
STOCHASTIC MODELLING AND CONTROL

Contributed by: Josefa Linares-Perez, Serena Doria, David Opeyemi, Tiong Wee Lim, Ivan Ivanov, Nicholas Nechval, Stanislav Jurečka, Piergorgio Alotto, Gerardo Blanco, Xiaojun Yang, Daniele Menniti et al.

Stochastic Modelling And Control

V. G. Kulkarni



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Stochastic Modelling and Control Mark Davis, 2013-03-08 This book aims to provide a unified treatment of input output modelling and of control for discrete time dynamical systems subject to random disturbances The results presented are of wide applicability in control engineering operations research econometric modelling and many other areas There are two distinct approaches to mathematical modelling of physical systems a direct analysis of the physical mechanisms that comprise the process or a black box approach based on analysis of input output data The second approach is adopted here although of course the properties of the models we study which within the limits of linearity are very general are also relevant to the behaviour of systems represented by such models however they are arrived at The type of system we are interested in is a discrete time or sampled data system where the relation between input and output is at least approximately linear and where additive random disturbances are also present so that the behaviour of the system must be investigated by statistical methods After a preliminary chapter summarizing elements of probability and linear system theory we introduce in Chapter 2 some general linear stochastic models both in input output and state space form Chapter 3 concerns filtering theory estimation of the state of a dynamical system from noisy observations As well as being an important topic in its own right filtering theory provides the link via the so called innovations representation between input output models as identified by data analysis and state space models as required for much contemporary control theory

Stochastic Modeling and Control Ivan Ivanov, 2012-11-28 Stochastic control plays an important role in many scientific and applied disciplines including communications engineering medicine finance and many others It is one of the effective methods being used to find optimal decision making strategies in applications The book provides a collection of outstanding investigations in various aspects of stochastic systems and their behavior The book provides a self contained treatment on practical aspects of stochastic modeling and calculus including applications drawn from engineering statistics and computer science Readers should be familiar with basic probability theory and have a working knowledge of stochastic calculus PhD students and researchers in stochastic control will find this book useful

Stochastic Modelling and Control of Multivariate Physical Systems M. A. Lauzon, 1975

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Tapiero, 2012-12-06 *Applied Stochastic Models and Control for Finance and Insurance* presents at an introductory level some essential stochastic models applied in economics finance and insurance Markov chains random walks stochastic differential equations and other stochastic processes are used throughout the book and systematically applied to economic and financial applications In addition a dynamic programming framework is used to deal with some basic optimization problems The book begins by introducing problems of economics finance and insurance which involve time uncertainty and risk A number of cases are treated in detail spanning risk management volatility memory the time structure of preferences interest rates and yields etc The second and third chapters provide an introduction to stochastic models and their application Stochastic

differential equations and stochastic calculus are presented in an intuitive manner and numerous applications and exercises are used to facilitate their understanding and their use in Chapter 3 A number of other processes which are increasingly used in finance and insurance are introduced in Chapter 4 In the fifth chapter ARCH and GARCH models are presented and their application to modeling volatility is emphasized An outline of decision making procedures is presented in Chapter 6 Furthermore we also introduce the essentials of stochastic dynamic programming and control and provide first steps for the student who seeks to apply these techniques Finally in Chapter 7 numerical techniques and approximations to stochastic processes are examined This book can be used in business economics financial engineering and decision sciences schools for second year Master s students as well as in a number of courses widely given in departments of statistics systems and decision sciences

Modeling, Analysis, Design, and Control of Stochastic Systems V. G. Kulkarni, 2014-01-13 This is an introductory level text on stochastic modeling It is suited for undergraduate or graduate students in actuarial science business management computer science engineering operations research public policy statistics and mathematics It employs a large number of examples to teach how to build stochastic models of physical systems analyze these models to predict their performance and use the analysis to design and control them The book provides a self contained review of the relevant topics in probability theory The rest of the book is devoted to important classes of stochastic models In discrete and continuous time Markov models it covers the transient and long term behavior cost models and first passage times Under generalized Markov models it covers renewal processes cumulative processes and semi Markov processes All the material is illustrated with many examples There is a separate chapter on queueing models In the chapter on design the author shows how the techniques developed in the text can be used to optimize the performance of a system Finally in the last chapter linear programming is used to compute optimal control policies for stochastic systems The book emphasizes numerical answers to the problems A software package called MAXIM which runs on MATLAB is made available for downloading Vidyadhar G Kulkarni is Professor of Operations Research at the University of North Carolina at Chapel Hill He has authored a graduate level text **Modeling and Analysis of Stochastic Systems** and research articles on stochastic models of queues computer systems and telecommunication systems He holds a patent on traffic management in telecommunication networks and he has served as an editor and associate editor of *Stochastic Models and Operations Research Letters*

Stochastic Modelling for Control and Interconnections of Biological Systems Tihol Ivanov Donchev, 2024 *Two-Scale Stochastic Systems* Yuri Kabanov, Sergei Pergamenschikov, 2013-04-17 Two scale systems described by singularly perturbed SDEs have been the subject of ample literature However this new monograph develops subjects that were rarely addressed and could be given the collective description Stochastic Tikhonov Levinson theory and its applications The book provides a mathematical apparatus designed to analyze the dynamic behaviour of a randomly perturbed system with fast and slow variables In contrast to the deterministic Tikhonov Levinson theory the basic model is described in a more realistic way by stochastic

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Stochastic Modeling and Control Jacek Jakubowski, Mariusz Niewęglowski, Miklos Rásonyi, Łukasz Stettner, Instytut Matematyczny (Polska Akademia Nauk), 2020

Stochastic Models, Estimation, and Control Peter S. Maybeck, 1982-08-25 This volume builds upon the foundations set in Volumes 1 and 2 Chapter 13 introduces the basic concepts of stochastic control and dynamic programming as the fundamental means of synthesizing optimal stochastic control laws

Stochastic Models: Estimation and Control: v. 1 Maybeck, 1979-07-17 Stochastic Models Estimation and Control v 1

Bounded Dynamic Stochastic Systems Hong Wang, 2000-02-25 Over the past decades although stochastic system control has been studied intensively within the field of control engineering all the modelling and control strategies developed so far have concentrated on the performance of one or two output properties of the system such as minimum variance control and mean value control The general assumption used in the formulation of modelling and control strategies is that the distribution of the random signals involved is Gaussian In this book a set of new approaches for the control of the output probability density function of stochastic dynamic systems those subjected to any bounded random inputs has been developed In this context the purpose of control system design becomes the selection of a control signal that makes the shape of the system outputs p d f as close as possible to a given distribution The book contains material on the subjects of Control of single input single output and multiple input multiple output stochastic systems Stable adaptive control of stochastic distributions Model reference adaptive control Control of nonlinear dynamic stochastic systems Condition monitoring of bounded stochastic distributions Control algorithm design Singular stochastic systems A new representation of dynamic stochastic systems is produced by using B spline functions to describe the output p d f

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Model Predictive Control of Microgrids Carlos Bordons, Félix Garcia-Torres, Miguel A. Ridao, 2019-09-12 The book shows how the operation of renewable energy microgrids can be facilitated by the use of model predictive control MPC It gives readers a wide overview of control methods for microgrid operation at all levels ranging from quality of service to integration in the electricity market MPC based solutions are provided for the main control issues related to energy management and optimal operation of microgrids The authors present MPC techniques for case studies that include different renewable sources mainly photovoltaic and wind as well as hybrid storage using batteries hydrogen and supercapacitors Experimental results for a pilot scale microgrid are also presented as well as simulations of scheduling in the electricity market and integration of electric and hybrid vehicles into the microgrid in order to replicate the examples provided in the book and to develop and validate control algorithms on existing or projected microgrids Model Predictive Control of Microgrids will interest researchers and practitioners enabling them to keep abreast of a rapidly developing field The text will also help to guide graduate students through processes from the conception and initial design of a microgrid through its implementation to the optimization of microgrid management Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

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