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# Cryptographic Boolean Functions and Applications



# Cryptographic Boolean Functions And Applications

**Khoongming Khoo**



## **Cryptographic Boolean Functions And Applications:**

*Cryptographic Boolean Functions and Applications* Thomas W. Cusick, Pantelimon Stanica, 2017-03-31 *Cryptographic Boolean Functions and Applications* Second Edition is designed to be a comprehensive reference for the use of Boolean functions in modern cryptography. While the vast majority of research on cryptographic Boolean functions has been achieved since the 1970s when cryptography began to be widely used in everyday transactions, in particular banking, relevant material is scattered over hundreds of journal articles, conference proceedings, books, reports, and notes, some of them only available online. This book follows the previous edition in sifting through this compendium and gathering the most significant information in one concise reference book. The work therefore encompasses over 600 citations covering every aspect of the applications of cryptographic Boolean functions. Since 2008 the subject has seen a very large number of new results, and in response the authors have prepared a new chapter on special functions. The new edition brings 100 completely new references and an expansion of 50 new pages along with heavy revision throughout the text. Presents a foundational approach beginning with the basics of the necessary theory then progressing to more complex content. Includes major concepts that are presented with complete proofs with an emphasis on how they can be applied. Includes an extensive list of references including 100 new to this edition that were chosen to highlight relevant topics. Contains a section on special functions and all new numerical examples.

**Boolean Functions and Their Applications in Cryptography** Chuan-Kun Wu, Dengguo Feng, 2016-02-23 This book focuses on the different representations and cryptographic properties of Boolean functions. It presents constructions of Boolean functions with some good cryptographic properties. More specifically, Walsh spectrum, description of the traditional cryptographic properties of Boolean functions including linear structure, propagation criterion, nonlinearity, and correlation immunity are presented. Constructions of symmetric Boolean functions and of Boolean permutations with good cryptographic properties are specifically studied. This book is not meant to be comprehensive but with its own focus on some original research of the authors in the past. To be self-contained, some basic concepts and properties are introduced. This book can serve as a reference for cryptographic algorithm designers, particularly the designers of stream ciphers and of block ciphers, and for academics with interest in the cryptographic properties of Boolean functions.

*Cryptographic Boolean Functions and Applications* Thomas W. Cusick, Pantelimon Stanica, 2009-03-04 Boolean functions are the building blocks of symmetric cryptographic systems. Symmetrical cryptographic algorithms are fundamental tools in the design of all types of digital security systems, i.e., communications, financial, and e-commerce. *Cryptographic Boolean Functions and Applications* is a concise reference that shows how Boolean functions are used in cryptography. Currently, practitioners who need to apply Boolean functions in the design of cryptographic algorithms and protocols need to patch together needed information from a variety of resources: books, journal articles, and other sources. This book compiles the key essential information in one easy-to-use step-by-step reference. Beginning with the basics of the necessary theory, the book

goes on to examine more technical topics some of which are at the frontier of current research Serves as a complete resource for the successful design or implementation of cryptographic algorithms or protocols using Boolean functions Provides engineers and scientists with a needed reference for the use of Boolean functions in cryptography Addresses the issues of cryptographic Boolean functions theory and applications in one concentrated resource Organized logically to help the reader easily understand the topic

**BFCA '05** Jean-Francis Michon,Pierre Valarcher,Jean-Baptiste Yunès,2005 Les recherches en cryptographie se sont développées en France ces dernières années du fait de la nécessité de développer la sécurité de tous les changes informatiques Toutes les industries ainsi que les administrations sont concernées par ce développement la sécurité des changes informatiques ainsi que l'administration sont des exemples dans lesquels peut intervenir la cryptographie Et les fonctions booléennes en particulier jouent un rôle central dans le design de la plupart des cryptosystèmes symétriques et leur sécurité L'ouvrage en anglais fruit d'un colloque international tenu à Roanne fait le point sur ces différents systèmes

*Boolean Functions for Cryptography and Coding Theory* Claude Carlet,2021-01-07 Boolean functions are essential to systems for secure and reliable communication This comprehensive survey of Boolean functions for cryptography and coding covers the whole domain and all important results building on the author's influential articles with additional topics and recent results A useful resource for researchers and graduate students the book balances detailed discussions of properties and parameters with examples of various types of cryptographic attacks that motivate the consideration of these parameters It provides all the necessary background on mathematics cryptography and coding and an overview on recent applications such as side channel attacks on smart cards cloud computing through fully homomorphic encryption and local pseudo random generators The result is a complete and accessible text on the state of the art in single and multiple output Boolean functions that illustrates the interaction between mathematics computer science and telecommunications

**Analysis and Design of Boolean Functions for Cryptographic Applications** William L. Millan,1997

Bent Functions Natalia Tokareva,2015-08-24 Bent Functions Results and Applications to Cryptography offers a unique survey of the objects of discrete mathematics known as Boolean bent functions As these maximal nonlinear Boolean functions and their generalizations have many theoretical and practical applications in combinatorics coding theory and cryptography the text provides a detailed survey of their main results presenting a systematic overview of their generalizations and applications and considering open problems in classification and systematization of bent functions The text is appropriate for novices and advanced researchers discussing proofs of several results including the automorphism group of bent functions the lower bound for the number of bent functions and more Provides a detailed survey of bent functions and their main results presenting a systematic overview of their generalizations and applications Presents a systematic and detailed survey of hundreds of results in the area of highly nonlinear Boolean functions in cryptography Appropriate coverage for students from advanced specialists in cryptography mathematics and creators of ciphers

**Progress in Applications of Boolean**

**Functions** Tsutomu Sasao, Jon T. Butler, 2010 This book brings together five topics on the application of Boolean functions. They are: 1. Equivalence classes of Boolean functions. The number of  $n$  variable functions is large even for values as small as  $n = 6$  and there has been much research on classifying functions. There are many classifications each with their own distinct merit. 2. Boolean functions for cryptography. The process of encrypting/decrypting plain text messages often depends on Boolean functions with specific properties. For example, highly nonlinear functions are valued because they are less susceptible to linear attacks. 3. Boolean differential calculus. An operation analogous to taking the derivative of a real valued function offers important insight into the properties of Boolean functions. One can determine tests or susceptibility to hazards. 4. Reversible logic. Most logic functions are irreversible; it is impossible to reconstruct the input given the output. However, Boolean functions that are reversible are necessary for quantum computing and hold significant promise for low power computing. 5. Data mining. The process of extracting subtle patterns from enormous amounts of data has benefited from the use of a graph based representation of Boolean functions. This has use in surveillance, fraud detection, scientific discovery including bioinformatics, genetics, medicine, and education. Written by experts, these chapters present a tutorial view of new and emerging technologies in Boolean functions. Table of Contents: Equivalence Classes of Boolean Functions, Boolean Functions for Cryptography, Boolean Differential Calculus, Synthesis of Boolean Functions in Reversible Logic, Data Mining Using Binary Decision Diagrams.

**Theory and Practice of Natural Computing** Adrian-Horia Dediu, Luis Magdalena, Carlos Martín-Vide, 2015-12-03 This book constitutes the refereed proceedings of the 4th International Conference on Theory and Practice of Natural Computing (TPNC 2015) held in Mieres, Spain, in December 2015. The 12 revised full papers presented together with 20 invited talks in this book were carefully reviewed and selected from 30 submissions. The scope of TPNC is rather broad, containing topics of either theoretical, experimental, or applied interest such as soft computing, computing architectures, and formal models.

**Handbook of Cybersecurity** Agbotiname Lucky Imoize, Oleksandr Kuznetsov, Roman Odarchenko, Sergiy Gnatyuk, 2026-04-02 This handbook offers a thorough examination of the ever-changing landscape of cybersecurity, exploring the critical challenges and innovative solutions that shape the field during the era of digital transformation. It features a compilation of in-depth chapters written by top experts in cybersecurity, providing a detailed evaluation of both the theoretical and practical aspects of securing advanced systems and applications. Handbook of Cybersecurity: Challenges and Solutions for Emerging Technologies provides researchers and academics with fresh insight into the practical applications, management, and benefits of advanced cybersecurity systems. The handbook explores the necessity of developing efficient computational and simulation models to tackle various cybersecurity challenges. It also critically examines the shortcomings of current cybersecurity systems and proposes innovative solutions to modernize traditional architectures to effectively address existing cybersecurity issues in real-world scenarios. Written in clear and accessible language, this handbook features numerous illustrations and tables to enhance readability and comprehension for

researchers industry professionals graduates postgraduate students and academicians

**Sequence Design and Construction of Cryptographic Boolean Functions [microform]** Khoongming Khoo, 2003

**Sequences and Their Applications - SETA 2006** Guang Gong, Tor Hellesest, Hong-Yeop Song, Kyeongcheol Yang, 2006-09-21 This book constitutes the refereed proceedings of the 4th International Conference on Sequences and Their Applications SETA 2006 The book presents 32 revised full papers together with 4 invited lectures The papers are organized in topical sections on linear complexity of sequences correlation of sequences stream ciphers and transforms topics in complexities of sequences multi sequence synthesis sequences and combinatorics FCSR sequences aperiodic correlation and applications and boolean functions and more

*Advances in Cryptology - CRYPTO 2002* Moti Yung, 2002-08-05 This book constitutes the refereed proceedings of the 22nd International Cryptology Conference CRYPTO 2002 held in Santa Barbara CA in August 2002 The 39 revised full papers presented were carefully reviewed and selected from a total of 175 submissions The papers are organized in topical sections on block ciphers multi user oriented cryptosystems foundations and methodology security and practical protocols secure multiparty computation public key encryption information theory and secret sharing cipher design and analysis elliptic curves and Abelian varieties authentication distributed cryptosystems pseudorandomness stream ciphers and Boolean functions commitment schemes and signature schemes

Boolean Functions in Coding Theory and Cryptography Oleg A. Logachev, Alekse\_ Aleksandrovich Sal\_nikov, V. V. I\_A\_shchenko, 2012-02-08 This book offers a systematic presentation of cryptographic and code theoretic aspects of the theory of Boolean functions Both classical and recent results are thoroughly presented Prerequisites for the book include basic knowledge of linear algebra group theory theory of finite fields combinatorics and probability The book can be used by research mathematicians and graduate students interested in discrete mathematics coding theory and cryptography

**Emerging Technologies in Data Mining and Information Security** Ajith Abraham, Paramartha Dutta, Jyotsna Kumar Mandal, Abhishek Bhattacharya, Soumi Dutta, 2018-09-01 The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2018 held at the University of Engineering Management Kolkata India on February 23 25 2018 It comprises high quality research by academics and industrial experts in the field of computing and communication including full length papers research in progress papers case studies related to all the areas of data mining machine learning IoT and information security

*Information Technology Applications in Industry II* Prasad Yarlagadda, Su Fen Yang, Keon Myung Lee, 2013-09-03 Selected peer reviewed papers from the 2013 2nd International Conference on Information Technology and Management Innovation ICITMI 2013 July 23 24 2013 Zhuhai China

**Bent Functions** Sihem Mesnager, 2016-08-09 This book gives a detailed survey of the main results on bent functions over finite fields presents a systematic overview of their generalizations variations and applications considers open problems in classification and systematization of bent functions and discusses proofs of several results This book uniquely provides a necessary comprehensive coverage of bent functions It

serves as a useful reference for researchers in discrete mathematics coding and cryptography Students and professors in mathematics and computer science will also find the content valuable especially those interested in mathematical foundations of cryptography It can be used as a supplementary text for university courses on discrete mathematics Boolean functions or cryptography and is appropriate for both basic classes for under graduate students and advanced courses for specialists in cryptography and mathematics

**Contributions to General Algebra** ,1999     *Contributions to General Algebra* 12 Dietmar Dorninger,2000     *Progress in Cryptology* ,2004

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