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This book constitutes the refereed proceedings of the 4th International Conference on Sequences and Their Applications, SETA 2006, held in Beijing in September 2006. The 32 revised full papers presented together with 4 invited lectures were carefully reviewed and selected from 70 submissions. The papers are organized in topical sections on linear complexity of sequences, correlation of sequences, stream ciphers and transforms, topics in complexities of sequences, linear/nonlinear feedback shift register sequences, multi-sequence synthesis, filtering sequences and pseudorandom sequence generators, sequences and combinatorics, FCSR sequences, aperiodic correlation and applications, and boolean functions.

Invited Papers Shift Register Sequences-A Retrospective Account The Probabilistic Theory of the Joint Linear Complexity of Multisequences Multi-Continued Fraction Algorithms and Their Applications to Sequences Codes for Optical CDMALinear Complexity of Sequences On the Linear Complexity of Sidel'nikov Sequences over Fd Linear Complexity over Fd of Ternary Sidel'nikov Sequences Bounds on the Linear Complexity and the 1-Error Linear Complexity over Fp of M-ary Sidel'nikov Sequences The Characterization of 2n-Periodic Binary Sequences with Fixed 1-Error Linear ComplexityCorrelation of Sequences Crosscorrelation Properties of Binary Sequences with Ideal Two-Level Autocorrelation Extended Hadamard Equivalencd Analysis of Designing Interleaved ZCZ Sequence FamiliesStream Ciphers and Transforms Security of Jump Controlled Sequence Generators for Stream Ciphers Improved Rijndael-Liks S-Box and Its Transform Domain AnalysisTopics in Complexities of Sequences Nonlinear Complexity of Binary Sequences and Connections with Lempel-Ziv Compression On Lempel-Ziv Complexity of Sequences Computing the k-Error N-Adic Complexity of a Sequence of Period pn On the Expected Value of the Joint 2-Adic Complexity of Periodic Binary MutisequencesLinear/Nonlinear Feedback Shift Register Sequences On the Classification of Periodic Binary Sequences into Nonlinear Complexity Classes Sequences of Period 2N-2 A New Algorithm to Compute Remote Terms in Special Types of Characteristic SequencesMulti-sequence SynthesisFiltering Sequences and Pseudorandom Sequence GeneratorsSequences and CombinatoricsAperiodic Correlation and ApplicatonsBoolean FunctionsAuthor Index

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