

Springer Texts in Statistics

Richard Durrett

Essentials of Stochastic Processes

Third Edition

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Durrett Essentials Of Stochastic Processes

CL Gary



Durrett Essentials Of Stochastic Processes:

Essentials of Stochastic Processes Richard Durrett, 2012-05-19 This book is for a first course in stochastic processes taken by undergraduates or master's students who have had a course in probability theory. It covers Markov chains in discrete and continuous time, Poisson processes, renewal processes, martingales, and mathematical finance. One can only learn a subject by seeing it in action, so there are a large number of examples and more than 300 carefully chosen exercises to deepen the reader's understanding. The book has undergone a thorough revision since the first edition. There are many new examples and problems with solutions that use the TI 83 to eliminate the tedious details of solving linear equations by hand. Some material that was too advanced for the level has been eliminated, while the treatment of other topics useful for applications has been expanded. In addition, the ordering of topics has been improved. For example, the difficult subject of martingales is delayed until its usefulness can be seen in the treatment of mathematical finance. Richard Durrett received his Ph.D. in Operations Research from Stanford in 1976. He taught at the UCLA math department for nine years and at Cornell for twenty-five before moving to Duke in 2010. He is the author of 8 books and almost 200 journal articles and has supervised more than 40 Ph.D. students. Most of his current research concerns the applications of probability to biology, ecology, genetics, and most recently, cancer.

Essentials of Stochastic Processes Kiyosi Itô, 2006 **Essentials of Stochastic Processes** Kiyosi Itô, 2006 This book is an English translation of Kiyosi Ito's monograph published in Japanese in 1957. It gives a unified and comprehensive account of additive processes or Levy processes, stationary processes, and Markov processes, which constitute the three most important classes of stochastic processes. Written by one of the leading experts in the field, this volume presents to the reader lucid explanations of the fundamental concepts and basic results in each of these three major areas of the theory of stochastic processes. With the requirements limited to an introductory graduate course on analysis, especially measure theory and basic probability theory, this book is an excellent text for any graduate course on stochastic processes. Kiyosi Ito is famous throughout the world for his work on stochastic integrals, including the Ito formula, but he has made substantial contributions to other areas of probability theory as well, such as additive processes, stationary processes, and Markov processes, especially diffusion processes, which are topics covered in this book. For his contributions and achievements, he has received, among others, the Wolf Prize, the Japan Academy Prize, and the Kyoto Prize.

Essentials of Stochastic Processes Rick Durrett, 1999 This book covers Markov Chains in discrete and continuous time, Poisson processes, renewal theory, Brownian motion, and Martingales. **Understanding Markov Chains** Nicolas Privault, 2018-08-03 This book provides an undergraduate-level introduction to discrete and continuous-time Markov chains and their applications, with a particular focus on the first-step analysis technique and its applications to average hitting times and ruin probabilities. It also discusses classical topics such as recurrence and transience, stationary and limiting distributions, as well as branching processes. It first examines in detail two important examples: gambling processes and random walks, before presenting the

general theory itself in the subsequent chapters It also provides an introduction to discrete time martingales and their relation to ruin probabilities and mean exit times together with a chapter on spatial Poisson processes The concepts presented are illustrated by examples 138 exercises and 9 problems with their solutions **Using the Mathematics**

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Henrik Jeldtoft Jensen,2022-11-17 This introductory textbook provides detailed coverage of the rapidly growing field of complexity science and accommodates readers from a wide variety of backgrounds and with varying levels of mathematical skill The book contains a broad range of end of chapter problems and extended projects with solutions available to instructors online

Active Particles, Volume 2 Nicola Bellomo,Pierre Degond,Eitan Tadmor,2019-08-22 This volume compiles eight recent surveys that present state of the art results in the field of active matter at different scales modeled by agent based kinetic and hydrodynamic descriptions Following the previously published volume these chapters were written by leading experts in the field and accurately reflect the diversity of subject matter in theory and applications Several mathematical tools are employed throughout the volume including analysis of nonlinear PDEs network theory mean field approximations control theory and flocking analysis The book also covers a wide range of applications including Biological network formation Social systems Control theory of sparse systems Dynamics of swarming and flocking systems Stochastic particles and mean field approximations Mathematicians and other members of the scientific community interested in active matter and its many applications will find this volume to be a timely authoritative and valuable resource **Food and Nutrition**

Paul Fieldhouse, **Basics of Applied Stochastic Processes** Richard Serfozo,2009-01-24 Stochastic processes are

mathematical models of random phenomena that evolve according to prescribed dynamics Processes commonly used in applications are Markov chains in discrete and continuous time renewal and regenerative processes Poisson processes and Brownian motion This volume gives an in depth description of the structure and basic properties of these stochastic processes A main focus is on equilibrium distributions strong laws of large numbers and ordinary and functional central limit theorems for cost and performance parameters Although these results differ for various processes they have a common trait of being limit theorems for processes with regenerative increments Extensive examples and exercises show how to formulate stochastic models of systems as functions of a system s data and dynamics and how to represent and analyze cost and performance measures Topics include stochastic networks spatial and space time Poisson processes queueing reversible processes simulation Brownian approximations and varied Markovian models The technical level of the volume is between that of introductory texts that focus on highlights of applied stochastic processes and advanced texts that focus on theoretical aspects of processes

Probability and Stochastic Processes Roy D. Yates, David J. Goodman, 2005 This user friendly resource will help you grasp the concepts of probability and stochastic processes so you can apply them in professional engineering practice The book presents concepts clearly as a sequence of building blocks that are identified either as an axiom definition or theorem This approach provides a better understanding of the material which can be used to solve practical problems Key Features The text follows a single model that begins with an experiment consisting of a procedure and observations The mathematics of discrete random variables appears separately from the mathematics of continuous random variables Stochastic processes are introduced in Chapter 6 immediately after the presentation of discrete and continuous random variables Subsequent material including central limit theorem approximations laws of large numbers and statistical inference then use examples that reinforce stochastic process concepts An abundance of exercises are provided that help students learn how to put the theory to use

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