

Stochastic Resonance

Theory and Applications

Bruno Andò and Salvatore Graziani



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Stochastic Resonance Bruno Andò, Salvatore Graziani, 2012-12-06 Stochastic Resonance Theory and Applications deals with the theory of noise added systems and in particular with Stochastic Resonance a quite novel theory that was introduced in the 1980s to provide better understanding of some natural phenomena e g ice age recurrence Following the very first works a number of different applications to both natural and human produced phenomena were proposed The book aims to improve the understanding of noise based techniques and to focus on practical applications of this class of phenomena an aspect that has been very poorly investigated up to now Based on this objective the book is roughly divided into two parts The first part deals with the essential theory of noise added systems and in particular a new approach to noise added techniques that allows a number of strategies proposed in previous years to be unified The proposed approach also allows real time control of the noise characteristics assuring optimal system performance In the second part a large number of applications are described in detail in the field of electric and electronic devices with the aim of allowing readers to build their own experimental set The book comes with a diskette of educational software that the authors developed Stochastic Resonance Theory and Applications is an invaluable reference for students researchers and engineering professionals working in the fields of electric and electronic measurements electronics and signal theory

Nonstationary Systems: Theory and Applications Fakher Chaari, Jacek Leskow, Agnieszka Wylomanska, Radoslaw Zimroz, Antonio Napolitano, 2021-07-21 This book offers an overview of current and recent methods for the analysis of the nonstationary processes focusing on cyclostationary systems that are ubiquitous in various application fields Based on the 13th Workshop on Nonstationary Systems and Their Applications held on February 3 5 2020 in Grodek nad Dunajcem Poland the book merges theoretical contributions describing new statistical and intelligent methods for analyzing nonstationary processes and applied works showing how the proposed methods can be implemented in practice and do perform in real world case studies A significant part of the book is dedicated to nonstationary systems applications with a special emphasis on those in condition monitoring

Remote Sensing in Vessel Detection and Navigation Henning Heiselberg, Andrzej Stateczny, 2020-12-11 The Special Issue entitled Remote Sensing in Vessel Detection and Navigation comprises 15 articles on many topics related to remote sensing with navigational sensors The sequence of articles included in this Special Issue is in line with the latest scientific trends The latest developments in science including artificial intelligence were used It can be said that navigation and vessel detection remain important and hot topics and a lot of work will continue to be done worldwide New techniques and methods for analyzing and extracting information from navigational sensors and data have been proposed and verified Some of these will spark further research and some are already mature and can be considered for industrial implementation and development

Modern Intelligent Instruments - Theory and Application Changjian Deng, 2020-07-02 His text book serves as a guide for readers learning about the technical design of intelligent instruments

that is instruments designed to collect information about the performance of other electronic devices and systems The book introduces the readers to the concept of intelligent instrumentation and guides them on more advanced aspects of the subject including signal detection and analysis data processing performance analysis and data communication Practical examples are also provided in the latter half of the book to blend the theoretical concepts with applied knowledge for the benefit of the reader Key features Features 10 chapters covering key topics related to intelligent instrument design and operation Provides theoretical knowledge of fundamental concepts Provides practical examples of working instrument models online equipment monitoring system and a mobile robot Provides notes on the use of packages such as MATLAB ARGUINO and Proteus to develop intelligent instruments Presents information in a simple easy to understand format which is reader friendly Presents handy chapter notes and references for the reader Modern Intelligent Instruments Theory and Application is a useful textbook for engineering students and technical apprentices learning about instrumentation and PCB design and testing

Resonance Jan Awrejcewicz, 2017-11-29 Resonance is a common phenomenon which is observed both in nature and in numerous devices and structures It occurs in literally all types of vibrations To mention just a few examples acoustic mechanical or electromagnetic resonance can be distinguished In the present book 12 chapters dealing with different aspects of resonance phenomena have been presented

Advanced Computational and Communication Paradigms Siddhartha Bhattacharyya, Tapan Gandhi, Kalpana Sharma, Paramartha Dutta, 2018-06-07 The book titled Advanced Computational and Communication Paradigms Proceedings of International Conference on ICACCP 2017 Volume 1 presents refereed high quality papers of the First International Conference on Advanced Computational and Communication Paradigms ICACCP 2017 organized by the Department of Computer Science and Engineering Sikkim Manipal Institute of Technology held from 8 10 September 2017 ICACCP 2017 covers an advanced computational paradigms and communications technique which provides failsafe and robust solutions to the emerging problems faced by mankind Technologists scientists industry professionals and research scholars from regional national and international levels are invited to present their original unpublished work in this conference There were about 550 technical paper submitted Finally after peer review 142 high quality papers have been accepted and registered for oral presentation which held across 09 general sessions and 05 special sessions along with 04 keynote address and 06 invited talks This volume comprises 65 accepted papers of ICACCP 2017

Proceedings of TEPEEN 2022 Hao Zhang, Yongjian Ji, Tongtong Liu, Xiuquan Sun, Andrew David Ball, 2023-03-03 This volume gathers the latest advances innovations and applications in the field of efficiency and performance engineering as presented by leading international researchers and engineers at the 2022 conference of the Efficiency and Performance Engineering Network TEPEEN held in Beijing and Baotou China on August 18 21 2022 Topics include vibro acoustics monitoring condition based maintenance sensing and instrumentation machine health monitoring maintenance auditing and organization non destructive testing reliability asset management condition monitoring life cycle cost optimisation

prognostics and health management maintenance performance measurement manufacturing process monitoring and robot based monitoring and diagnostics The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations

Chua's Circuit Implementations Luigi Fortuna, Mattia Frasca, Maria Gabriella Xibilia, 2009 Since the birth of the Chua circuit in 1983 a considerable number of fruitful fascinating and relevant research topics have arisen In honor of the 25th anniversary of the invention of Chua's circuit this book presents the 25 years of research on the implementation of Chua's circuit and also discusses future directions and emerging applications of recent results The purpose of the book is to provide researchers PhD students and undergraduate students a research monograph containing both fundamentals on the topics and advanced results that have been recently obtained With about 60 illustrations included in the book it also shows the detailed schematics of several different implementations that can be easily reproduced with a low cost experimental setup and PC based measurement instrumentation

Proceedings of 20th International Conference on Industrial Engineering and Engineering Management Ershi Qi, Jiang Shen, Runliang Dou, 2013-12-16 The International Conference on Industrial Engineering and Engineering Management is sponsored by the Chinese Industrial Engineering Institution CMES which is the only national level academic society for Industrial Engineering The conference is held annually as the major event in this arena Being the largest and the most authoritative international academic conference held in China it provides an academic platform for experts and entrepreneurs in the areas of international industrial engineering and management to exchange their research findings Many experts in various fields from China and around the world gather together at the conference to review exchange summarize and promote their achievements in the fields of industrial engineering and engineering management For example some experts pay special attention to the current state of the application of related techniques in China as well as their future prospects such as green product design quality control and management supply chain and logistics management to address the need for amongst other things low carbon energy saving and emission reduction They also offer opinions on the outlook for the development of related techniques The proceedings offers impressive methods and concrete applications for experts from colleges and universities research institutions and enterprises who are engaged in theoretical research into industrial engineering and engineering management and its applications As all the papers are of great value from both an academic and a practical point of view they also provide research data for international scholars who are investigating Chinese style enterprises and engineering management

Progress in Industrial and Civil Engineering III Jian Guo Liang, Xun Wu, Wei Jun Yang, Wei Zhen Chen, 2014-09-19 Selected peer reviewed papers from the 2014 3rd International Conference on Civil Architectural and Hydraulic Engineering ICCAHE 2014 July 30 31 2014 Hangzhou China Selected peer reviewed papers from the 2014 3rd International Conference on Civil Architectural and Hydraulic Engineering ICCAHE 2014 July 30 31 2014 Hangzhou China

International Conference on Theory and

Application in Nonlinear Dynamics (ICAND 2012) Visarath In, Antonio Palacios, Patrick Longhini, 2013-12-13 A collection of different lectures presented by experts in the field of nonlinear science provides the reader with contemporary cutting edge research works that bridge the gap between theory and device realizations of nonlinear phenomena Representative examples of topics covered include chaos gates social networks communication sensors lasers molecular motors biomedical anomalies stochastic resonance nano oscillators for generating microwave signals and related complex systems A common theme among these and many other related lectures is to model study understand and exploit the rich behavior exhibited by nonlinear systems to design and fabricate novel technologies with superior characteristics Consider for instance the fact that a shark's sensitivity to electric fields is 400 times more powerful than the most sophisticated electric field sensor In spite of significant advances in material properties in many cases it remains a daunting task to duplicate the superior signal processing capabilities of most animals Since nonlinear systems tend to be highly sensitive to perturbations when they occur near the onset of a bifurcation there are also lectures on the general topic of bifurcation theory and on how to exploit such bifurcations for signal enhancements purposes This manuscript will appeal to researchers interested in both theory and implementations of nonlinear systems

Structural Health Monitoring Ruqiang Yan, Xuefeng Chen, Subhas Chandra Mukhopadhyay, 2017-04-29 This book highlights the latest advances and trends in advanced signal processing such as wavelet theory time frequency analysis empirical mode decomposition compressive sensing and sparse representation and stochastic resonance for structural health monitoring SHM Its primary focus is on the utilization of advanced signal processing techniques to help monitor the health status of critical structures and machines encountered in our daily lives wind turbines gas turbines machine tools etc As such it offers a key reference guide for researchers graduate students and industry professionals who work in the field of SHM

Environmental Science and Information Application

Technology David Chan, 2015-06-29 Environmental Science and Information Application Technology contains selected papers from the 2014 5th International Conference on Environmental Science and Information Application Technology ESIAT 2014 Hong Kong 7-8 November 2014 The book covers a wide variety of topics Global Environmental Change and Ecosystems Management Graphic and I

The Psychology of Learning and Motivation, 2005-02-03 The Psychology of Learning and Motivation publishes empirical and theoretical contributions in cognitive and experimental psychology ranging from classical and instrumental conditioning to complex learning and problem solving Each chapter provides a thoughtful integration of a body of work

Fuzzy Neural Network Theory and Application Puyin Liu, Hong-Xing Li, 2004 This book systematically synthesizes research achievements in the field of fuzzy neural networks in recent years It also provides a comprehensive presentation of the developments in fuzzy neural networks with regard to theory as well as their application to system modeling and image restoration Special emphasis is placed on the fundamental concepts and architecture analysis of fuzzy neural networks The book is unique in treating all kinds of fuzzy neural networks and their learning algorithms and universal

approximations and employing simulation examples which are carefully designed to help the reader grasp the underlying theory This is a valuable reference for scientists and engineers working in mathematics computer science control or other fields related to information processing It can also be used as a textbook for graduate courses in applied mathematics computer science automatic control and electrical engineering Contents Fuzzy Neural Networks for Storing and Classifying Fuzzy Associative Memory OCo Feedback Networks Regular Fuzzy Neural Networks Polygonal Fuzzy Neural Networks Approximation Analysis of Fuzzy Systems Stochastic Fuzzy Systems and Approximations Application of FNN to Image Restoration Readership Scientists engineers and graduate students in applied mathematics computer science automatic control and information processing

Through-life Engineering Services Louis Redding,Rajkumar Roy,2014-12-26 Demonstrating the latest research and analysis in the area of through life engineering services TES this book utilizes case studies and expert analysis from an international array of practitioners and researchers who together represent multiple manufacturing sectors aerospace railway and automotive to maximize reader insights into the field of through life engineering services As part of the EPSRC Centre in Through life Engineering Services program to support the academic and industrial community this book presents an overview of non destructive testing techniques and applications and provides the reader with the information needed to assess degradation and possible automation of through life engineering service activities The latest developments in maintenance repair overhaul MRO are presented with emphasis on cleaning technologies repair and overhaul approaches and planning and digital assistance The impact of these technologies on sustainable enterprises is also analyzed This book will help to support the existing TES community and will provide future studies with a strong base from which to analyze and apply technological trends to real world examples

Time-Delayed Chaotic Dynamical Systems Tanmoy Banerjee,Debabrata Biswas,2017-12-06 This book describes systematic design techniques for chaotic and hyperchaotic systems the transition from one to the other and their implementation in electronic circuits It also discusses the collective phenomena manifested by these systems when connected by a physical coupling scheme Readers will be introduced to collective behaviours such as synchronization and oscillation suppression and will learn how to implement nonlinear differential equations in electronic circuits Further the book shows how the choice of nonlinearity can lead to chaos and hyperchaos even in a first order time delayed system The occurrence of these phenomena together with the efficiency of the design techniques described is presented with theoretical studies numerical characterization and experimental demonstrations with the corresponding electronic circuits helping readers grasp the design aspects of dynamical systems as a whole in electronic circuits The authors then discuss the usefulness of an active all pass filter as the delay element supported by their own experimental observations as well as theoretical and numerical results Including detailed analysis as well as computations with suitable dedicated software packages the book will be of interest to all academics and researchers who wish to expand their knowledge of the subtlety of nonlinear time delayed

systems It also offers a valuable source of information for engineers linking the design techniques of chaotic time delayed systems with their collective phenomena

Advances in Natural Computation Lipo Wang, Ke Chen, Yew Soon Ong, 2005-08-25 This book and its sister volumes i e LNCS vols 3610 3611 and 3612 are the proceedings of the 1st International Conference on Natural Computation ICNC 2005 jointly held with the 2nd International Conference on Fuzzy Systems and Knowledge Discovery FSKD 2005 LNAI vols 3613 and 3614 from 27 to 29 August 2005 in Changsha Hunan China

Networked Consumers Steven Silver, 2011-12-14 Personal consumption accounts for two thirds of GDP yet recent economic events have emphasised our limited ability to translate consumption patterns into policy Steven Silver analyses this understudied area exploring the network memberships that emerge from our everyday lives and the consumption patterns these create

Chemical Sensors Ghenadii Korotcenkov, 2012-08-15 Chemical sensors are integral to the automation of myriad industrial processes and everyday monitoring of such activities as public safety engine performance medical therapeutics and many more This 4 volume reference work covering simulation and modeling will serve as the perfect complement to Momentum Press s 6 volume reference works Chemical Sensors Fundamentals of Sensing Materials and Chemical Sensors Comprehensive Sensor Technologies which present detailed information related to materials technologies construction and application of various devices for chemical sensing This 4 volume comprehensive reference work analyzes approaches used for computer simulation and modeling in various fields of chemical sensing and discusses various phenomena important for chemical sensing such as bulk and surface diffusion adsorption surface reactions sintering conductivity mass transport interphase interactions etc In this work it will be shown that theoretical modeling and simulation of the processes being a basic for chemical sensors operation could provide considerable progress in choosing both optimal materials and optimal configurations of sensing elements for using in chemical sensors Each simulation and modeling volume in the present series reviews modeling principles and approaches peculiar to specific groups of materials and devices applied for chemical sensing Volume 3 Solid State Devices covers phenomenological and molecular modelling of processes which control sensing characteristics and parameters of various solid state chemical sensors including surface acoustic wave MIS microcantilever thermoelectric based devices and sensor array aimed for electronic nose design Modeling of nanomaterials and nanosystems promising for solid state chemical sensors design is analyzed as well

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