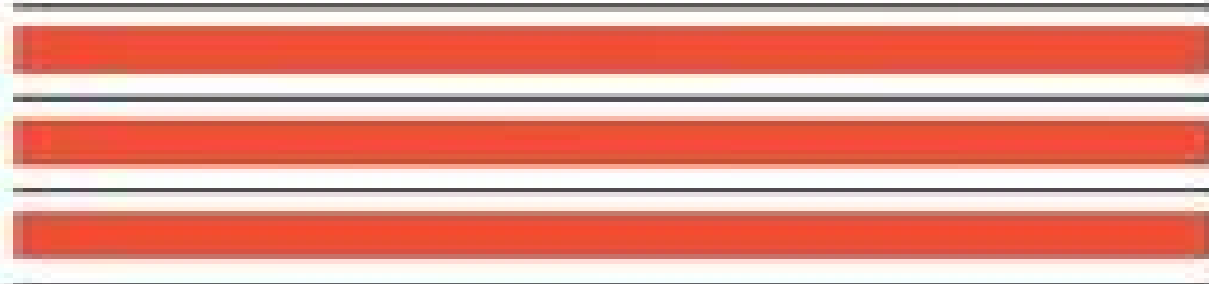

Sequence Detection for High-Density Storage Channels

**Jaekyun Moon
L. Richard Carley**



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Pragmatic Sequence Detection for Storage Channels Jaekyun Moon, 1990 *Signal Processing for High-density Magnetic Recording Channels* Hamid Reza Shafiee, 1994 Sequence Detection of Coded Signals for High Density Storage Channel Yi Ping Li, 1997

Advanced Error Control Techniques for Data Storage Systems Erozan M. Kurtas, Bane Vasic, 2018-10-03 With the massive amount of data produced and stored each year reliable storage and retrieval of information is more crucial than ever Robust coding and decoding techniques are critical for correcting errors and maintaining data integrity Comprising chapters thoughtfully selected from the highly popular Coding and Signal Processing for Magnetic Recording Systems Advanced Error Control Techniques for Data Storage Systems is a finely focused reference to the state of the art error control and modulation techniques used in storage devices The book begins with an introduction to error control codes explaining the theory and basic concepts underlying the codes Building on these concepts the discussion turns to modulation codes paying special attention to run length limited sequences followed by maximum transition run length limited and spectrum shaping codes It examines the relationship between constrained codes and error control and correction systems from both code design and architectural perspectives as well as techniques based on convolution codes With a focus on increasing data density the book also explores multi track systems soft decision decoding and iteratively decodable codes such as Low Density Parity Check LDPC Codes Turbo codes and Turbo Product Codes Advanced Error Control Techniques for Data Storage Systems offers a comprehensive collection of theory and techniques that is ideal for specialists working in the field of data storage systems

Efficient Signal Space Detection for Digital Data Storage

Channels Taehyun Jeon,1997 **Conference Record** ,1999 *Nonlinear Equalization for Digital Recording Channels*
Sapthotharan Krishnan Nair,1995 *Constrained-complexity Detection Using Signal Space Partitioning* Younggyun
Kim,1998 *Discrete-Time Models for Communication Systems Including ATM* Herwig Bruneel,Byung G. Kim,1992-12-31
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items Recently in the telecommunication industries BISDN broadband integrated services digital network has received
considerable attention since it can provide a common interface for future communication needs including video data and
speech Since information in BISDN is transported by means of discrete units of 53 octet ATM asynchronous transfer mode
cells interests in discrete time systems have increased *Discrete Time Models for Communication Systems Including ATM*
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systems a detailed description and analysis are presented for a generic discrete time model with a single server arbitrary
service times and independent arrivals The book then follows a less stringent approach and focuses more on the average
statistics and on different queueing disciplines Conventional first in out and last in first out disciplines are discussed in terms
of the average statistics Systems with multiple classes of messages without class dependent priorities are considered to
establish a discrete time conservation law Multiple classes with priorities are also considered to derive performance
measures of priority scheduling disciplines Finally a multi queue system with cyclic service is analyzed in the context of
round robin service ordering This is followed by analyses of discrete time queueing systems with more complicated input and
output processes Specifically single server systems are investigated whereby either the arrivals or the server is subject to
random interruptions Results are mainly obtained in terms of generating functions and mean values of the principal
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behavior is discussed Finally the book explores queueing models directly associated with ATM switches and multiplexers This
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