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Nota di contenuto	Preface; Contents; On Growth Function of Petri Net and its Applications Pham Tra An; On an Infinite Hierarchy of Petri Net Languages Pham Tra A n and Pham Van Thao; Algorithms to Test Rational w-Codes Xavier Augros and Igor Litovsky; Distributed Random Walks for an Efficient Design of a Random Spanning Tree Hichem Baala and Marc Bui; Formal Concept Analysis and Rough Set Theory in Clustering Ho Tu Bao; A Simple Heuristic Method for the Min-Cut k-Balanced Partitioning Problem Lelia Blin and Ivan Lavallee; Longest Cycles and Restgraph in Maximal Non-Hamiltonian Graphs Vu Dinh Hoa Deterministic and Nondeterministic Directable Automata Masami ItoWorst-Case Redundancy of Solid Codes Helmut Jiirgensen and Stavros Konstantinidis; Maximal Independent Sets in Certain Subword Orders Nguyen Huong Lam; Strong Recognition of Rational w-Languages Bertrand Le Saec, V. R. Dare and R. Siromoney; Some Results Concerning Covers in the Class of Multivalued Positive Boolean Dependencies Le Duc Minh, Vu Ngoc Loan and Nguyen Xuan Huy; A New Measure for Attribute Selection Do Tan Phong, Ho Thuan and Ha

Quang Thuy

The Complexity of Problems Defined by Boolean Circuits Steffen Reith and Klaus W. Wagner
The Rational Skimming Theorem Jacques Sakarovitch; A New Classification of Finite Simple Groups Wujie Shi and Seymour Lipschutz; Connectedness of Tetravalent Metacirculant Graphs with Non-Empty First Symbol Ngo Dac Tan and Tran Minh Tuoc; On the Relation between Maximum Entropy Principle and the Condition Independence Assumption in the Probabilistic Logic Ha Dang Cao Tung

Sommario/riassunto

This volume presents research results ranging from those in pure mathematical theory (semigroup theory, graph theory, etc.) to those in theoretical and applied computer science, e.g. formal languages, automata, codes, parallel and distributed computing, formal systems, knowledge systems and database theory.

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Titolo

Multicarrier techniques for 4G mobile communications // Shinsuke Hara, Ramjee Prasad

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Nota di contenuto

1. Introduction -- 2. Characteristics of Multipath Fading Channels -- 3. Principle and History of MCM/OFDM -- 4. OFDM Characteristics -- 5. Pilot-Assisted DFT Window Timing/Frequency Offset Synchronization and Subcarrier Recovery -- 6. Blind Maximum Likelihood-Based Joint DFT Window Timing/Frequency Offset/DFT Window Width Estimation --

7. Coded OFDM Scheme to Gain Frequency Diversity Effect -- 8. Applications of OFDM -- 9. Combination of OFDM and CDMA -- 10. Future Research Directions.

Sommario/riassunto

Annotation "As research for future fourth generation (4G) mobile communication systems is underway worldwide in major companies and academic institutions, forward-thinking professionals are striving to gain a thorough understanding of the cutting-edge technologies and design techniques that will make these systems work. This book helps readers do just that by: providing a comprehensive introduction to multicarrier techniques for 4G mobile communications with a special focus on the analytical aspects; explaining radio channel characteristics and phenomena and discussing the advantages and disadvantages of the OFDM scheme; featuring new multicarrier-related techniques, MC-CDMA, research on several 4G systems, and a look at several problems to be overcome with these systems; examining the concept and detail of the OFDM scheme and how to carry out theoretical analysis on the performance of transmission systems in radio channels; showing how OFDM has been successfully adopted as a modulation scheme in communications systems and broadcasting systems such as ADSL, wireless LANs, and DVB-T."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved.
