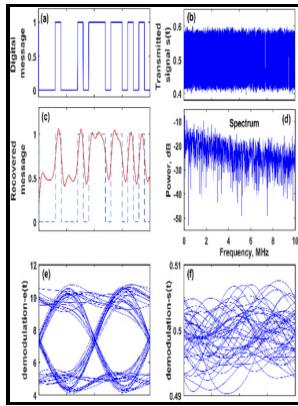


Digital communications using chaos and nonlinear dynamics

Springer - Digital Communications Using Chaos and Nonlinear Dynamics (Institute for Nonlinear Science): Liu, Jia



Description: -

- Nonlinear systems

Chaotic behavior in systems

Digital communicationsDigital communications using chaos and nonlinear dynamics

- Institute for nonlinear science (Springer-Verlag)

Institute for nonlinear scienceDigital communications using chaos and nonlinear dynamics

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CiteSeerX — Digital Communication using Chaos and Nonlinear Dynamics

It goes on to give instruction in converting continuous time signals into digital signals and discusses various methods to process the digital signals, such as filtering. Fremont About this chapter Cite this chapter as: Larson L.

CiteSeerX — Digital Communication using Chaos and Nonlinear Dynamics

Bullock English PDF 2017 554 Pages ISBN : 1785614959 32. Challenges that arise due to noise and other distortions occurring in the communication channel are pointed out and ways to improve the noise characteristics of the synchronization and to make chaos communication robust enough to work with realistic channels are discussed. This book describes the state of the art both theoretical and experimental of this novel field.

Digital Communications Using Chaos and Nonlinear Dynamics (Institute for Nonlinear Science): Liu, Jia

Tsimring has done pioneering research and published more than a hundred papers in various areas of nonlinear dynamics, pattern formation, nonlinear time series analysis, and, most recently, granular and biological physics. The book starts with an overview of signal processing, introducing readers to the field. In many cases, inherently nonlinear devices are linearized in order to achieve a certain level of linear system performance.

An Overview of Digital Communications Techniques Using Chaos and Nonlinear Dynamics

Digital Communications and Signal Processing by K.

Digital communication using chaos and nonlinear dynamics

Students are also shown how to convert MATLAB codes into firmware codes.

An Overview of Digital Communications Techniques Using Chaos and Nonlinear Dynamics

Further, students will be able to apply the basic digital signal processing techniques in their workplace.

Digital Communications Using Chaos and Nonlinear Dynamics

It will be useful for active researchers and advanced graduate students interested in this exciting new field. Both wireless modulation techniques as well as optical communications approaches are presented. The book is based on the author's popular online course at University of California, San Diego.

Digital Communications Using Chaos and Nonlinear Dynamics (Institute for Nonlinear Science): Liu, Jia

This field was born around 15 years ago, when it was first demonstrated that nonlinear systems which produce complex non-periodic noise-like chaotic signals, can be synchronized and modulated to carry useful information.

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