1. Record Nr. UNISA996466097103316

Titolo	Sequences and Their Applications – SETA 2006 [[electronic resource]] : 4th International Conference, Beijing, China, September 24-28, 2006, Proceedings / / edited by Guang Gong, Tor Helleseth, Hong-Yeop Song, Kyeongcheol Yang
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ISBN	3-540-44524-2
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (XII, 436 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4086
Disciplina	515/.24
Soggetti	Coding theory Information theory Cryptography Data encryption (Computer science) Computer science Algorithms Numerical analysis Computer science—Mathematics Coding and Information Theory Cryptology Theory of Computation Numerical Analysis Symbolic and Algebraic Manipulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	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 CDMA -- Linear Complexity of Sequences -- On the Linear Complexity of Sidel’nikov Sequences over -- Linear Complexity over F p of Ternary Sidel’nikov Sequences -- Bounds on the Linear Complexity and the 1-Error Linear

Complexity over F p of M-ary Sidel'nikov Sequences -- The Characterization of 2 n -Periodic Binary Sequences with Fixed 1-Error Linear Complexity -- Correlation of Sequences -- Crosscorrelation Properties of Binary Sequences with Ideal Two-Level Autocorrelation -- Extended Hadamard Equivalence -- Analysis of Designing Interleaved ZCZ Sequence Families -- Stream Ciphers and Transforms -- Security of Jump Controlled Sequence Generators for Stream Ciphers -- Improved Rijndael-Like S-Box and Its Transform Domain Analysis -- Topics 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 p n -- On the Expected Value of the Joint 2-Adic Complexity of Periodic Binary Multisequences -- Linear/Nonlinear Feedback Shift Register Sequences -- On the Classification of Periodic Binary Sequences into Nonlinear Complexity Classes -- Sequences of Period 2 N –2 -- A New Algorithm to Compute Remote Terms in Special Types of Characteristic Sequences -- Multi-sequence Synthesis -- Implementation of Multi-continued Fraction Algorithm and Application to Multi-sequence Linear Synthesis -- The Hausdorff Dimension of the Set of r-Perfect M-Multisequences -- Filtering Sequences and Pseudorandom Sequence Generators -- Lower Bounds on Sequence Complexity Via Generalised Vandermonde Determinants -- Construction of Pseudo-random Binary Sequences from Elliptic Curves by Using Discrete Logarithm -- On the Discrepancy and Linear Complexity of Some Counter-Dependent Recurrence Sequences -- Sequences and Combinatorics -- Nonexistence of a Kind of Generalized Perfect Binary Array -- FCSR Sequences -- On the Distinctness of Decimations of Generalized l-Sequences -- On FCSR Memory Sequences -- Periodicity and Distribution Properties of Combined FCSR Sequences -- Aperiodic Correlation and Applications -- Generalized Bounds on Partial Aperiodic Correlation of Complex Roots of Unity Sequences -- Chip-Asynchronous Version of Welch Bound: Gaussian Pulse Improves BER Performance -- Boolean Functions -- On Immunity Profile of Boolean Functions -- Reducing the Number of Homogeneous Linear Equations in Finding Annihilators -- The Algebraic Normal Form, Linear Complexity and k-Error Linear Complexity of Single-Cycle T-Function -- Partially Perfect Nonlinear Functions and a Construction of Cryptographic Boolean Functions -- Construction of 1-Resilient Boolean Functions with Very Good Nonlinearity.

2. Record Nr. UNINA9911020333503321

Autore	Grebennikov Andrei <1956->
Titolo	RF and microwave transmitter design / / Andrei Grebennikov
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Descrizione fisica	1 online resource (838 p.)
Collana	Wiley series in microwave and optical engineering
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Disciplina	621.384/131
Soggetti	Radio - Transmitters and transmission Microwave circuits Microwave transmission lines
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	RF AND MICROWAVETRANSMITTER DESIGN; Contents; Preface; Introduction; References; 1 Passive Elements and Circuit Theory; 1.1 Immittance Two-Port Network Parameters; 1.2 Scattering Parameters; 1.3 Interconnections of Two-Port Networks; 1.4 Practical Two-Port Networks; 1.4.1 Single-Element Networks; 1.4.2 - and T -Type Networks; 1.5 Three-Port Network with Common Terminal; 1.6 Lumped Elements; 1.6.1 Inductors; 1.6.2 Capacitors; 1.7 Transmission Line; 1.8 Types of Transmission Lines; 1.8.1 Coaxial Line; 1.8.2 Stripline; 1.8.3 Microstrip Line; 1.8.4 Slotline; 1.8.5 Coplanar Waveguide; 1.9 Noise 1.9.1 Noise Sources1.9.2 Noise Figure; 1.9.3 Flicker Noise; References; 2 Active Devices and Modeling; 2.1 Diodes; 2.1.1 Operation Principle; 2.1.2 Schottky Diodes; 2.1.3 p-i-n Diodes; 2.1.4 Zener Diodes; 2.2 Varactors; 2.2.1 Varactor Modeling; 2.2.2 MOS Varactor; 2.3 MOSFETs; 2.3.1 Small-Signal Equivalent Circuit; 2.3.2 Nonlinear I-V Models; 2.3.3 Nonlinear C-V Models; 2.3.4 Charge Conservation; 2.3.5 Gate-Source

Resistance; 2.3.6 Temperature Dependence; 2.3.7 Noise Model; 2.4 MESFETs and HEMTs; 2.4.1 Small-Signal Equivalent Circuit; 2.4.2 Determination of Equivalent Circuit Elements
2.4.3 Curtice Quadratic Nonlinear Model2.4.4 Parker-Skellern Nonlinear Model; 2.4.5 Chalmers (Angelov) Nonlinear Model; 2.4.6 IAF (Berroth) Nonlinear Model; 2.4.7 Noise Model; 2.5 BJTs and HBTs; 2.5.1 Small-Signal Equivalent Circuit; 2.5.2 Determination of Equivalent Circuit Elements; 2.5.3 Equivalence of Intrinsic - and T -Type Topologies; 2.5.4 Nonlinear Bipolar Device Modeling; 2.5.5 Noise Model; References; 3 Impedance Matching; 3.1 Main Principles; 3.2 Smith Chart; 3.3 Matching with Lumped Elements; 3.3.1 Analytic Design Technique; 3.3.2 Bipolar UHF Power Amplifier
3.3.3 MOSFET VHF High-Power Amplifier3.4 Matching with Transmission Lines; 3.4.1 Analytic Design Technique; 3.4.2 Equivalence Between Circuits with Lumped and Distributed Parameters; 3.4.3 Narrowband Microwave Power Amplifier; 3.4.4 Broadband UHF High-Power Amplifier; 3.5 Matching Networks with Mixed Lumped and Distributed Elements; References; 4 Power Transformers, Combiners, and Couplers; 4.1 Basic Properties; 4.1.1 Three-Port Networks; 4.1.2 Four-Port Networks; 4.2 Transmission-Line Transformers and Combiners; 4.3 Baluns; 4.4 Wilkinson Power Dividers/Combiners; 4.5 Microwave Hybrids
4.6 Coupled-Line Directional CouplersReferences; 5 Filters; 5.1 Types of Filters; 5.2 Filter Design Using Image Parameter Method; 5.2.1 Constant-k Filter Sections; 5.2.2 m-Derived Filter Sections; 5.3 Filter Design Using Insertion Loss Method; 5.3.1 Maximally Flat Low-Pass Filter; 5.3.2 Equal-Ripple Low-Pass Filter; 5.3.3 Elliptic Function Low-Pass Filter; 5.3.4 Maximally Flat Group-Delay Low-Pass Filter; 5.4 Bandpass and Bandstop Transformation; 5.5 Transmission-Line Low-Pass Filter Implementation; 5.5.1 Richards's Transformation; 5.5.2 Kuroda Identities; 5.5.3 Design Example
5.6 Coupled-Line Filters

Sommario/riassunto

RF and Microwave Transmitter Design is unique in its coverage of both historical transmitter design and cutting edge technologies. This text explores the results of well-known and new theoretical analyses, while informing readers of modern radio transmitters' pracitcal designs and their components. Jam-packed with information, this book broadcasts and streamlines the author's considerable experience in RF and microwave design and development.