

ITERATIVE DETECTION

Adaptivity, Complexity Reduction, and Applications



by
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Xiaopeng Chen



Kluwer Academic Publishers

Iterative Detection

Jie Lin

Iterative Detection:

Iterative Detection Keith Chugg,Achilleas Anastasopoulos,Xiaopeng Chen,2012-12-06 Iterative Detection Adaptivity Complexity Reduction and Applications is a primary resource for both researchers and teachers in the field of communication Unlike other books in the area it presents a general view of iterative detection that does not rely heavily on coding theory or graph theory The features of the text include Both theoretical background and numerous real world applications Over 70 detailed examples 100 problems 180 illustrations tables of notation and acronyms and an extensive bibliography and subject index A whole chapter devoted to a case study on turbo decoder design Receiver design guidelines rules and suggestions The most advanced view of iterative turbo detection based only on block diagrams and standard detection and estimation theory Development of adaptive iterative detection theory Application of adaptive iterative detection to phase and channel tracking in turbo coded systems and systems representative of digital mobile radio designs An entire chapter dedicated to complexity reduction Numerous recent research results Discussion of open problems at the end of each chapter Among the applications considered in this book are joint equalization and decoding turbo codes multiuser detection and decoding broadband wireless channel equalization and applications to two dimensional storage and imaging systems Audience Iterative Detection Adaptivity Complexity Reduction and Applications provides an accessible and detailed reference for researchers practicing engineers and students working in the field of detection and estimation It will be of particular interest to those who would like to learn how iterative detection can be applied to equalization interference mitigation and general signal processing tasks Researchers and practicing engineers interested in learning the turbo decoding algorithm should also have this book

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engineers and students working in the field of detection and estimation It will be of particular interest to those who would like to learn how iterative detection can be applied to equalization interference mitigation and general signal processing tasks Researchers and practicing engineers interested in learning the turbo decoding algorithm should also have this book

Iterative Detection Jie Lin,2004 *Coding and Iterative Detection for Magnetic Recording Channels* Zining Wu,2000-01-31 The advent of the internet age has produced enormous demand for increased storage capacity and for the consequent increases in the amount of information that can be stored in a small space While physical and media improvements have driven the majority of improvement in modern storage systems signal processing and coding methods have increasingly been used to augment those improvements Run length limited codes and partial response detection methods have come to be the norm in an industry that once rejected any sophistication in the read or write processing circuits VLSI advances now enable increasingly sophisticated signal processing methods for negligible cost and complexity a trend sure to continue even as disk access speeds progress to billions of bits per second and terabits per square inch in the new millennium of the information age This new book representing the Ph D dissertation work of Stanford's recent graduate Dr Zining Wu is an up to date and focused review of the area that should be of value to those just starting in this area and as well those with considerable expertise The use of saturation recording i.e. the mandated restriction of two level inputs creates interesting twists on the use of communication transmission methods in recording

Iterative Detection Processes M. S.

Raja,1981 Detection Algorithms for Wireless Communications Gianluigi Ferrari, Giulio Colavolpe, Riccardo Raheli,2004-10-08 Presenting a unified approach to detection for stochastic channels with particular attention to wireless channels this book illustrates how the three main criteria of sequence detection symbol detection and graph based detection can all be described within a general framework

IEEE Circuits & Devices ,2002 **Quasi-Maximum-likelihood**

Detection in Digital Communications Mikalai Kisialiou,2007 On Iterative Detection for Channels with Memory Gianluigi Ferrari, Università di Pavia,2001 Proceedings ,2006 Conference Record ,2001 Conference Proceedings

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,2008 Journal of Southeast University ,2007 Annales des télécommunications ,2006 **International ITG Conference Source and Channel Coding** ,2004 Recommended Promotions to the Ranks of Professor and Associate Professor University of Michigan. Office of the Provost and Vice President for Academic Affairs,2005 Technical Program ,Conference Record ,2002 Detection and Modeling of 2-dimensional Signals Marcus Marrow,2004

The book delves into Iterative Detection. Iterative Detection is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Iterative Detection, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Iterative Detection
- Chapter 2: Essential Elements of Iterative Detection
- Chapter 3: Iterative Detection in Everyday Life
- Chapter 4: Iterative Detection in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Iterative Detection. This chapter will explore what Iterative Detection is, why Iterative Detection is vital, and how to effectively learn about Iterative Detection.
3. In chapter 2, the author will delve into the foundational concepts of Iterative Detection. The second chapter will elucidate the essential principles that need to be understood to grasp Iterative Detection in its entirety.
4. In chapter 3, this book will examine the practical applications of Iterative Detection in daily life. The third chapter will showcase real-world examples of how Iterative Detection can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Iterative Detection in specific contexts. This chapter will explore how Iterative Detection is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Iterative Detection. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Iterative Detection.

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