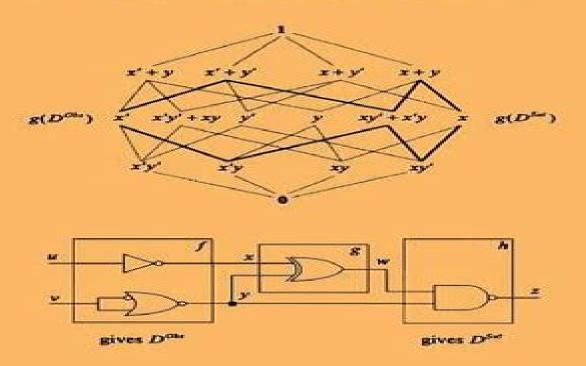
LOGIC SYNTHESIS AND VERIFICATION ALGORITHMS



Gary D. Hachtel Fabio Somenzi

Logic Synthesis And Verification Algorithms

Alan J.A. Robinson, Andrei Voronkov

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register with a state counter They also put forward an approach allowing linear chains of states to be created which simplifies the system of input memory functions and therefore decreases the number of LUTs in the resulting FSM circuit The authors combine this approach with using EMBs to implement the system of output functions microoperations This allows a significant decrease in the number of LUTs as well as eliminating a lot of interconnections in the FSM logic circuit As a rule it also reduces the area occupied by the circuit and diminishes the resulting power dissipation This book is an interesting and valuable resource for students and postgraduates in the area of computer science as well as for designers of digital systems that included complex control units Algorithms and Data Structures for Logic Synthesis and Verification Using Boolean Satisfiability John D. Backes, 2013 Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology Luciano Lavagno, Igor L. Markov, Grant Martin, Louis K. Scheffer, 2017-02-03 The second of two volumes in the Electronic Design Automation for Integrated Circuits Handbook Second Edition Electronic Design Automation for IC Implementation Circuit Design and Process Technology thoroughly examines real time logic RTL to GDSII a file format used to transfer data of semiconductor physical layout design flow analog mixed signal design physical verification and technology computer aided design TCAD Chapters contributed by leading experts authoritatively discuss design for manufacturability DFM at the nanoscale power supply network design and analysis design modeling and much more New to This Edition Major updates appearing in the initial phases of the design flow where the level of abstraction keeps rising to support more functionality with lower non recurring engineering NRE costs Significant revisions reflected in the final phases of the design flow where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting edge applications and approaches realized in the decade since publication of the previous edition these are illustrated by new chapters on 3D circuit integration and clock design Offering improved depth and modernity Electronic Design Automation for IC Implementation Circuit Design and Process Technology provides a valuable state of the art reference for electronic design automation EDA students researchers and Boolean Models and Methods in Mathematics, Computer Science, and Engineering Yves Crama, Peter L. professionals 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 EDA for IC Implementation, Circuit Design, and Process Technology Luciano Lavagno, Louis Scheffer, Grant Martin, 2018-10-03 Presenting a comprehensive overview of the design automation algorithms tools and methodologies used to design integrated circuits the Electronic Design Automation for Integrated Circuits Handbook is available in two volumes The second volume EDA for IC Implementation Circuit Design and Process Technology thoroughly examines real time logic to GDSII a file format used to transfer data of semiconductor physical layout analog mixed signal design physical verification and technology CAD TCAD Chapters contributed by leading experts authoritatively discuss design for manufacturability at the nanoscale power supply network design and analysis design modeling and much

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