

1. Record Nr.	UNINA9910141823503321
Autore	Zepernick Hans-Jurgen
Titolo	Pseudo random signal processing [[electronic resource]] : theory and application / / Hans-Jurgen Zepernick, Adolf Finger
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, N.J., : Wiley, c2005
ISBN	0-470-86659-4 0-470-86658-6
Descrizione fisica	1 online resource (438 p.)
Altri autori (Persone)	FingerAdolf
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Soggetti	Signal processing Random noise theory Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [391]-401) and index.
Nota di contenuto	Cover; Title Page; Contents; Preface; List of abbreviations; List of common symbols; 1 Introduction; 1.1 Prologue; 1.2 Elements of pseudo random signal processing; 1.3 Outline of the book; 2 Characterization of signals and sequences; 2.1 Classification of signals and sequences; 2.1.1 Morphological classification; 2.1.2 Phenomenological classification; 2.1.3 Energy classification; 2.1.4 Spectral classification; 2.2 Transformations of signals and sequences; 2.2.1 Basic transformations; 2.3 Correlation measures; 2.3.1 Autocorrelation and crosscorrelation functions 2.3.2 Discrete periodic correlation functions2.3.3 Aperiodic correlation functions; 2.3.4 Other properties and relationships; 2.3.5 Correlation of binary sequences; 2.3.6 Orthogonality; 2.4 Power spectral density; 2.4.1 Power spectral density of analog signals; 2.4.2 Power spectral density of periodic signals; 2.4.3 Power spectral density of periodic pulse trains; 2.5 Pseudo random signals and sequences; 2.5.1 Pseudo randomness criteria; 2.5.2 Pseudo randomness and power spectral density; 2.5.3 Pseudo randomness and ployphase sequences; 3 Mathematical foundations; 3.1 Algebraic structures 3.1.1 Binary algebra, semigroup, and monoid3.1.2 Groups, rings, and

fields; 3.2 Polynomials over finite fields; 3.2.1 Polynomials and polynomial rings; 3.2.2 Euclidean algorithm for polynomials; 3.2.3 Irreducible polynomials; 3.2.4 Cyclotomic cosets and minimal polynomials; 3.2.5 Primitive polynomials; 4 Binary pseudo random sequences; 4.1 Classification; 4.2 Maximal-length sequences; 4.2.1 Linear recurring sequences; 4.2.2 Maximal-length sequences; 4.2.3 Properties of maximal-length sequences; 4.2.4 Autocorrelation functions of maximal-length sequences
 4.3 Binary sequences with good autocorrelation
 4.3.1 Difference sets; 4.3.2 De Bruijn sequences; 4.3.3 Quadratic residue sequences; 4.3.4 Other difference set sequences; 4.3.5 Barker sequences and Willard sequences; 4.4 Binary sequences with special crosscorrelation; 4.4.1 Transorthogonal and orthogonal sequences; 4.4.2 Gold sequences; 4.4.3 Gold-like sequences; 4.4.4 Kasami sequences; 5 Nonbinary pseudo random sequences; 5.1 Classification; 5.2 Interference-free window sequences; 5.2.1 Large-area synchronous codes; 5.3 Complex-valued sequences; 5.3.1 Complex maximal-length sequences
 5.3.2 Polyphase sequences
 5.3.3 Quadrature phase sequences; 5.4 Polyphase sequences with special correlations; 5.4.1 Equivalent odd and even correlation sequences; 5.4.2 Oppermann sequences; 6 Generating pseudo random signals; 6.1 Linear autonomous automata; 6.1.1 Mathematical description; 6.1.2 Canonical forms; 6.1.3 State cycles; 6.2 Generating maximal-length sequences; 6.2.1 Standard circuits for binary maximal-length sequences; 6.2.2 Special cases of modulo 2 arithmetic; 6.2.3 High-speed sequence generation; 6.2.4 Nonbinary sequence generation with binary encoding
 6.3 Transformations of maximal-length sequences

Sommario/riassunto

In recent years, pseudo random signal processing has proven to be a critical enabler of modern communication, information, security and measurement systems. The signal's pseudo random, noise-like properties make it vitally important as a tool for protecting against interference, alleviating multipath propagation and allowing the potential of sharing bandwidth with other users. Taking a practical approach to the topic, this text provides a comprehensive and systematic guide to understanding and using pseudo random signals. Covering theoretical principles, design methodologies and applications

2.	Record Nr.	UNISALENTO991001857039707536
	Autore	Romagnoli, Ettore
	Titolo	Il canto 8. dell'Inferno / letto da Ettore Romagnoli nella sala di Dante in Orsanmichele
	Pubbl/distr/stampa	Firenze : Sansoni, stampa 1933
	Descrizione fisica	38 p. ; 24 cm
	Collana	Lectura Dantis
	Soggetti	Alighieri, Dante. Divina Commedia. Inferno. C. 8.
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
3.	Record Nr.	UNINA9910711557403321
	Autore	Pratt Walden P.
	Titolo	Mineral-resource appraisal of the Rolla 1 x 2 quadrangle, Missouri, as of September 1980 : a nontechnical summary / / by Walden P. Pratt ; prepared in cooperation with the Missouri Department of Natural Resources, Division of Geology and Land Survey
	Pubbl/distr/stampa	[Reston, Va.] : , : United States Department of the Interior, Geological Survey, , 1983
	Descrizione fisica	1 online resource (iii, 5 pages) : maps
	Collana	Geological Survey circular ; ; 869
	Soggetti	Mines and mineral resources - Missouri Mines and mineral resources Missouri
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical reference (page 5).

