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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the shift register counter is a device comprised of a small number of digital flip flops interconnected to emit a long predetermined nonrepeating series of binary bits the theory of their design is examined concentrating on the synthesis of counters able to create extremely long sequences by sequentially modifying the effective connections or operators in the feedback loops non linear shift registers are examined from several different points of view and then the insight so afforded is applied to generalize upon the possible directions which might yield maximal length sequences with a minimum of equipment author

pseudo random sequences are essential ingredients of every modern digital communication system including cellular telephones gps secure internet transactions and satellite imagery each application requires pseudo random sequences with specific statistical properties this book describes the design mathematical analysis and implementation of pseudo random sequences particularly those generated by shift registers and related architectures such as feedback with carry shift registers the earlier chapters may be used as a textbook in an advanced undergraduate mathematics course or a graduate electrical engineering course the more advanced chapters provide a reference work for researchers in the field background material from algebra beginning with elementary group theory is provided in an appendix

now that cdma has been accepted as a key component of worldwide 3g systems service providers capacity planners engineers and technicians need to understand the best methods and tools for maximizing throughput capacity and quality this book provides that expertise

eurocrypt is a series of open workshops on the theory and application of cryptographic techniques these meetings have taken place in europe every year since 1982 and are sponsored by the international association for cryptologic research eurocrypt 93 was held in the village of lofthus in norway in may 1993 the call for papers resulted in 117 submissions with authors

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the paper examines the questions of the existence and the design of feedback shift register sequence generators fsr capable of producing sequences with periods longer than obtained by the classical linear or nonlinear feedback shift register techniques this capability is achieved by cyclically modifying the effective connections in the feedback loop a description of the behavior of the classical n stage fsr in terms of cyclic transformations on its state space x sub n is formulated and used to analyze the behavior of the proposed generalized n stage feedback shift register the m n fsr the latter is shown to be capable of producing sequences of maximal period m 2 raised to the n power for any m and n by cyclic application of properly chosen transformations author

vols for 1993 consists of proceedings of the cambridge security workshop 1994 proceedings of the 2nd international workshop held in leuven belgium 1996 proceedings of the 3rd international workshop

a comprehensive examination of digital communication systems and signal processing techniques

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