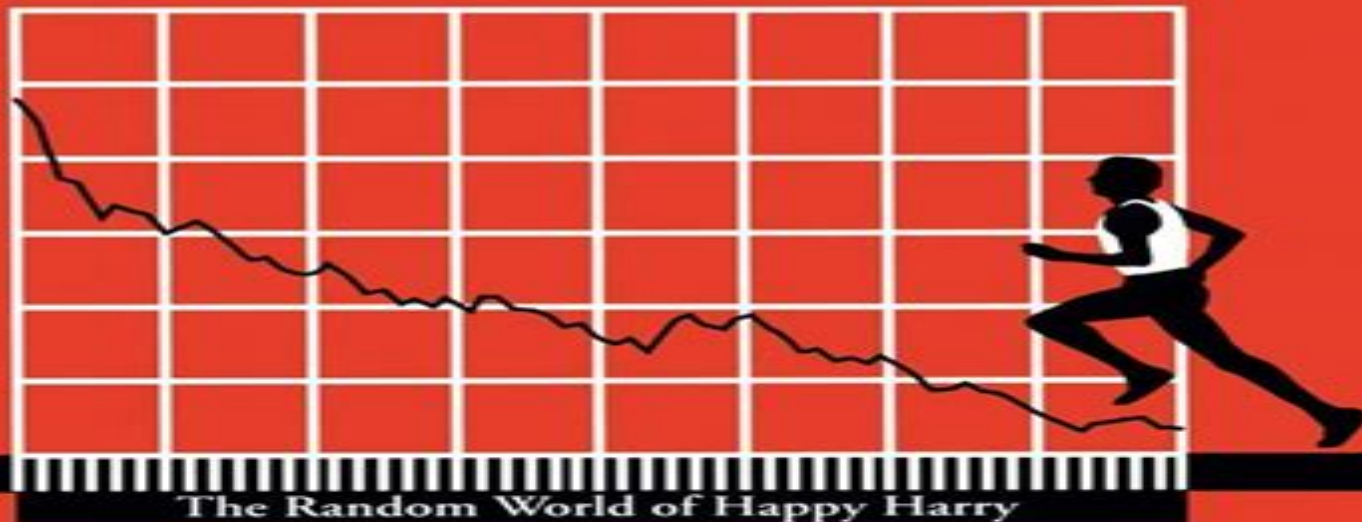


Sidney I. Resnick

Adventures in Stochastic Processes



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Adventures In Stochastic Processes

Richard Serfozo



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Stochastic Processes Sheldon M. Ross, 1995-02-28 This book contains material on compound Poisson random variables including an identity which can be used to efficiently compute moments Poisson approximations and coverage of the mean time spent in transient states as well as examples relating to the Gibb s sampler the Metropolis algorithm and mean cover time in star graphs

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

An Introduction to Stochastic Processes Edward P.C. Kao, 2019-12-18 This incorporation of computer use into teaching and learning stochastic processes takes an applications and computer oriented approach rather than a mathematically rigorous approach Solutions Manual available to instructors upon request 1997 edition *Stochastic Processes and Long Range Dependence* Gennady Samorodnitsky, 2016-11-09 This monograph is a gateway for researchers and graduate students to explore the profound yet subtle world of long range dependence also known as long memory The text is organized around the probabilistic properties of stationary processes that are important for determining the presence or absence of long memory The first few chapters serve as an overview of the general theory of stochastic processes which gives the reader sufficient background language and models for the subsequent discussion of long memory The later chapters devoted to long memory begin with an introduction to the subject along with a brief history of its development followed by a presentation of what is currently the best known approach applicable to stationary processes with a finite second moment The book concludes with a chapter devoted to the author's own less standard point of view of long memory as a phase transition and even includes some novel results Most of the material in the book has not previously been published in a single self contained volume and can be used for a one or two semester graduate topics course It is complete with helpful exercises and an appendix which describes a number of notions and results belonging to the topics used frequently throughout the book such as topological groups and an overview of the Karamata theorems on regularly varying functions

Advances in Queueing Theory, Methods, and Open Problems Jewgeni H. Dshalalow, 2023-07-21 The progress of science and technology has placed Queueing Theory among the most popular disciplines in applied mathematics operations research and engineering Although queueing has been on the scientific market since the beginning of this century it is still rapidly expanding by capturing new areas in technology *Advances in Queueing* provides a comprehensive overview of problems in this enormous area of science and focuses on the most significant methods recently developed Written by a team of 24 eminent scientists the book examines stochastic analytic and generic methods such as approximations estimates and bounds and simulation The first chapter presents an overview of classical queueing methods from the birth of queues to the seventies

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