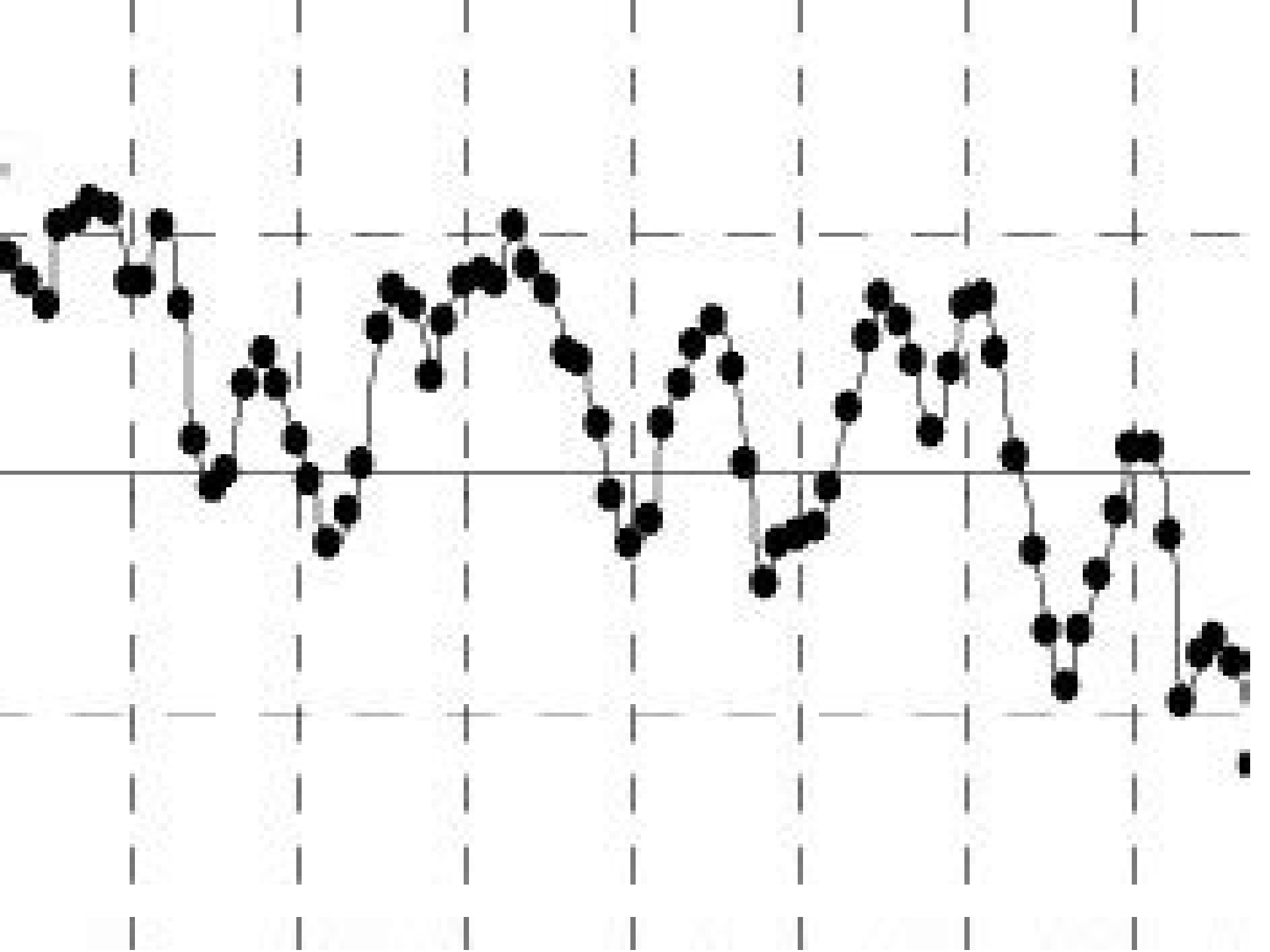

Discrete Stochastics

Edward P. C. Kao

Discrete Stochastics:

Discrete Stochastics Konrad Jacobs,1992-01-01 Discrete stochastics is the theory of discrete probability spaces This undergraduate textbook gives a concise introduction into discrete stochastics in general and into a variety of typical special topics in this field such as information theory fluctuation theory and semigroups of stochastic matrices The emphasis lies on probability theory rather than on statistical methodology Motivations interpretations and numerous examples and exercises relate the mathematical theory to stochastic experience **Discrete Stochastics** Konrad Jacobs,2012-10-29 Discrete stochastics is the theory of discrete probability spaces This undergraduate textbook gives a concise introduction into discrete stochastics in general and into a variety of typical special topics in this field such as information theory fluctuation theory and semigroups of stochastic matrices The emphasis lies on probability theory rather than on statistical methodology Motivations interpretations and numerous examples and exercises relate the mathematical theory to stochastic experience

Stochastic Processes and Their Applications Frank Beichelt,L. Paul Fatti,2001-10-18 This book introduces stochastic processes and their applications for students in engineering industrial statistics science operations research business and finance It provides the theoretical foundations for modeling time dependent random phenomena encountered in these disciplines Through numerous science and engineering based examples and exercises the author presents the subject in a comprehensible practically oriented way but he also includes some important proofs and theoretically challenging examples and exercises that will appeal to more mathematically minded readers Solutions to most of the exercises are included either in an appendix or within the text **Discrete Stochastics** Otto Moeschlin,2003-06-12 Discrete Stochastics describe the typical ways of thinking and the working methods of stochastics on an intermediate level In producing this textbook the author was faced with the challenging fact that probability theory dealing with continuous occurrence spaces uses measure and integration theory to a high degree This implies a considerable complication which is hardly consistent with the objective of an introduction To get around this problem the author uses discrete occurrence space The formulations and notations are kept in such a way that they can be extended in a straightforward way to the general theory The text is accompanied by several exercises as well as solutions Modelling, State Observation and Diagnosis of Quantised Systems Jochen Schröder,2003-07-01 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 envir ment 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 di erential equations However this does notautomaticallymeanthatdi erentialequationsarepropermodelsforso ing supervision tasks Instead this book and recent approaches in literature show that supervision tasks do in general not require the use of such precise modelsasdi erentialequations

Thisisofinterestbecauseuncertainties t ically occurring in supervision make the use of precise models very di cult 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 qu tisation are introduced on purpose taking into account a loss of precision This is one of the main di erence to other approaches When using nume calmodelsliketransferfunctionsordi erentialequations uncertaintiesmake the analysis more di cult 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 *An Introduction to Quantum Stochastic Calculus* K. R. Parthasarathy,1992 Elegantly written with obvious appreciation for fine points of higher mathematics most notable is the author s effort to weave classical probability theory into a quantum framework The American Mathematical Monthly This is an excellent volume which will be a valuable companion both for those who are already active in the field and those who are new to it Furthermore there are a large number of stimulating exercises scattered through the text which will be invaluable to students Mathematical Reviews An Introduction to Quantum Stochastic Calculus aims to deepen our understanding of the dynamics of systems subject to the laws of chance both from the classical and the quantum points of view and stimulate further research in their unification This is probably the first systematic attempt to weave classical probability theory into the quantum framework and provides a wealth of interesting features The origin of Ito s correction formulae for Brownian motion and the Poisson process can be traced to communication relations or equivalently the uncertainty principle Quantum stochastic interpretation enables the possibility of seeing new relationships between fermion and boson fields Quantum dynamical semigroups as well as classical Markov semigroups are realized through unitary operator evolutions The text is almost self contained and requires only an elementary knowledge of operator theory and probability theory at the graduate level Applied Stochastic Control of Jump Diffusions Bernt Øksendal,Agnès Sulem,2019-04-17 The main purpose of the book is to give a rigorous introduction to the most important and useful solution methods of various types of stochastic control problems for jump diffusions and their applications Both the dynamic programming method and the stochastic maximum principle method are discussed as well as the relation between them Corresponding verification theorems involving the Hamilton Jacobi Bellman equation and or quasi variational inequalities are formulated The text emphasises applications mostly to finance All the main results are illustrated by examples and exercises appear at the end of each chapter with complete solutions This will help the reader understand the theory and see how to apply it The book assumes some basic knowledge of stochastic analysis measure theory and partial differential equations The 3rd edition is an expanded and updated version of the 2nd edition containing recent developments within stochastic control and its applications Specifically there is a new chapter devoted to a comprehensive presentation of financial markets modelled by jump diffusions

and one on backward stochastic differential equations and convex risk measures Moreover the authors have expanded the optimal stopping and the stochastic control chapters to include optimal control of mean field systems and stochastic differential games *Stochastic Models of Control and Economic Dynamics* Vadim Iosifovich Arkin,I. V. Evstigneev,1987 This book is devoted to a specific problem in the general theory of automatic control sequential control under conditions of incomplete information The main results concern the case in which at each moment of continuous time only a finite number of controls are admissible and the results of control action are represented by realizations of random variables whose distributions at a given control correspond to one of several alternative hypotheses The analysis is conducted in a Bayesian framework *Stochastic Finance* Hans Föllmer,Alexander Schied,2016-07-25 This book is an introduction to financial mathematics It is intended for graduate students in mathematics and for researchers working in academia and industry The focus on stochastic models in discrete time has two immediate benefits First the probabilistic machinery is simpler and one can discuss right away some of the key problems in the theory of pricing and hedging of financial derivatives Second the paradigm of a complete financial market where all derivatives admit a perfect hedge becomes the exception rather than the rule Thus the need to confront the intrinsic risks arising from market incomleteness appears at a very early stage The first part of the book contains a study of a simple one period model which also serves as a building block for later developments Topics include the characterization of arbitrage free markets preferences on asset profiles an introduction to equilibrium analysis and monetary measures of financial risk In the second part the idea of dynamic hedging of contingent claims is developed in a multiperiod framework Topics include martingale measures pricing formulas for derivatives American options superhedging and hedging strategies with minimal shortfall risk This fourth newly revised edition contains more than one hundred exercises It also includes material on risk measures and the related issue of model uncertainty in particular a chapter on dynamic risk measures and sections on robust utility maximization and on efficient hedging with convex risk measures Contents Part I Mathematical finance in one period Arbitrage theory Preferences Optimality and equilibrium Monetary measures of risk Part II Dynamic hedging Dynamic arbitrage theory American contingent claims Superhedging Efficient hedging Hedging under constraints Minimizing the hedging error Dynamic risk measures **Discrete Stochastic Processes** Robert G. Gallager,2012-12-06 Stochastic processes are found in probabilistic systems that evolve with time Discrete stochastic processes change by only integer time steps for some time scale or are characterized by discrete occurrences at arbitrary times Discrete Stochastic Processes helps the reader develop the understanding and intuition necessary to apply stochastic process theory in engineering science and operations research The book approaches the subject via many simple examples which build insight into the structure of stochastic processes and the general effect of these phenomena in real systems The book presents mathematical ideas without recourse to measure theory using only minimal mathematical analysis In the proofs and explanations clarity is favored over formal rigor and simplicity over

generality Numerous examples are given to show how results fail to hold when all the conditions are not satisfied Audience An excellent textbook for a graduate level course in engineering and operations research Also an invaluable reference for all those requiring a deeper understanding of the subject Discrete Stochastic Processes and Applications Jean-François Collet,2018-04-05 This unique text for beginning graduate students gives a self contained introduction to the mathematical properties of stochastics and presents their applications to Markov processes coding theory population dynamics and search engine design The book is ideal for a newly designed course in an introduction to probability and information theory Prerequisites include working knowledge of linear algebra calculus and probability theory The first part of the text focuses on the rigorous theory of Markov processes on countable spaces Markov chains and provides the basis to developing solid probabilistic intuition without the need for a course in measure theory The approach taken is gradual beginning with the case of discrete time and moving on to that of continuous time The second part of this text is more applied its core introduces various uses of convexity in probability and presents a nice treatment of entropy **Neural and Stochastic Methods in Image and Signal Processing** ,1994 Stochastic Methods and Their Applications to Communications Serguei Primak,Valeri Kontorovich,Vladimir Lyandres,2004-09-03 Stochastic Methods their Applications to Communications presents a valuable approach to the modelling synthesis and numerical simulation of random processes with applications in communications and related fields The authors provide a detailed account of random processes from an engineering point of view and illustrate the concepts with examples taken from the communications area The discussions mainly focus on the analysis and synthesis of Markov models of random processes as applied to modelling such phenomena as interference and fading in communications Encompassing both theory and practice this original text provides a unified approach to the analysis and generation of continuous impulsive and mixed random processes based on the Fokker Planck equation for Markov processes Presents the cumulated analysis of Markov processes Offers a SDE Stochastic Differential Equations approach to the generation of random processes with specified characteristics Includes the modelling of communication channels and interfer ences using SDE Features new results and techniques for the of solution of the generalized Fokker Planck equation Essential reading for researchers engineers and graduate and upper year undergraduate students in the field of communications signal processing control physics and other areas of science this reference will have wide ranging appeal *Simulation Modeling and Analysis* Averill Law,2014-01-24 Since the publication of the first edition in 1982 the goal of Simulation Modeling and Analysis has always been to provide a comprehensive state of the art and technically correct treatment of all important aspects of a simulation study The book strives to make this material understandable by the use of intuition and numerous figures examples and problems It is equally well suited for use in university courses simulation practice and self study The book is widely regarded as the bible of simulation and now has more than 100 000 copies in print *Stochastic Processes* J. Medhi,1994-08-09 Revised and updated to provide a better broader and more elaborate exposure

of the subject New to this edition numerous application examples and exercises of stochastic processes in engineering systems and management detailed and current material on Markov chains Martingales renewal theory queueing and reliability more information on the latest research including the regenerative stochastic inventory system an up to date extensive bibliography and references at each chapter s end **Elements of Applied Stochastic Processes** U. Narayan Bhat,Gregory K. Miller,2002-09-06 The third edition of this volume improves on the last edition by condensing the material and organizing it into a more teachable format It provides more in depth coverage of Markov chains and simple Markov process and gives added emphasis to statistical inference in stochastic processes **An Introduction to Stochastic Processes** Edward P. C. Kao,1997 The book offers Excellent balanced development of theory and applications Topical and organizational flexibility for the instructor Use of Matlab throughout to illustrate solution methods plus a helpful Matlab tutorial at the end of the book **Stochastic Processes and Applications in Biology and Medicine** Marius Iosifescu,Petre Tăutu,1973 Vol 2 *Stochastic Models in Biology* Narendra S. Goel,Nira Richter-Dyn,2003 This monograph first published in 1974 is an attempt to demonstrate the usefulness of the theory of stochastic processes in understanding biologic phenomena at various levels of complexity from the molecular to the ecologic level The modeling of biologic systems via stochastic processes allows the incorporation of effects of secondary factors for which a detailed knowledge is missing In the first two chapters of the monograph the authors present the mathematic analysis used in the later chapters The authors attempted to make the chapters self contained and to make the book comprehensive bringing in results derived by different authors using a variety of techniques and notations In later chapters where models of various biologic phenomena are discussed introductory reviews of those phenomena are given for readers with less biologic background Nira Dyn is a professor of Applied Mathematics at Tel Aviv University in Israel since 1984 Her main field of activity now is Geometric Modeling Her previous research interests were in Approximation Theory and in Mathematical Modeling of Biological systems She is now serving in the editorial boards of the Journal of Approximation Theory and of the journal Computer Aided Geometric Design She wrote more than 130 papers and participated actively in more than 80 conferences and workshops Her education was in Applied Mathematics in Israeli institutions B Sc from the Technion Haifa in 1965 M Sc from the Weizmann Institute Rehovot in 1967 Ph D from the Weizmann Institute Rehovot in 1970 **Concepts in Probability and Stochastic Modeling** James J. Higgins,Sallie Keller-McNulty,1995 This text stresses modern ideas including simulation and interpretation of results It focuses on the aspects of probability most relevant to applications such as stochastic modeling Markov chains reliability and queuing

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