

# ITERATIVE DETECTION

*Adaptivity, Complexity Reduction, and Applications*



by  
Keith Chugg  
Achilleas Anastasopoulos  
Xiaopeng Chen



Kluwer Academic Publishers

# Iterative Detection

**Ensheng Dong**



## **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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The book delves into Iterative Detection. Iterative Detection is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The 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, the author 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. This chapter will showcase real-world examples of how Iterative Detection can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Iterative Detection in specific contexts. The fourth chapter will explore how Iterative Detection is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Iterative Detection. This chapter will summarize the key points that have been discussed throughout the book.

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

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