

Solutions to Durrett's Probability: Theory and Examples

Lumiao

1 Martingales

1.1 Martingales, Almost Sure Convergence

Problem 1.1.1 X_n is a martingale w.r.t. $\mathcal{G}_n$ and let $\mathcal{F}_n = \sigma(X_1, \dots, X_n)$. Then $\mathcal{G}_n \supseteq \mathcal{F}_n$ and X_n is a martingale w.r.t. $\mathcal{F}_n$.

Proof Note that $\sigma(X_m) \subseteq \mathcal{G}_m \subseteq \mathcal{G}_n$ if $m \leq n$. Thus:

$$\mathcal{F}_n = \sigma(X_1, \dots, X_n) = \sigma\left(\bigcup_{k=1}^n \sigma(X_k)\right) \subseteq \mathcal{G}_n$$

Obviously $X_n \in \mathcal{F}_n$ and is integrable. Also, using the property of conditional expectation:

$$\mathbb{E}[X_{n+1}|\mathcal{F}_n] = \mathbb{E}[\mathbb{E}[X_{n+1}|\mathcal{G}_n]|\mathcal{F}_n] = \mathbb{E}[X_n|\mathcal{F}_n] = X_n, \quad \forall n \geq 1$$

Thus $(X_n)_{n \geq 1}$ is a martingale w.r.t. $\mathcal{F}_n$. □

Problem 1.1.2 Give an example of a submartingale X_n so that X_n^2 is a supermartingale. Hint: X_n does not have to be random.

Proof Let $X_n = -\frac{1}{n}$. □

Problem 1.1.3 Generalize (i) of **Theorem 4.2.7** by showing that if X_n and Y_n are submartingales w.r.t. $\mathcal{F}_n$ then $X_n \vee Y_n$ is also.

Proof Obviously $X_n \vee Y_n \in \mathcal{F}_n$ and is integrable. By the definition of submartingale:

$$\mathbb{E}[X_{n+1} \vee Y_{n+1}|\mathcal{F}_n] \geq \mathbb{E}[X_{n+1}|\mathcal{F}_n] \geq X_n$$

$$\mathbb{E}[X_{n+1} \vee Y_{n+1}|\mathcal{F}_n] \geq \mathbb{E}[Y_{n+1}|\mathcal{F}_n] \geq Y_n$$

Thus $\mathbb{E}[X_{n+1} \vee Y_{n+1}|\mathcal{F}_n] \geq X_n \vee Y_n$, which proves the result. □

Problem 1.1.4 Let X_n , $n \geq 0$, be a submartingale with $\sup X_n < \infty$. Let $\xi_n = X_n - X_{n-1}$ and suppose $\mathbb{E}[\sup \xi_n^+] < +\infty$. Show that X_n converges a.s.

Proof Consider the stopping time $N_M = \inf\{n \geq 0 : X_n \geq M\}$ for $M \in \mathbb{N}$. $X_{N_M \wedge n}$ is a submartingale. Notice that $X_{N_M \wedge n}^+ \leq M + \sup \xi_n^+$, we have:

$$\mathbb{E}[X_{N_M \wedge n}^+] \leq M + \mathbb{E}[\sup \xi_n^+] < +\infty$$

By **Theorem 4.2.11**, $X_{N_M \wedge n}$ converges to a limit a.s. Thus for each M , X_n converges a.s. to a limit on $\{N_M = \infty\}$. Since $\sup X_n < +\infty$, $\Omega = \bigcup_{M=1}^{\infty} \{N_M = \infty\}$, which means that X_n converges almost surely on the whole Ω . □

Problem 1.1.5 Give an example of a martingale X_n with $X_n \rightarrow -\infty$ a.s. Hint: Let $X_n = \xi_1 + \dots + \xi_n$, where the ξ_i are independent (but not identically distributed) with $\mathbb{E}[\xi_n] = 0$.

Durrett Probability Theory And Examples Solutions

Richard Durrett



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Solutions Manual for Probability Richard Durrett,1996 *Non-autonomous Kato Classes and Feynman-Kac Propagators* Archil Gulisashvili,J. A. van Casteren,2006 This book provides an introduction to propagator theory Propagators or evolution families are two parameter analogues of semigroups of operators Propagators are encountered in analysis mathematical physics partial differential equations and probability theory They are often used as mathematical models of systems evolving in a changing environment A unifying theme of the book is the theory of Feynman Kac propagators associated with time dependent measures from non autonomous Kato classes In applications a Feynman Kac propagator describes the evolution of a physical system in the presence of time dependent absorption and excitation The book is suitable as an advanced textbook for graduate courses Readership Graduate students and researchers in mathematical analysis partial differential equations and probability theory **BOOK JACKET** **Hamilton-Jacobi Equations, Viscosity Solutions and Asymptotics of Hamiltonian Systems** Diogo Aguiar Gomes,2000 *A Course on Tug-of-War Games with Random Noise* Marta Lewicka,2020-06-19 This graduate textbook provides a detailed introduction to the probabilistic interpretation of nonlinear potential theory relying on the recently introduced notion of tug of war games with noise The book explores both basic and more advanced constructions carefully explaining the parallel between linear and nonlinear cases The presentation is self contained with many exercises making the book suitable as a textbook for a graduate course as well as for self study Extensive background and auxiliary material allow the tailoring of courses to individual student levels **Modelling Economic Capital** David Jamieson Bolder,2022-05-06 How might one determine if a financial institution is taking risk in a balanced and productive manner A powerful tool to address this question is economic capital which is a model based measure of the amount of equity that an entity must hold to satisfactorily offset its risk generating activities This book with a particular focus on the credit risk dimension pragmatically explores real world economic capital methodologies and applications It begins with the thorny practical issues surrounding the construction of an industrial strength credit risk economic capital model defensibly determining its parameters and ensuring its efficient implementation It then broadens its gaze to examine various critical applications and extensions of economic capital these include loan pricing the computation of loan impairments and stress testing Along the way typically working from first principles various possible modelling choices and related concepts are examined The end result is a useful reference for students and practitioners wishing to learn more about a centrally important financial management device *An Introduction to Fronts in Random Media* Jack Xin,2009-06-17 This book aims to give a user friendly tutorial of an interdisciplinary research topic fronts or interfaces in random media to senior undergraduates and beginning graduate students with basic knowledge of partial differential equations PDE and probability The approach taken is semiformal using elementary methods to introduce ideas and motivate results as much as possible then outlining how to pursue rigorous theorems with details to be found in the references section

Since the topic concerns both differential equations and probability and probability is traditionally a quite technical subject with a heavy measure theoretic component the book strives to develop a simplistic approach so that students can grasp the essentials of fronts and random media and their applications in a self contained tutorial The book introduces three fundamental PDEs the Burgers equation Hamilton Jacobi equations and reaction diffusion equations analysis of their formulas and front solutions and related stochastic processes It builds up tools gradually so that students are brought to the frontiers of research at a steady pace A moderate number of exercises are provided to consolidate the concepts and ideas The main methods are representation formulas of solutions Laplace methods homogenization ergodic theory central limit theorems large deviation principles variational principles maximum principles and Harnack inequalities among others These methods are normally covered in separate books on either differential equations or probability It is my hope that this tutorial will help to illustrate how to combine these tools in solving concrete problems *Statistics Catalog 2005* Neil

Thomson, 2004-09 *Directed Polymers in Random Environments* Francis Comets, 2017-01-26 Analyzing the phase transition from diffusive to localized behavior in a model of directed polymers in a random environment this volume places particular emphasis on the localization phenomenon The main question is What does the path of a random walk look like if rewards and penalties are spatially randomly distributed This model which provides a simplified version of stretched elastic chains pinned by random impurities has attracted much research activity but it and its relatives still holds many secrets especially in high dimensions It has non gaussian scaling limits and it belongs to the so called KPZ universality class when the space is one dimensional Adopting a Gibbsian approach using general and powerful tools from probability theory the discrete model is studied in full generality Presenting the state of the art from different perspectives and written in the form of a first course on the subject this monograph is aimed at researchers in probability or statistical physics but is also accessible to masters and Ph D students **Particle Systems and Reaction-diffusion Equations** Richard Durrett, C. Neuhauser, 1992

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Table of Contents Durrett Probability Theory And Examples Solutions

1. Understanding the eBook Durrett Probability Theory And Examples Solutions
 - The Rise of Digital Reading Durrett Probability Theory And Examples Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Durrett Probability Theory And Examples Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Durrett Probability Theory And Examples Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Durrett Probability Theory And Examples Solutions
 - Personalized Recommendations
 - Durrett Probability Theory And Examples Solutions User Reviews and Ratings
 - Durrett Probability Theory And Examples Solutions and Bestseller Lists
5. Accessing Durrett Probability Theory And Examples Solutions Free and Paid eBooks
 - Durrett Probability Theory And Examples Solutions Public Domain eBooks
 - Durrett Probability Theory And Examples Solutions eBook Subscription Services
 - Durrett Probability Theory And Examples Solutions Budget-Friendly Options
6. Navigating Durrett Probability Theory And Examples Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Durrett Probability Theory And Examples Solutions Compatibility with Devices
 - Durrett Probability Theory And Examples Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Durrett Probability Theory And Examples Solutions
 - Highlighting and Note-Taking Durrett Probability Theory And Examples Solutions
 - Interactive Elements Durrett Probability Theory And Examples Solutions
8. Staying Engaged with Durrett Probability Theory And Examples Solutions

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Durrett Probability Theory And Examples Solutions
- 9. Balancing eBooks and Physical Books Durrett Probability Theory And Examples Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Durrett Probability Theory And Examples Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Durrett Probability Theory And Examples Solutions
 - Setting Reading Goals Durrett Probability Theory And Examples Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Durrett Probability Theory And Examples Solutions
 - Fact-Checking eBook Content of Durrett Probability Theory And Examples Solutions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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