

Solomon W Golomb Shift Register Sequences

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shift register sequences cover a broad range of applications from radar signal design pseudo random number generation digital wireless telephony and many other areas in coded communications it is the primary area for which the author dr golomb received the us national

medal of science this book is the third revised edition of the original definitive book on shift register sequences which was published in 1967 which has been widely distributed read and cited it has stood the test of time and provides a clear comprehensive and readily applicable description of both linear and non linear shift register sequences

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algebra and number theory have always been counted among the most beautiful and fundamental mathematical areas with deep proofs and elegant results however for a long time they were not considered of any substantial importance for real life applications this has dramatically changed with the appearance of new topics such as modern cryptography coding theory and wireless communication nowadays we find applications of algebra and number theory frequently in our daily life we mention security and error detection for internet banking check digit systems and the bar code gps and radar systems pricing options at a stock market and noise suppression on mobile phones as most common examples this book collects the results of the workshops applications of algebraic curves and applications of finite fields of the ricam special semester 2013 these workshops brought together the most prominent researchers in the area of finite fields and their applications around the world they address old and new problems on curves and other aspects of finite fields with emphasis on their diverse applications to many areas of pure and applied mathematics

addresses cryptography from the perspective of security services and mechanisms available to implement them discusses issues such as e mail security public key architecture virtual private networks services security wireless security and confidentiality and integrity provides a working knowledge of fundamental encryption algorithms and systems supported in information technology and secure communication networks

a complete accessible book on single and multiple output boolean functions in cryptography and coding with recent applications and problems

this volume contains the proceedings of the 11th international conference on finite fields and their

applications fq11 held july 22 26 2013 in magdeburg germany finite fields are fundamental structures in mathematics they lead to interesting deep problems in number theory play a major role in combinatorics and finite geometry and have a vast amount of applications in computer science papers in this volume cover these aspects of finite fields as well as applications in coding theory and cryptography

this fascinating book presents the timeless mathematical theory underpinning cryptosystems both old and new written specifically with engineers in mind ideal for graduate students and researchers in engineering and computer science and practitioners involved in the design of security systems for communications networks

this book constitutes the thoroughly refereed post proceedings of the third international conference on sequences and their applications seta 2004 held in seoul korea in october 2004 the 30 revised full papers presented together with 4 invited survey articles were carefully selected during two rounds of reviewing and improvement from initially 59 submissions the papers are organized in topical sections on complexity of sequences perfect sequences sequence construction sequences modulo z sequence generator properties and applications multi dimensional sequences optics and ofdm applications and polynomials and functions

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