

# Efficiency, Complexity, and Resilience: Signal Processing and Its Applications

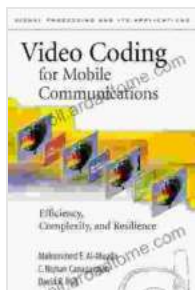
Signal processing is a powerful tool that can be used to extract information from complex and noisy data. This book provides a comprehensive overview of signal processing techniques, from the fundamentals to advanced topics. The book is written in a clear and concise style, with numerous examples and exercises to help readers understand the material.

The book is divided into five parts:

- **Part 1: Fundamentals of Signal Processing** introduces the basic concepts of signal processing, including sampling, quantization, and filtering.
- **Part 2: Time-Frequency Analysis** covers techniques for analyzing signals in the time-frequency domain, such as the short-time Fourier transform and the wavelet transform.
- **Part 3: Statistical Signal Processing** introduces the statistical techniques used to analyze and process signals, such as estimation, detection, and classification.
- **Part 4: Advanced Signal Processing Topics** covers advanced topics in signal processing, such as adaptive filtering, array processing, and speech processing.
- **Part 5: Applications of Signal Processing** provides an overview of some of the applications of signal processing, such as image

processing, radar, and communications.

The book's key features include:



## Video Coding for Mobile Communications: Efficiency, Complexity and Resilience (Signal Processing and its Applications) by Luca Berton

★★★★★ 5 out of 5

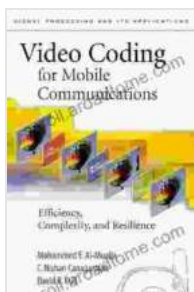
Language : English  
File size : 11198 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 225 pages



- **Comprehensive coverage** of signal processing techniques, from the fundamentals to advanced topics
- **Clear and concise writing style** with numerous examples and exercises
- **Wide range of applications** covered, such as image processing, radar, and communications
- **Suitable for a variety of audiences**, including students, engineers, and researchers

The author of the book, Dr. Simon Haykin, is a world-renowned expert in signal processing. He has authored over 20 books and numerous journal articles on the topic. Dr. Haykin is a Fellow of the IEEE and the Royal Society of Canada.

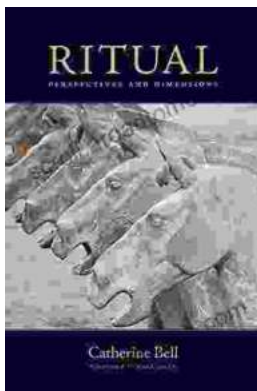
This book is a comprehensive and up-to-date resource on signal processing. It is suitable for a variety of audiences, including students, engineers, and researchers. The book's clear and concise writing style, numerous examples and exercises, and wide range of applications make it an essential resource for anyone interested in learning about signal processing.



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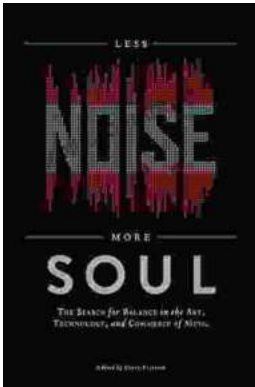
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