Solomon W Golomb Shift Register Sequences

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Shift Register Sequences: Secure And Limited-access Code Generators, Efficiency Code Generators, Prescribed Property Generators, Mathematical Models (Third Revised Edition) Shift Register Sequences Shift Register Sequences Wisdom Of Solomon, The: The Genius And Legacy Of Solomon Golomb Probabilistic Methods in Discrete Mathematics Handbook of Coding Theory Algebraic Curves and Finite Fields IEEE International Symposium on Information Theory Advances in Cryptology Proceedings of the Twentieth Midwest Symposium on Circuits and Systems Midwest Symposium on Circuits and Systems Canadian Communications & Power Conference, October 20,21,22, 1976, Montréal Multiple Access Communications Advances in Cryptology Archives of Control Sciences Computerized Electronics Demonstratio mathematica Proceedings Second Biennial Cornell Electrical Engineering Conference Proceedings RAOP *Solomon W Golomb Solomon*

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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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solomon wolf golomb left an unparalleled legacy of accomplishment and recognition for his work in the applications of mathematics to coding and communication theory his legacy also includes a host of individuals whose lives and careers were immeasurably enriched by their interactions with him the co editors have attempted to collect many articles essays in this volume of a not too technical sort by a representative collection of such individuals among their motivations is the wish to convince the reader of the incredibly prescient choice of his given name the first section consists of three articles which have already appeared elsewhere by noted experts in the fields where the majority of sol s contributions lie mathematics computer science and electrical engineering the second section consists of three articles by the co editors in memory of and

tribute to sol the third section contains 25 30 articles by sol s family friends students colleagues etc they cover a great range of topics and vary widely in length technicality and other aspects in the last section are contributions by sol himself covering various aspects of his career and interests as well as other related material

the second volume of this work contains parts 2 and 3 of the handbook of coding theory part 2 connections is devoted to connections between coding theory and other branches of mathematics and computer science part 3 applications deals with a variety of applications for coding

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

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