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Continuous-Time Markov Chains and Applications

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Continuous Time Markov Chains And Applications A Singular Perturbation Approach

Rogemar S. Mamon, Robert J Elliott



Continuous Time Markov Chains And Applications A Singular Perturbation Approach:

Continuous-Time Markov Chains and Applications G. George Yin, Qing Zhang, 2012-11-14 This book gives a systematic treatment of singularly perturbed systems that naturally arise in control and optimization queueing networks manufacturing systems and financial engineering It presents results on asymptotic expansions of solutions of Komogorov forward and backward equations properties of functional occupation measures exponential upper bounds and functional limit results for Markov chains with weak and strong interactions To bridge the gap between theory and applications a large portion of the book is devoted to applications in controlled dynamic systems production planning and numerical methods for controlled Markovian systems with large scale and complex structures in the real world problems This second edition has been updated throughout and includes two new chapters on asymptotic expansions of solutions for backward equations and hybrid LQG problems The chapters on analytic and probabilistic properties of two time scale Markov chains have been almost completely rewritten and the notation has been streamlined and simplified This book is written for applied mathematicians engineers operations researchers and applied scientists Selected material from the book can also be used for a one semester advanced graduate level course in applied probability and stochastic processes

Continuous-time Markov chains and applications G. George Yin, Qing Zhang, 1998

Continuous-Time Markov Chains and Applications George G Yin, Qing Zhang, 1997-10-01

Continuous-Time Markov Chains and Applications George G. Yin, Qing Zhang, 2012-12-06 This book is concerned with continuous time Markov chains It develops an integrated approach to singularly perturbed Markovian systems and reveals interrelations of stochastic processes and singular perturbations In recent years Markovian formulations have been used routinely for numerous real world systems under uncertainties Quite often the underlying Markov chain is subject to rather frequent fluctuations and the corresponding states are naturally divisible to a number of groups such that the chain fluctuates very rapidly among different states within a group but jumps less frequently from one group to another Various applications in engineering economics and biological and physical sciences have posed increasing demands on an in depth study of such systems A basic issue common to many different fields is the understanding of the distribution and the structure of the underlying uncertainty Such needs become even more pressing when we deal with complex and or large scale Markovian models whose closed form solutions are usually very difficult to obtain Markov chain a well known subject has been studied by a host of researchers for many years While nonstationary cases have been treated in the literature much emphasis has been on stationary Markov chains and their basic properties such as ergodicity recurrence and stability In contrast this book focuses on singularly perturbed nonstationary Markov chains and their asymptotic properties Singular perturbation theory has a long history and is a powerful tool for a wide variety of applications

Perturbed Semi-Markov Type Processes I Dmitrii Silvestrov, 2022-03-25 This book is the first volume of a two volume monograph devoted to the study of limit and ergodic theorems for regularly and singularly perturbed Markov chains semi Markov processes and multi

alternating regenerative processes with semi Markov modulation The first volume presents necessary and sufficient conditions for weak convergence for first rare event times and convergence in the topology J for first rare event processes defined on regularly perturbed finite Markov chains and semi Markov processes The text introduces new asymptotic recurrent algorithms of phase space reduction It also addresses both effective conditions of weak convergence for distributions of hitting times as well as convergence of expectations of hitting times for regularly and singularly perturbed finite Markov chains and semi Markov processes The book also contains a comprehensive bibliography of major works in the field It provides an effective reference for both graduate students as well as theoretical and applied researchers studying stochastic processes and their applications

Discrete-Time Markov Chains G. George Yin, Qing Zhang, 2005-10-04 This book focuses on two time scale Markov chains in discrete time Our motivation stems from existing and emerging applications in optimization and control of complex systems in manufacturing wireless communication and nancial engineering Much of our e ort in this book is devoted to designing system models arising from various applications analyzing them via analytic and probabilistic techniques and developing feasible compu tionalschemes Ourmainconcernistoreducetheinherentsystemcompl ity Although each of the applications has its own distinct characteristics all of them are closely related through the modeling of uncertainty due to jump or switching random processes Oneofthesalientfeaturesofthisbookistheuseofmulti timescalesin Markovprocessesandtheirapplications Intuitively notallpartsorcom nents of a large scale system evolve at the same rate Some of them change rapidly and others vary slowly The di erent rates of variations allow us to reduce complexity via decomposition and aggregation It would be ideal if we could divide a large system into its smallest irreducible subsystems completely separable from one another and treat each subsystem indep dently However this is often infeasible in reality due to various physical constraints and other considerations Thus we have to deal with situations in which the systems are only nearly decomposable in the sense that there are weak links among the irreducible subsystems which dictate the oc sional regime changes of the system An e ective way to treat such near decomposability is time scale separation That is we set up the systems as if there were two time scales fast vs slow xii Preface Followingthetime scaleseparation weusesingularperturbationmeth ology to treat the underlying systems

Convergence of One-parameter Operator Semigroups Adam Bobrowski, 2016-07-14 Presents the classical theory of convergence of semigroups and looks at how it applies to real world phenomena

Optimal Control Theory Suresh P. Sethi, 2022-01-03 This new 4th edition offers an introduction to optimal control theory and its diverse applications in management science and economics It introduces students to the concept of the maximum principle in continuous as well as discrete time by combining dynamic programming and Kuhn Tucker theory While some mathematical background is needed the emphasis of the book is not on mathematical rigor but on modeling realistic situations encountered in business and economics It applies optimal control theory to the functional areas of management including finance production and marketing as well as the economics of growth and of

natural resources In addition it features material on stochastic Nash and Stackelberg differential games and an adverse selection model in the principal agent framework Exercises are included in each chapter while the answers to selected exercises help deepen readers understanding of the material covered Also included are appendices of supplementary material on the solution of differential equations the calculus of variations and its ties to the maximum principle and special topics including the Kalman filter certainty equivalence singular control a global saddle point theorem Sethi Skiba points and distributed parameter systems Optimal control methods are used to determine optimal ways to control a dynamic system The theoretical work in this field serves as the foundation for the book in which the author applies it to business management problems developed from his own research and classroom instruction The new edition has been refined and updated making it a valuable resource for graduate courses on applied optimal control theory but also for financial and industrial engineers economists and operational researchers interested in applying dynamic optimization in their fields **Hidden Markov**

Models in Finance Rogemar S. Mamon, Robert J Elliott, 2007-04-26 A number of methodologies have been employed to provide decision making solutions to a whole assortment of financial problems in today s globalized markets Hidden Markov Models in Finance by Mamon and Elliott will be the first systematic application of these methods to some special kinds of financial problems namely pricing options and variance swaps valuation of life insurance policies interest rate theory credit risk modeling risk management analysis of future demand and inventory level testing foreign exchange rate hypothesis and early warning systems for currency crises This book provides researchers and practitioners with analyses that allow them to sort through the random noise of financial markets i e turbulence volatility emotion chaotic events etc and analyze the fundamental components of economic markets Hence Hidden Markov Models in Finance provides decision makers with a clear accurate picture of core financial components by filtering out the random noise in financial markets **Stochastic**

Processes: Modeling and Simulation D N Shanbhag, Calyampudi Radhakrishna Rao, 2003-02-24 This sequel to volume 19 of Handbook on Statistics on Stochastic Processes Modelling and Simulation is concerned mainly with the theme of reviewing and in some cases unifying with new ideas the different lines of research and developments in stochastic processes of applied flavour This volume consists of 23 chapters addressing various topics in stochastic processes These include among others those on manufacturing systems random graphs reliability epidemic modelling self similar processes empirical processes time series models extreme value theory applications of Markov chains modelling with Monte Carlo techniques and stochastic processes in subjects such as engineering telecommunications biology astronomy and chemistry particular with modelling simulation techniques and numerical methods concerned with stochastic processes The scope of the project involving this volume as well as volume 19 is already clarified in the preface of volume 19 The present volume completes the aim of the project and should serve as an aid to students teachers researchers and practitioners interested in applied stochastic processes **Stochastic Analysis, Control, Optimization and Applications** William M. McEneaney, G. George

Yin, Qing Zhang, 2012-12-06 In view of Professor Wendell Fleming's many fundamental contributions his profound influence on the mathematical and systems theory communities his service to the profession and his dedication to mathematics we have invited a number of leading experts in the fields of control optimization and stochastic systems to contribute to this volume in his honor on the occasion of his 70th birthday These papers focus on various aspects of stochastic analysis control theory and optimization and applications They include authoritative expositions and surveys as well as research papers on recent and important issues The papers are grouped according to the following four major themes 1 large deviations risk sensitive and Hoc control 2 partial differential equations and viscosity solutions 3 stochastic control filtering and parameter estimation and 4 mathematical finance and other applications We express our deep gratitude to all of the authors for their invaluable contributions and to the referees for their careful and timely reviews We thank Harold Kushner for having graciously agreed to undertake the task of writing the foreword Particular thanks go to H Thomas Banks for his help advice and suggestions during the entire preparation process as well as for the generous support of the Center for Research in Scientific Computation The assistance from the Birkhauser professional staff is also greatly appreciated

Mathematics of Finance George Yin, Qing Zhang, 2004 Contains papers based on talks given at the first AMS IMS SIAM Joint Summer Research Conference on Mathematics of Finance held at Snowbird This book includes such topics as modeling estimation optimization control and risk assessment and management It is suitable for students interested in mathematical finance

Engineering Mathematics II Sergei Silvestrov, Milica Rančić, 2017-02-10 This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models structures concepts problems and computational methods and algorithms most relevant for applications in modern technologies and engineering It addresses mathematical methods of algebra applied matrix analysis operator analysis probability theory and stochastic processes geometry and computational methods in network analysis data classification ranking and optimisation The individual chapters cover both theory and applications and include a wealth of figures schemes algorithms tables and results of data analysis and simulation Presenting new methods and results reviews of cutting edge research and open problems for future research they equip readers to develop new mathematical methods and concepts of their own and to further compare and analyse the methods and results discussed The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015 the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology the International Workshop on Engineering Mathematics Algebra Analysis and Electromagnetics and the 1st Swedish Estonian International Workshop on Engineering Mathematics Algebra Analysis and Applications It serves as a source of inspiration for a broad spectrum of researchers and research students in applied

mathematics as well as in the areas of applications of mathematics considered in the book **Mathematical Methods in Robust Control of Linear Stochastic Systems** Vasile Dragan, Toader Moroza, Adrian-Mihail Stoica, 2007-02-03 Linear stochastic systems are successfully used to provide mathematical models for real processes in fields such as aerospace engineering communications manufacturing finance and economy This monograph presents a useful methodology for the control of such stochastic systems with a focus on robust stabilization in the mean square linear quadratic control the disturbance attenuation problem and robust stabilization with respect to dynamic and parametric uncertainty Systems with both multiplicative white noise and Markovian jumping are covered Key Features Covers the necessary pre requisites from probability theory stochastic processes stochastic integrals and stochastic differential equations Includes detailed treatment of the fundamental properties of stochastic systems subjected both to multiplicative white noise and to jump Markovian perturbations Systematic presentation leads the reader in a natural way to the original results New theoretical results accompanied by detailed numerical examples Proposes new numerical algorithms to solve coupled matrix algebraic Riccati equations The unique monograph is geared to researchers and graduate students in advanced control engineering applied mathematics mathematical systems theory and finance It is also accessible to undergraduate students with a fundamental knowledge in the theory of stochastic systems Credit Risk: Modeling, Valuation and Hedging Tomasz R. Bielecki, Marek Rutkowski, 2013-03-14 Mathematical finance and financial engineering have been rapidly expanding fields of science over the past three decades The main reason behind this phenomenon has been the success of sophisticated quantitative methodologies in helping professionals manage financial risks It is expected that the newly developed credit derivatives industry will also benefit from the use of advanced mathematics This industry has grown around the need to handle credit risk which is one of the fundamental factors of financial risk In recent years we have witnessed a tremendous acceleration in research efforts aimed at better comprehending modeling and hedging this kind of risk Although in the first chapter we provide a brief overview of issues related to credit risk our goal was to introduce the basic concepts and related notation rather than to describe the financial and economical aspects of this important sector of financial market The interested reader may consult for instance Francis et al 1999 or Nelken 1999 for a much more exhaustive description of the credit derivatives industry

Integrated Models in Production Planning, Inventory, Quality, and Maintenance M.A. Rahim, Mohamed Ben-Daya, 2001-05-31 Discusses developments in the integration of production quality and maintenance models critical components of the manufacturing system The effective integration of these four components gives a manufacturing operation the competitive edge in today's global market place *Modeling Uncertainty* Moshe Dror, Pierre L'Ecuyer, Ferenc Szidarovszky, 2019-11-05 Modeling Uncertainty An Examination of Stochastic Theory Methods and Applications is a volume undertaken by the friends and colleagues of Sid Yakowitz in his honor Fifty internationally known scholars have collectively contributed 30 papers on modeling uncertainty to this volume Each of these papers was carefully reviewed and in the

majority of cases the original submission was revised before being accepted for publication in the book. The papers cover a great variety of topics in probability, statistics, economics, stochastic optimization, control theory, regression analysis, simulation, stochastic programming, Markov decision process, application in the HIV context and others. There are papers with a theoretical emphasis and others that focus on applications. A number of papers survey the work in a particular area and in a few papers the authors present their personal view of a topic. It is a book with a considerable number of expository articles which are accessible to a nonexpert, a graduate student in mathematics, statistics, engineering and economics departments or just anyone with some mathematical background who is interested in a preliminary exposition of a particular topic. Many of the papers present the state of the art of a specific area or represent original contributions which advance the present state of knowledge. In sum, it is a book of considerable interest to a broad range of academic researchers and students of stochastic systems.

Handbook of Maintenance Management and Engineering Mohamed Ben-Daya, Salih O. Duffuaa, Abdul Raouf, Jezdimir Knezevic, Daoud Ait-Kadi, 2009-07-30. To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance, whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering.

Nonlinearly Perturbed Semi-Markov Processes Dmitrii Silvestrov, Sergei Silvestrov, 2017-09-06. The book presents new methods of asymptotic analysis for nonlinearly perturbed semi-Markov processes with a finite phase space. These methods are based on special time-space screening procedures for sequential phase space reduction of semi-Markov processes combined with the systematical use of operational calculus for Laurent asymptotic expansions. Effective recurrent algorithms are composed for getting asymptotic expansions without and with explicit upper bounds for remainders for power moments of hitting times, stationary and conditional quasi-stationary distributions for nonlinearly perturbed semi-Markov processes. These results are illustrated by asymptotic expansions for birth-death type semi-Markov processes which play an important role in various applications.

The book will be a useful contribution to the continuing intensive studies in the area. It is an essential reference for theoretical and applied researchers in the field of stochastic processes and their applications that will contribute to continuing extensive studies in the area and remain relevant for years to come. Industrial Statistics Christos P. Kitsos, Lutz Edler, 2012-12-06. Devoted to the growing impact of statistical methodology and statistical computing in industry, the aim of this book is to link the three components: Statistics, industry, computers. Different areas of industrial statistics are presented by a number of excellent contributions. The following topics are covered: Quality control, engineering and monitoring, reliability and failure time analysis, experimental design, repeated measurements, multiple inference, pharmaceutical statistics, computing, imaging and perception. This book concentrates on the interface between statistical needs in industry and statistical methods developed by statisticians and engineers.

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