis and semantics

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