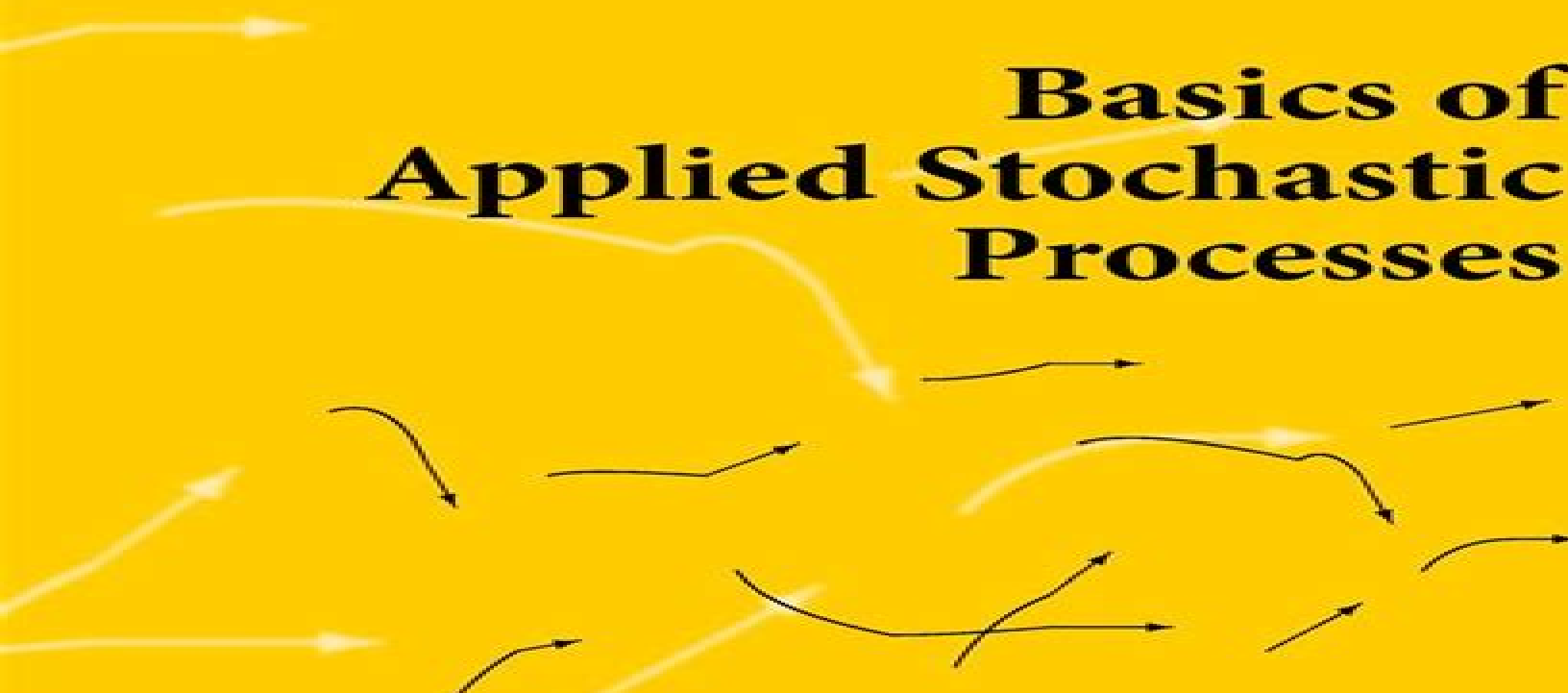


Probability and Its Applications

Richard Serfozo

**Basics of
Applied Stochastic
Processes**



 Springer

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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

Basic Stochastic Processes Pierre Devolder,Jacques Janssen,Raimondo Manca,2015-08-05 This book presents basic stochastic processes stochastic calculus including Levy processes on one hand and Markov and Semi Markov models on the other From the financial point of view essential concepts such as the Black and Scholes model VaR indicators actuarial evaluation market values fair pricing play a central role and will be presented The authors also present basic concepts so that this series is relatively self contained for the main audience formed by actuaries and particularly with ERM enterprise risk management certificates insurance risk managers students in Master in mathematics or economics and people involved in Solvency II for insurance companies and in Basel II and III for banks

Numerical Methods for Stochastic Processes Nicolas Bouleau,Dominique Lépingle,1994-01-14 Gives greater rigor to numerical treatments of stochastic models Contains Monte Carlo and quasi Monte Carlo techniques simulation of major stochastic procedures deterministic methods adapted to Markovian problems and special problems related to stochastic integral and differential equations Simulation methods are given throughout the text as well as numerous exercises

Introduction to Stochastic Processes Using R Sivaprasad Madhira,Shailaja Deshmukh,2023-11-03 This textbook presents some basic stochastic processes mainly Markov processes It begins with a brief introduction to the framework of stochastic processes followed by the thorough discussion on Markov chains which is the simplest and the most important class of stochastic processes The book then elaborates the theory of Markov chains in detail including classification of states the first passage distribution the concept of periodicity and the limiting behaviour of a Markov chain in terms of associated stationary and long run distributions The book first illustrates the theory for some typical Markov chains such as random walk gambler's ruin problem Ehrenfest model and Bienayme Galton Watson branching process and then extends the discussion when time parameter is continuous It presents some important examples of a continuous time Markov chain which include Poisson process birth process death process birth and death processes and their variations These processes play a fundamental role in the theory and applications in queuing and inventory models population growth epidemiology and engineering systems The book studies in detail the Poisson process which is the most frequently applied stochastic process in a variety of fields with its extension to a renewal process The book also presents important basic concepts on Brownian motion process a stochastic process of historic importance It covers its few extensions and variations such as Brownian bridge geometric Brownian motion process which have applications in finance stock markets inventory etc The book is designed primarily to serve as a textbook for a one semester introductory course in stochastic processes in a post graduate

program such as Statistics Mathematics Data Science and Finance It can also be used for relevant courses in other disciplines Additionally it provides sufficient background material for studying inference in stochastic processes The book thus fulfils the need of a concise but clear and student friendly introduction to various types of stochastic processes

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