

Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

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André Thayse

Boolean Calculus of
Differences



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George Boole



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A Treatise on the Calculus of Finite Differences George

Boole,1926

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father of Boolean algebra George Boole 1815 1864 published A Treatise on the Calculus of Finite Differences in 1860 as a sequel to his Treatise on Differential Equations 1859 Both books became instant classics that were used as textbooks for many years and eventually became the basis for our contemporary digital computer systems The book discusses direct theories of finite differences and integration linear equations variations of a constant and equations of partial and mixed differences Boole also includes exercises for daring students to ponder and also supplies answers Long a proponent of positioning logic firmly in the camp of mathematics rather than philosophy Boole was instrumental in developing a notational system that allowed logical statements to be symbolically represented by algebraic equations One of history s most insightful mathematicians Boole is compelling reading for today s student of logic and Boolean thinking **A Treatise on the**

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Posthoff,2022-05-31 The Boolean Differential Calculus BDC is a very powerful theory that extends the basic concepts of Boolean Algebras significantly Its applications are based on Boolean spaces and n Boolean operations and basic structures such as Boolean Algebras and Boolean Rings Boolean functions Boolean equations Boolean inequalities incompletely specified Boolean functions and Boolean lattices of Boolean functions These basics sometimes also called switching theory are widely used in many modern information processing applications The BDC extends the known concepts and allows the consideration of changes of function values Such changes can be explored for pairs of function values as well as for whole subspaces The BDC defines a small number of derivative and differential operations Many existing theorems are very welcome and allow new insights due to possible transformations of problems The available operations of the BDC have been efficiently implemented in several software packages The common use of the basic concepts and the BDC opens a very wide

field of applications The roots of the BDC go back to the practical problem of testing digital circuits The BDC deals with changes of signals which are very important in applications of the analysis and the synthesis of digital circuits The comprehensive evaluation and utilization of properties of Boolean functions allow for instance to decompose Boolean functions very efficiently this can be applied not only in circuit design but also in data mining Other examples for the use of the BDC are the detection of hazards or cryptography The knowledge of the BDC gives the scientists and engineers an extended insight into Boolean problems leading to new applications e.g. the use of Boolean lattices of Boolean functions

Decision Diagram Techniques for Micro- and Nanoelectronic Design Handbook Svetlana N. Yanushkevich, D. Michael Miller, Vlad P. Shmerko, Radomir S. Stankovic, 2018-10-03 Decision diagram DD techniques are very popular in the electronic design automation EDA of integrated circuits and for good reason They can accurately simulate logic design can show where to make reductions in complexity and can be easily modified to model different scenarios Presenting DD techniques from an applied perspective *Decision Diagram Techniques for Micro and Nanoelectronic Design Handbook* provides a comprehensive up to date collection of DD techniques Experts with more than forty years of combined experience in both industrial and academic settings demonstrate how to apply the techniques to full advantage with more than 400 examples and illustrations Beginning with the fundamental theory data structures and logic underlying DD techniques they explore a breadth of topics from arithmetic and word level representations to spectral techniques and event driven analysis The book also includes abundant references to more detailed information and additional applications *Decision Diagram Techniques for Micro and Nanoelectronic Design Handbook* collects the theory methods and practical knowledge necessary to design more advanced circuits and places it at your fingertips in a single concise reference

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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

Problems of Control and Information Theory, 1982 [Proceedings of the ... Midwest Symposium on Circuits and Systems](#), 1998 [Compositionality: The Significant Difference](#) Willem-Paul de Roever, Hans Langmaack, Amir Pnueli, 1998-12-18 This book originates from the International Symposium on Compositionality COMPOS 97 held in Bad Malente Germany in September 1997 The 25 chapters presented in revised full version reflect the current state of the art in the area of compositional reasoning about concurrency The book is a valuable reference for researchers and professionals interested in formal systems design and analysis it also is well suited for self study and use in advanced courses

Discrete and Switching Functions Marc Davio, Jean-Pierre Deschamps, André Thayse, 1978 **Computer Science and Multiple-Valued Logic** David C. Rine, 2014-05-12 Computer Science and Multiple Valued Logic Theory and Applications focuses on the processes methodologies and approaches involved in multiple valued logic and its relationship to computer science The selection first tackles an introduction to multiple valued logic lattice theory of post algebras multiple valued logic design and applications in binary computers smallest many valued logic for the treatment of complemented and uncomplemented error signals and chain based lattices Discussions focus on formulation representation theory theory and circuit design logical tables and unary operations The text then examines multiple valued signal processing with limiting development of multiple valued logic as related to computer science p algebras and an algorithm for axiomatizing every finite logic The book takes a look at completeness properties of multiple valued logic algebras computer simplification of multi valued switching functions and minimization of multivalued functions Topics include generation of prime implicants realizations minimization algorithms decomposition algorithm for multi valued switching functions and relation between the sum of products form and array of cubes The selection is aimed at computer engineers computer scientists applied mathematicians and physicists interested in multiple valued logic as the discipline relates to computer engineering and computer science

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Posthoff,2022-05-31 The Boolean Differential Calculus BDC is a very powerful theory that extends the structure of a Boolean Algebra significantly Based on a small number of definitions many theorems have been proven The available operations have been efficiently implemented in several software packages There is a very wide field of applications While a Boolean Algebra is focused on values of logic functions the BDC allows the evaluation of changes of function values Such changes can be explored for pairs of function values as well as for whole subspaces Due to the same basic data structures the BDC can be applied to any task described by logic functions and equations together with the Boolean Algebra The BDC can be widely used for the analysis synthesis and testing of digital circuits Generally speaking a Boolean differential equation BDE is an equation in which elements of the BDC appear It includes variables functions and derivative operations of these functions The solution of such a BDE is a set of Boolean functions This is a significant extension of Boolean equations which have sets of Boolean vectors as solutions In the simplest BDE a derivative operation of the BDC on the left hand side is equal to a logic function on the right hand side The solution of such a simple BDE means to execute an operation which is inverse to the given derivative BDEs can be applied in the same fields as the BDC however their possibility to express sets of Boolean functions extends the application field significantly

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