

Sunil P. Khatri  
Kanupriya Gulati *Editors*

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# Advanced Techniques in Logic Synthesis, Optimizations and Applications

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 Springer

# Advanced Techniques In Logic Synthesis Optimizations And Applications

**Kanupriya Gulati**

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

## **Advanced Techniques In Logic Synthesis Optimizations And Applications:**

**Advanced Techniques in Logic Synthesis, Optimizations and Applications** Kanupriya Gulati, 2010-11-25 This book covers recent advances in the field of logic synthesis and design including Boolean Matching Logic Decomposition Boolean satisfiability Advanced Synthesis Techniques and Applications of Logic Design All of these topics are valuable to CAD engineers working in Logic Design Logic Optimization and Verification Engineers seeking opportunities for optimizing VLSI integrated circuits will find this book as an invaluable reference since there is no existing book that covers this material in a systematic fashion *Advanced Techniques in Logic Synthesis, Optimizations and Applications* Kanupriya Gulati, 2011-03-30

**Advanced Boolean Techniques** Rolf Drechsler, Mathias Soeken, 2019-07-08 This book describes recent findings in the domain of Boolean logic and Boolean algebra covering application domains in circuit and system design but also basic research in mathematics and theoretical computer science Content includes invited chapters and a selection of the best papers presented at the 13th annual International Workshop on Boolean Problems Provides a single source reference to the state of the art research in the field of logic synthesis and Boolean techniques Includes a selection of the best papers presented at the 13th annual International Workshop on Boolean Problems Covers Boolean algebras Boolean logic Boolean modeling Combinatorial Search Boolean and bitwise arithmetic Software and tools for the solution of Boolean problems Applications of Boolean logic and algebras Applications to real world problems Boolean constraint solving and Extensions of Boolean logic *Single-Event Effects, from Space to Accelerator Environments* Ygor Quadros de Aguiar, Frédéric Wrobel, Jean-Luc Autran, Rubén García Alía, 2024-10-17 This book describes the fundamental concepts underlying radiation induced failure mechanisms in electronic components operating in harsh environments such as in space missions or in particle accelerators In addition to providing an extensive overview of the dynamics and composition of different radiation environments the authors discuss the failure mechanisms known as single event effects SEEs and dedicated failure modeling and prediction methodologies Additionally novel radiation hardening by design RHBD techniques at physical layout and circuit levels are described Readers who are newcomers to this field will learn the fundamental concepts of particle interaction physics and electronics hardening design starting from the composition and dynamics of radiation environments and their effects on electronics to the qualification and hardening of components Experienced readers will enjoy the comprehensive discussion of the state of the art in modeling simulation and analysis of radiation effects developed in the recent years especially the outcome of the recent European project RADSAGA Describes both the fundamental concepts underlying radiation effects in electronics and state of the art hardening methodologies Addresses failure mechanisms known as single event effects SEEs and dedicated failure modeling and prediction methodologies Reveals novel radiation hardening by design RHBD techniques at physical layout and circuit levels Offers readers the first book in which particle accelerator applications will be extensively included in the radiation effects context This is an open access book *Logic Functions and*

*Equations* Bernd Steinbach, Christian Posthoff, 2022-06-06 The greatly expanded and updated 3rd edition of this textbook offers the reader a comprehensive introduction to the concepts of logic functions and equations and their applications across computer science and engineering The authors approach emphasizes a thorough understanding of the fundamental principles as well as numerical and computer based solution methods The book provides insight into applications across propositional logic binary arithmetic coding cryptography complexity logic design and artificial intelligence Updated throughout some major additions for the 3rd edition include a new chapter about the concepts contributing to the power of XBOOLE a new chapter that introduces into the application of the XBOOLE Monitor XBM 2 many tasks that support the readers in amplifying the learned content at the end of the chapters solutions of a large subset of these tasks to confirm learning success challenging tasks that need the power of the XBOOLE software for their solution The XBOOLE monitor XBM 2 software is used to solve the exercises in this way the time consuming and error prone manipulation on the bit level is moved to an ordinary PC more realistic tasks can be solved and the challenges of thinking about algorithms leads to a higher level of education

Logic Functions and Equations Christian Posthoff, Bernd Steinbach, 2018-12-31 The expanded and updated 2nd edition of this classic text offers the reader a comprehensive introduction to the concepts of logic functions and equations and their applications across computer science The approach emphasizes a thorough understanding of the fundamental principles as well as numerical and computer based solution methods Updated throughout some major additions for the 2nd edition include an expanded introductory section on logic equations a new chapter on sets lattices and classes of logic functions a new chapter about SAT problems a new chapter about methods to solve extremely complex problems and an expanded section with new decomposition methods utilizing the Boolean Differential Calculus extended to lattices of logic functions The book provides insight into applications across binary arithmetic coding complexity logic design programming computer architecture and artificial intelligence Based on the extensive teaching experience of the authors *Logic Functions and Equations* is highly recommended for a one or two semester course in computer science and related programs It provides straightforward high level access to these methods and enables sophisticated applications elegantly bridging the gap between mathematics and the theoretical foundations of computer science

*Advanced BDD Optimization* Rudiger Ebendt, Görschwin Fey, Rolf Drechsler, 2005-12-05 VLSI CAD has greatly benefited from the use of reduced ordered Binary Decision Diagrams BDDs and the clausal representation as a problem of Boolean satisfiability SAT e g in logic synthesis verification or design for testability In recent practical applications BDDs are optimized with respect to new objective functions for design space exploration The latest trends show a growing number of proposals to fuse the concepts of BDD and SAT This book gives a modern presentation of the established as well as of recent concepts Latest results in BDD optimization are given covering different aspects of paths in BDDs and the use of efficient lower bounds during optimization The presented algorithms include Branch and Bound and the generic A algorithm as efficient techniques to explore large search spaces The A

algorithm originates from Artificial Intelligence AI and the EDA community has been unaware of this concept for a long time Recently the A algorithm has been introduced as a new paradigm to explore design spaces in VLSI CAD Besides AI search techniques the book also discusses the relation to another field of activity bordered to VLSI CAD and BDD optimization the clausal representation as a SAT problem

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**Emerging Technology and Architecture for Big-data Analytics** Anupam Chattopadhyay, Chip Hong Chang, Hao Yu, 2017-04-19 This book describes the current state of the art in big data analytics from a technology and hardware architecture perspective The presentation is designed to be accessible to a broad audience with general knowledge of hardware design and some interest in big data analytics Coverage includes emerging technology and devices for data analytics circuit design for data analytics and architecture and algorithms to support data analytics Readers will benefit from the realistic context used by the authors which demonstrates what works what doesn't work and what are the fundamental problems solutions upcoming challenges and opportunities Provides a single source reference to hardware architectures for big data analytics Covers various levels of big data analytics hardware design abstraction and flow from device to circuits and systems Demonstrates how non volatile memory NVM based hardware platforms can be a viable solution to existing challenges in hardware architecture for big data analytics

**Recent Advances in Industrial and Systems Engineering** S. G. Ponnambalam, Purushothaman Damodaran, Nachiappan Subramanian, J. Paulo Davim, 2024-08-26 This book presents select proceedings of the International Conference on Recent Advances in Industrial and Systems Engineering RAISE 2023 It covers the latest research in the areas of industrial and systems engineering including manufacturing supply chain digitalization resilience and sustainability Various topics covered in this book are additive manufacturing artificial intelligence modeling and simulation production planning and management digital manufacturing and many more This book is useful for researchers and professionals working in the areas of industrial and production engineering supply chain management quality control and allied fields

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