

Lecture Notes in Physics

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Chaotic and Stochastic Behaviour in Automatic Production Lines



North-Holland Publishing

Chaotic Stochastic Behaviour In Automa

P. Garbaczewski



Chaotic Stochastic Behaviour In Automa:

Stochastic Modelling In Biology: Relevant Mathematical Concepts And Recent Applications Petre

Tautu,1990-12-05 These proceedings focus on future prospects as well as on the present status in some important areas of applied probability and mathematical biology Some papers have educational intentions regarding the mathematical modelling of special biological situations The workshop was the third one in Heidelberg dealing with stochastic modelling in biology e g cell biology embryology oncology epidemiology and genetics Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,1994 **Mathematical Reviews** ,1985

Modelling, State Observation and Diagnosis of Quantised Systems Jochen Schröder,2002-10-09 Ongoing advances in science and engineering enable mankind to design and operate increasingly sophisticated systems Both their design and operation require the understanding of the system and its interaction with the environment This necessitates the formalisation of the knowledge about the system by models A major issue is what kind of model is best suited for a given task This book is about the supervision of continuous dynamical systems Such systems are typically described by differential equations However this does not automatically mean that differential equations are proper models for solving supervision tasks Instead this book and recent approaches in literature show that supervision tasks do in general not require the use of such precise models as differential equations This is of interest because uncertainties typically occurring in supervision make the use of precise models very difficult Alternative approaches therefore use less precise models such as discrete event descriptions to solve supervision tasks on a higher level of abstraction Discrete event descriptions in form of automata are one of the key elements of this book To reach this higher level of abstraction uncertainties by quantisation are introduced on purpose taking into account a loss of precision This is one of the main difference to other approaches When using numerical models like transfer functions or differential equations uncertainties make the analysis more difficult Not so here where the system is described on a qualitative level on which uncertainties are naturally incorporated The book presents a new way to describe systems for supervision Preparing this book I learned that the key to solve supervision problems is simplicity

Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-20 The Combinatory Systems Theory Piero

Mella,2017-05-11 This study adopts the logic of Systems Thinking and Control Systems presenting a simple but complete theory called the Theory of Combinatory Systems This new theory is able to describe interpret explain simulate and control collective phenomena and their observable effects Despite specific differences among these phenomena many of which are one way non repeatable or reproducible they can all be described or explained and thus understood using the model as simple as it is general of combinatory systems that is systems formed by collectivities or populations of non connected and unorganized individuals of some species which appear to be directed by an invisible hand that guides the analogous actions of similar individuals in order to produce an emerging collective phenomenon Combinatory Systems function due to the

presence of micro control systems which operating at the individual level lead to uniform micro behavior by individuals in order to eliminate the gap with respect to the objective that is represented or revealed by the global information macro behavior or effect The book also examines Combinatory Automata which represent a powerful tool for simulating the most relevant combinatory systems In stochastic combinatory automata when both probabilities and periods of transition of state are agent time state sensitive the probabilistic micro behaviors are conditioned by the macro behavior of the entire system which makes the micro macro feedback more evident The Combinatory Systems Theory Understanding Modeling and Simulating Collective Phenomena is composed of four main chapters Chapter 1 presents the basic ideas behind the theory which are analysed in some detail Chapter 2 describes the heuristic models of several relevant combinatory systems observable in different environments Chapter 3 while not making particular use of sophisticated mathematical and statistical tools presents the Theory of Combinatory Automata and builds models for simulating the operative logic of combinatory systems Chapter 4 tries to answer three questions are combinatory systems systems in the true sense of the term Why is this theory able to explain so many and so varied a number of phenomena even though it is based on a very simple modus operandi Are combinatory systems different than complex systems The book has been written with no prerequisite required to read and understand it in particular math statistics and computer knowledge

Chaotic and Stochastic Behaviour in Automatic Production Lines Max-Olivier Hongler,1994-07-26 Inspired by the general configuration characteristics of automatic production lines the author discusses the modelisation of important sectors of a factory Typical topics such as parts feeders part orienting devices insertion mechanisms and buffered flows are analysed using random evolution models and non linear dynamical systems theory

International Encyclopedia of Systems and Cybernetics Charles François,2011-12-07 No detailed description available for International Encyclopedia of Systems and Cybernetics

Leonardo Music Journal ,1996 *Optimal Structures in Heterogeneous Reaction Systems* Peter J. Plath,2012-12-06 The concept of this book was developed during the Winter Seminar held in the Austrian mountains at the Alpengasthof Zeinisjoch Tirol Vorarlberg from February 27 to March 3 1988 Leading experts and advanced students in mathematics physics chemistry and computer science met to present and discuss their most recent results in an informal seminar These were the circumstances that led to the idea of compiling some of the essential contributions presented at this seminar together with others describing basic features of optimal structures in heterogeneous reaction systems The aim of this book is to present the scientific results of the intensive work carried out in each of the specific fields of research Each contribution therefore presents the current state of the art together with a deeper treatment enabling a more comprehensive understanding of that particular field of work The common ideas which unite all the different contributions are already expressed in the title of this book The nature of heterogeneous reaction systems is quite varied An example is provided by the chemical systems such as noble metal particles which may act as heterogeneous catalysts for gaseous chemical compounds Under these circumstances

the metal particles and or their surfaces may undergo phase transitions during reaction Imbihl and Plath report on special catalytic systems of this kind which are of industrial importance

Simulation and Chaotic Behavior of Alpha-stable Stochastic Processes Aleksand Janicki,A. Weron,2021-07-28 Presents new computer methods in approximation simulation and visualization for a host of alpha stable stochastic processes Physics Briefs ,1994 *Chaos in Systems with Noise* Tomasz Kapitaniak,1990 As in the first edition the influence of random noise on the chaotic behavior of dissipative dynamical systems is investigated Problems are illustrated by mechanical examples This revised and updated edition contains new sections on the summary of probability theory homoclinic chaos Melnikov method routes to chaos stabilization of period doubling and Hopf bifurcation by noise Some chapters have been rewritten and new examples have been added Applied Science & Technology Index ,1997

Stochastic and Chaotic Oscillations Илья́ Исаакович Не́ймарк,Polina Solomonovna Landa,1992 This volume is devoted to stochastic and chaotic oscillations in dissipative systems It first deals with mathematical models of deterministic discrete and distributed dynamical systems It then considers the two basic trends of order and chaos and describes stochasticity transformers amplifiers and generators turbulence and phase portraits of steady state motions and their bifurcations The books also treats the topics of stochastic and chaotic attractors as well as the routes to chaos and the quantitative characteristics of stochastic and chaotic motions Finally in a chapter which comprises more than one third of the book examples are presented of systems having chaotic and stochastic motions drawn from mechanical physical chemical and biological systems

Stochastic Phenomena and chaotic behaviour in complex systems ,1984 On the Chaotic Behaviour of Stochastic Flows Moritz Friedrich Wilhelm Jochen Elard Biskamp,2012

Chaotic and Stochastic Behavior in Automatic Production Lines Max-Olivier Hongler,1994 **Chaos P.** Garbaczewski,1995 The study of chaotic behaviour of dynamical systems has triggered new efforts to reconcile deterministic and stochastic processes as well as classical and quantum physics New efforts are made to understand complex and unpredictable behaviour The papers collected in this volume give a broad overview of these activities Readers will get a glimpse of the growing importance of Levy processes for physics They will find new views on fundamental concepts of quantum physics and will see many applications of chaotic and essentially random phenomena to a number of physical problems Chaos - the Interplay Between Stochastic and Deterministic Behaviour Piotr Garbaczewski,Marek Wolf,Aleksander Weron,2014-01-15

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