

<<非线性非整数序列电路及系统>>

图书基本信息

书名：<<非线性非整数序列电路及系统>>

13位ISBN编号：9789810244019

10位ISBN编号：9810244010

出版时间：2000-12

出版时间：Penguin

作者：Fortuna, I.; Arena, Paolo; Caponetto, R.

页数：203

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## <<非线性非整数序列电路及系统>>

### 内容概要

In this book, the reader will find a theoretical introduction to noninteger order systems, as well as several applications showing their features and peculiarities. The main definitions and results of research on noninteger order systems and modeling of physical noninteger phenomena are reported together with problems of their approximation. Control applications, noninteger order CNNs and circuit realizations of noninteger order systems are also presented. The book is intended for students and researchers involved in the simulation and control of nonlinear noninteger order systems, with particular attention to those involved in the study of chaotic systems and the modeling of nonlinear spatiotemporal phenomena.

<<非线性非整数序列电路及系统>>

书籍目录

Preface  
Chapter 1. Non Integer Order Circuits and Systems 1.1 Introduction: Non Integer Order Physical Laws  
1.2 Non Inductive Transmission Line 1.3 I/f Noise Spectra 1.4 Polarization Phenomena 1.5 Diffusion  
Phenomena 1.6 Acoustic Phenomena 1.7 Frequency Modulation and Bessel Function of the First Kind  
Chapter 2. Main Results on Non Integer Order Systems 2.1 Non Integer Integration: Historical Notes 2.2 Preliminaries and  
Definitions 2.3 Laplace Transforms and System's Representation 2.4 General Properties of Fractional Systems 2.5  
Impulse Response of a General Fractional System 2.6 Numerical Differentiation  
Chapter 3. Approximation of Non Integer Order Systems via Integer Order Systems 3.1 Infinite Order and Non Integer Order  
3.2 Frequency Domain Approximation 3.3 Inverse Method: Non Integer Order Modeling 3.4 An Example  
of TLme Domain Approximation 3.5 Genetic Algorithms to Approximate Non Integer Order System  
Chapter 4. Control Problem: Non Integer Order Feedback 4.1 Control Design: a Brief Review 4.2 Non  
Integer Order Correction 4.3 The CRONE Control 4.4 Complex Integration and Evolution of the CRONE 4.5  
Non Integer Derivative Control of the Steady State in 4.6 PIXD Non Integer Order Controller 4.7 Non Linear  
System Control  
Chapter 5. Non Integer Order Cellular Neural Network Systems 5.1 Standard and Non Integer  
Order CNNs 5.2 Image Processing Applications 5.3 Autowaves in Non Integer Order CNNs  
Chapter 6. Circuit Design of Non Integer Order Chaotic 6.1 Non Integer Order and Chaos 6.2 The Duffing System 6.3  
Non Integer Order CNNs and Chaos 6.4 The Two-cell CNN Circuit  
Chapter 7. Conclusion  
References  
Appendix  
Index

<<非线性非整数序列电路及系统>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介, 请支持正版图书。

更多资源请访问:<http://www.tushu007.com>