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Guanrong Chen
Xinghuo Yu (Eds.)

Chaos Control

Theory and Applications



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Chaos Control Theory And Applications

**Azar, Ahmad Taher,Vaidyanathan,
Sundarapandian**



Chaos Control Theory And Applications:

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Chaos Control Guanrong Chen,Xinghuo Yu,2003-07-25

Chaos control refers to purposefully manipulating chaotic dynamical behaviors of some complex nonlinear systems There exists no similar control theory oriented book available in the market that is devoted to the subject of chaos control written by control engineers for control engineers World renowned leading experts in the field provide their state of the art survey about the extensive research that has been done over the last few years in this subject The new technology of chaos control has major impact on novel engineering applications such as telecommunications power systems liquid mixing internet technology high performance circuits and devices biological systems modeling like the brain and the heart and decision making The book is not only aimed at active researchers in the field of chaos control involving control and systems engineers theoretical and experimental physicists and applied mathematicians but also at a general audience in related fields

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION - Volume XIII Heinz D. Unbehauen,2009-10-11 This Encyclopedia of Control Systems Robotics and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Control Systems Robotics and Automation and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Advances in Chaos Theory and Intelligent Control Ahmad Taher Azar,Sundarapandian Vaidyanathan,2016-04-15 The book reports on the latest advances in and applications of chaos theory and intelligent control Written by eminent scientists and active researchers and using a clear matter of fact style it covers advanced theories methods and applications in a variety of research areas and explains key concepts in modeling analysis and control of chaotic and hyperchaotic systems Topics include fractional chaotic systems chaos control chaos synchronization memristors jerk circuits chaotic systems with hidden attractors mechanical and

biological chaos and circuit realization of chaotic systems The book further covers fuzzy logic controllers evolutionary algorithms swarm intelligence and petri nets among other topics Not only does it provide the readers with chaos fundamentals and intelligent control based algorithms it also discusses key applications of chaos as well as multidisciplinary solutions developed via intelligent control The book is a timely and comprehensive reference guide for graduate students researchers and practitioners in the areas of chaos theory and intelligent control

Advances in System Dynamics and Control Azar, Ahmad Taher, Vaidyanathan, Sundarapandian, 2018-02-09 Complex systems are pervasive in many areas of science With the increasing requirement for high levels of system performance complex systems has become an important area of research due to its role in many industries Advances in System Dynamics and Control provides emerging research on the applications in the field of control and analysis for complex systems with a special emphasis on how to solve various control design and observer design problems nonlinear systems interconnected systems and singular systems Featuring coverage on a broad range of topics such as adaptive control artificial neural network and synchronization this book is an important resource for engineers professionals and researchers interested in applying new computational and mathematical tools for solving the complicated problems of mathematical modeling simulation and control

Handbook of Chaos Control Heinz Georg Schuster, 1999-04-06 Heinz G Schuster ed Handbook of Chaos Control Chaos that is irregular dynamical behaviour is ubiquitous in nature and occurs in a wide range of systems including lasers fluids etc heart beats and brain waves Before 1990 the emergence of chaos in a system was mostly considered as a nuisance because chaotic systems are hard to predict due to their sensitivity to small perturbations After 1990 it became clear that this sensitive dependence offers the unique possibility to control these systems with a minimum of additional energy This handbook provides a comprehensive up to date overview of the field It starts with an introduction to chaos theory and covers all known methods of chaos control from parametric feedback to neuronal networks A large part of the handbook is devoted to applications which range from control of electronic circuits the control of lasers and chemical plants up to the antichaos control in biological systems which offers the possibility to avoid epileptic seizures

Energy Engineering and Environmental Engineering Tony Sun, 2013-04-10 Selected peer reviewed papers from the 2013 International Conference on Energy Engineering and Environmental Engineering ICEEE 2013 January 18 19 2013 Hangzhou China

Advances and Applications in Nonlinear Control Systems Sundarapandian Vaidyanathan, Christos Volos, 2016-03-17 The book reports on the latest advances and applications of nonlinear control systems It consists of 30 contributed chapters by subject experts who are specialized in the various topics addressed in this book The special chapters have been brought out in the broad areas of nonlinear control systems such as robotics nonlinear circuits power systems memristors underwater vehicles chemical processes observer design output regulation backstepping control sliding mode control time delayed control variables structure control robust adaptive control fuzzy logic control chaos hyperchaos jerk systems hyperjerk systems chaos control

chaos synchronization etc Special importance was given to chapters offering practical solutions modeling and novel control methods for the recent research problems in nonlinear control systems This book will serve as a reference book for graduate students and researchers with a basic knowledge of electrical and control systems engineering The resulting design procedures on the nonlinear control systems are emphasized using MATLAB software

Advances and Applications in Chaotic Systems Sundarapandian Vaidyanathan, Christos Volos, 2016-03-22 This book reports on the latest advances and applications of chaotic systems It consists of 25 contributed chapters by experts who are specialized in the various topics addressed in this book The chapters cover a broad range of topics of chaotic systems such as chaos hyperchaos jerk systems hyperjerk systems conservative and dissipative systems circulant chaotic systems multi scroll chaotic systems finance chaotic system highly chaotic systems chaos control chaos synchronization circuit realization and applications of chaos theory in secure communications mobile robot memristors cellular neural networks etc Special importance was given to chapters offering practical solutions modeling and novel control methods for the recent research problems in chaos theory This book will serve as a reference book for graduate students and researchers with a basic knowledge of chaos theory and control systems The resulting design procedures on the chaotic systems are emphasized using MATLAB software

Handbook of Chaos Control Eckehard Schöll, Heinz Georg Schuster, 2008-09-08 This long awaited revised second edition of the standard reference on the subject has been considerably expanded to include such recent developments as novel control schemes control of chaotic space time patterns control of noisy nonlinear systems and communication with chaos as well as promising new directions in research The contributions from leading international scientists active in the field provide a comprehensive overview of our current level of knowledge on chaos control and its applications in physics chemistry biology medicine and engineering In addition they show the overlap with the traditional field of control theory in the engineering community An interdisciplinary approach of interest to scientists and engineers working in a number of areas

The Control of Chaos: Theory and Applications, 2000 *Applications of Sliding Mode Control in Science and Engineering* Sundarapandian Vaidyanathan, Chang-Hua Lien, 2017-04-06 Gathering 20 chapters contributed by respected experts this book reports on the latest advances in and applications of sliding mode control in science and engineering The respective chapters address applications of sliding mode control in the broad areas of chaos theory robotics electrical engineering physics chemical engineering memristors mechanical engineering environmental engineering finance and biology Special emphasis has been given to papers that offer practical solutions and which examine design and modeling involving new types of sliding mode control such as higher order sliding mode control terminal sliding mode control super twisting sliding mode control and integral sliding mode control This book serves as a unique reference guide to sliding mode control and its recent applications for graduate students and researchers with a basic knowledge of electrical and control systems engineering

Chaos for Engineers Tomasz Kapitaniak, 2012-12-06 Chaos occurs widely in engineering and natural systems Historically it has been

noted only as irregular or unpredictable behaviour and often attributed to random external influences Further studies have shown that chaotic phenomena are completely deterministic and characteristic for typical nonlinear systems These studies posed the question of the practical applications of chaos One of the possible answers is to control chaotic behaviour in such a way as to make it predictable Recently there have been examples of the potential usefulness of chaotic behaviour and this has caused growing interest among engineers and applied scientists In this book the new mathematical ideas in nonlinear dynamics are described such that engineers can apply them in real physical systems Manufacturing Science and Technology, ICMST2011 Wu Fan, 2011-11-22 Selected peer reviewed papers from the 2011 International Conference on Manufacturing Science and Technology ICMST 2011 September 16 18 2011 Singapore **Measuring Technology and Mechatronics Automation IV** Zhi Xiang Hou, 2011-10-24 Selected peer reviewed papers from the Fourth International Conference on Measuring Technology and Mechatronics Automation ICMTMA 2012 January 6 7 2012 Sanya China

Control and Chaos Kevin Judd, 1997-12 This volume contains the proceedings of the US Australia workshop on Control and Chaos held in Honolulu Hawaii from 29 June to 1 July 1995 The workshop was jointly sponsored by the National Science Foundation USA and the Department of Industry Science and Technology Australia under the US Australia agreement Control and Chaos it brings back memories of the endless reruns of Get Smart where the good guys worked for Control and the bad guys were associated with Chaos In keeping with current events Control and Chaos are no longer adversaries but are now working together In fact bringing together workers in the two areas was the focus of the workshop The objective of the workshop was to bring together experts in dynamical systems theory and control theory and applications workers in both fields to focus on the problem of controlling nonlinear and potentially chaotic systems using limited control effort This involves finding and using orbits in nonlinear systems which can take a system from one region of state space to other regions where we wish to stabilize the system Control is used to generate useful chaotic trajectories where they do not exist and to identify and take advantage of useful ones where they do exist A controller must be able to nudge a system into a proper chaotic orbit and know when to come off that orbit Also it must be able to identify regions of state space where feedback control will be effective **Applications of Mathematics in Engineering and Economics** Michail D.

Todorov, 2008-11-19 All papers have been peer reviewed The main goal of this series of conferences is to bring together experts and young talented scientists from Bulgaria and abroad to discuss modern trends and to ensure exchange of views in various applications of mathematics in engineering physics economics biology etc Keeping the main topics of the previous AMEE conferences as well as the big success of AMEE 07 this year's 34th issue was again subject to the motto Nonlinear phenomena mathematical theory and environmental reality The organizing Committee encouraged the participation of senior and postgraduate students and organized a separate youth session The invited speakers organized two special sessions Within the 34th Conference AMEE 08 a Round Table Presentations and Discussion on Mathematics Education in Bachelor

Degree Programs and in Master Degree Programs Conference Tutorial Introduction to Software Agents and Their Applications and Workshop on Grid and Scientific Engineering Application GRID SEA took place The publishing promotion and distribution the proceedings among the mathematical and related societies taking an interest in its topics is an integral part of the Conference *IEEE Circuits & Devices* ,1997 **Handbook of Applications of Chaos Theory** Christos H. Skiadas,Charilaos Skiadas,2017-12-19 In addition to explaining and modeling unexplored phenomena in nature and society chaos uses vital parts of nonlinear dynamical systems theory and established chaotic theory to open new frontiers and fields of study Handbook of Applications of Chaos Theory covers the main parts of chaos theory along with various applications to diverse areas Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications Accessible to scientists engineers and practitioners in a variety of fields the book discusses the intermittency route to chaos evolutionary dynamics and deterministic chaos and the transition to phase synchronization chaos It presents important contributions on strange attractors self exciting and hidden attractors stability theory Lyapunov exponents and chaotic analysis It explores the state of the art of chaos in plasma physics plasma harmonics and overtone coupling It also describes flows and turbulence chaotic interference versus decoherence and an application of microwave networks to the simulation of quantum graphs The book proceeds to give a detailed presentation of the chaotic rogue and noisy optical dissipative solitons parhelic like circle and chaotic light scattering and interesting forms of the hyperbolic prism the Poincar disc and foams It also covers numerous application areas from the analysis of blood pressure data and clinical digital pathology to chaotic pattern recognition to economics to musical arts and research Mathematical Reviews ,2004

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