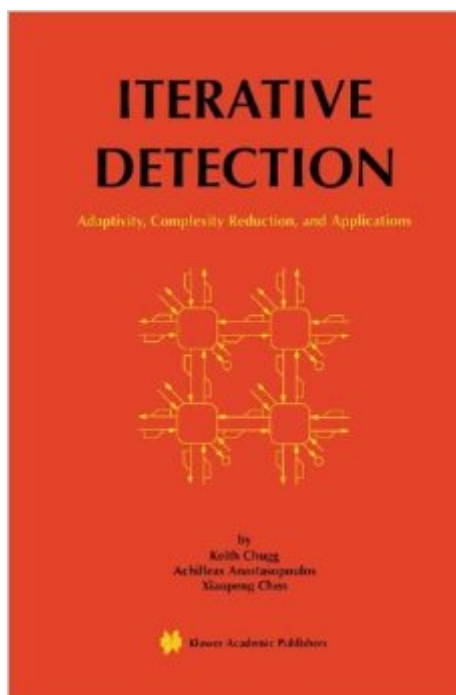


The book was found

# Iterative Detection: Adaptivity, Complexity Reduction, And Applications (The Springer International Series In Engineering And Computer Science)



## Synopsis

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.

## Book Information

Series: The Springer International Series in Engineering and Computer Science (Book 602)

Hardcover: 359 pages

Publisher: Springer; 2001 edition (December 2000)

Language: English

ISBN-10: 0792372778

ISBN-13: 978-0792372776

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 1.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

Best Sellers Rank: #4,488,236 in Books (See Top 100 in Books) #54 inÂ Books > Computers &

Technology > Programming > Software Design, Testing & Engineering > Coding Theory #1614  
inÂ Books > Computers & Technology > Computer Science > Systems Analysis & Design #2208  
inÂ Books > Medical Books > Allied Health Professions > Audiology & Speech Pathology

## Customer Reviews

There are two key issues that authors must be acutely aware of when writing a book:1) They must have an idea of who the audience is2) They must try to educate and not impressOn both these counts, this book is a disaster.First the audience issue. Presumably, this book is targeted at both academia and industry. If you are in the industry and have an interest in Turbo codes, LDPC codes, Turbo Equalization, Iterative receivers etc., look elsewhere to understand these topics. This book is incomprehensible. IF you are in academia, perhaps you have a better chance of getting something out of it. But I believe the authors complicate very simple, elegant and subtle concepts to show how much they know. There are many well written papers on some of these topics and reading them is a better use of your time.There are hilarious posters that show how one can complicate the equation  $1+1=2$ . This book is a larger version of this pathology.The topics addressed are very interesting indeed. It is a travesty that one of the first books addressing them is such a poor read.

[Download to continue reading...](#)

Iterative Detection: Adaptivity, Complexity Reduction, and Applications (The Springer International Series in Engineering and Computer Science) Complexity of Lattice Problems: A Cryptographic Perspective (The Springer International Series in Engineering and Computer Science) Turbo Codes: Principles and Applications (The Springer International Series in Engineering and Computer Science) Sigma Delta Modulators: Nonlinear Decoding Algorithms and Stability Analysis (The Springer International Series in Engineering and Computer Science) Turbo Coding (The Springer International Series in Engineering and Computer Science) Simply Complexity: A Clear Guide to Complexity Theory Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development (3rd Edition) Intelligence Emerging: Adaptivity and Search in Evolving Neural Systems (MIT Press) Descriptive Complexity (Texts in Computer Science) Structure and Interpretation of Computer Programs - 2nd Edition (MIT Electrical Engineering and Computer Science) Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science (Machine Language) Entity-Relationship Approach - ER '94. Business Modelling and Re-Engineering: 13th International

Conference on the Entity-Relationship Approach, ... (Lecture Notes in Computer Science) Fraud Analytics Using Descriptive, Predictive, and Social Network Techniques: A Guide to Data Science for Fraud Detection (Wiley and SAS Business Series) Database and Expert Systems Applications: 13th International Conference, DEXA 2002, Aix-en-Provence, France, September 2-6, 2002. Proceedings (Lecture Notes in Computer Science) Eurocode '90: International Symposium on Coding Theory and Applications : Proceedings (Lecture Notes in Computer Science) A PROLOG Database System (Electronic & Electrical Engineering Research Studies. Computer Engineering Series ; 3) Numerical Optimization (Springer Series in Operations Research and Financial Engineering) Cambridge International AS and A Level Computer Science Coursebook (Cambridge International Examinations) Error-Control Coding for Computer Systems (Prentice Hall series in computer engineering)

[Dmca](#)