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 $\mathcal{F}_n = \sigma(X_1, \cdots, X_n)$. 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:

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

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 $X_n \to -\infty$ a.s. Hint: Let $X_n = \xi_1 + \cdots + \xi_n$, where the ξ_i are independent (but not identically distributed) with $\mathbb{E}[\xi_n] = 0$.

Durrett Probability Theory And Examples Solutions

Richard Durrett

Durrett Probability Theory And Examples Solutions:

  Solutions Manual for Probability Richard Durrett,1996   **Probability** Rick Durrett,2010-08-30 This classic introduction to probability theory for beginning graduate students covers laws of large numbers central limit theorems random walks martingales Markov chains ergodic theorems and Brownian motion It is a comprehensive treatment concentrating on the results that are the most useful for applications Its philosophy is that the best way to learn probability is to see it in action so there are 200 examples and 450 problems The fourth edition begins with a short chapter on measure theory to orient readers new to the subject   **Probability Theory II** Andrea Pascucci,2024-09-02 This book offers a modern approach to the theory of continuous time stochastic processes and stochastic calculus The content is treated rigorously comprehensively and independently In the first part the theory of Markov processes and martingales is introduced with a focus on Brownian motion and the Poisson process Subsequently the theory of stochastic integration for continuous semimartingales was developed A substantial portion is dedicated to stochastic differential equations the main results of solvability and uniqueness in weak and strong sense linear stochastic equations and their relation to deterministic partial differential equations Each chapter is accompanied by numerous examples This text stems from over twenty years of teaching experience in stochastic processes and calculus within master s degrees in mathematics quantitative finance and postgraduate courses in mathematics for applications and mathematical finance at the University of Bologna The book provides material for at least two semester long courses in scientific studies Mathematics Physics Engineering Statistics Economics etc and aims to provide a solid background for those interested in the development of stochastic calculus theory and its applications This text completes the journey started with the first volume of Probability Theory I Random Variables and Distributions through a selection of advanced classic topics in stochastic analysis   Probability and Statistics by Example: Volume 1, Basic Probability and Statistics Yu. M. Suhov,Mark Kelbert,2005-10-13 Probability and Statistics are as much about intuition and problem solving as they are about theorem proving Because of this students can find it very difficult to make a successful transition from lectures to examinations to practice since the problems involved can vary so much in nature Since the subject is critical in many modern applications such as mathematical finance quantitative management telecommunications signal processing bioinformatics as well as traditional ones such as insurance social science and engineering the authors have rectified deficiencies in traditional lecture based methods by collecting together a wealth of exercises for which they have supplied complete solutions These solutions are adapted to needs and skills of students To make it of broad value the authors supply basic mathematical facts as and when they are needed and have sprinkled some historical information throughout the text   **Probability** Richard Durrett,Rick Durrett,2019-04-18 A well written and lively introduction to measure theoretic probability for graduate students and researchers   **The Theory of Hash Functions and Random Oracles** Arno Mittelbach,Marc Fischlin,2021-01-19 Hash functions are the cryptographer s Swiss Army knife Even though they play an

integral part in today s cryptography existing textbooks discuss hash functions only in passing and instead often put an emphasis on other primitives like encryption schemes In this book the authors take a different approach and place hash functions at the center The result is not only an introduction to the theory of hash functions and the random oracle model but a comprehensive introduction to modern cryptography After motivating their unique approach in the first chapter the authors introduce the concepts from computability theory probability theory information theory complexity theory and information theoretic security that are required to understand the book content In Part I they introduce the foundations of hash functions and modern cryptography They cover a number of schemes concepts and proof techniques including computational security one way functions pseudorandomness and pseudorandom functions game based proofs message authentication codes encryption schemes signature schemes and collision resistant hash functions In Part II the authors explain the random oracle model proof techniques used with random oracles random oracle constructions and examples of real world random oracle schemes They also address the limitations of random oracles and the random oracle controversy the fact that uninstantiable schemes exist which are provably secure in the random oracle model but which become insecure with any real world hash function Finally in Part III the authors focus on constructions of hash functions This includes a treatment of iterative hash functions and generic attacks against hash functions constructions of hash functions based on block ciphers and number theoretic assumptions a discussion of privately keyed hash functions including a full security proof for HMAC and a presentation of real world hash functions The text is supported with exercises notes references and pointers to further reading and it is a suitable textbook for undergraduate and graduate students and researchers of cryptology and information security   **Problems In Probability (2nd Edition)** Terry M Mills,2013-10-22 This is a book of problems in probability and their solutions The work has been written for undergraduate students who have a background in calculus and wish to study probability Probability theory is a key part of contemporary mathematics The subject plays a key role in the insurance industry modelling financial markets and statistics in general including all those fields of endeavour to which statistics is applied e g health physical sciences engineering economics social sciences Every student majoring in mathematics at university ought to take a course on probability or mathematical statistics Probability is now a standard part of high school mathematics and teachers ought to be well versed and confident in the subject Problem solving is important in mathematics This book combines problem solving and probability   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

Problems In Probability Terry M Mills,2001-11-19 Probability theory is an important part of contemporary mathematics It plays a key role in the insurance industry in the modelling of financial markets and in statistics generally including all those fields of endeavour to which statistics is applied e g health physical sciences engineering economics The 20th century has been an important period for the subject because we have witnessed the development of a solid mathematical basis for the study of probability especially from the Russian school of probability under the leadership of A N Kolmogorov We have also seen many new applications of probability from applications of stochastic calculus in the financial industry to Internet gambling At the beginning of the 21st century the subject offers plenty of scope for theoretical developments modern applications and computational problems There is something for everyone in probability The notes and problems in this book have been designed to provide a basis for a series of lectures suitable for advanced undergraduate students on the subject of probability Through problem solving students can experience the excitement associated with probability This activity will help them to develop their problem solving skills which are so valuable in today s world The problems in the book will introduce the student to some famous works and workers in probability and convey the historical classical and contemporary aspects of probability A key feature of the book is that many problems are in fact small guided research projects The research work involved in solving the problems will enhance the student s library research skills

Counterexamples in Probability Jordan M. Stoyanov,2014-01-15 While most mathematical examples illustrate the truth of a statement counterexamples demonstrate a statement s falsity Enjoyable topics of study counterexamples are valuable tools for teaching and learning The definitive book on the subject in regards to probability this third edition features the author s revisions and corrections plus a substantial new appendix 2013 edition *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 grad uate students with basic knowledge of partial differential equations PDE and prob ability The approach taken is semiformal using elementary methods to introduce ideas and motivate results as much as possible then outlining how to pursue rigor ous theorems with details to be found in the references section Since the topic concerns both differential equations and probability and proba bility is traditionally a quite technical subject with a heavy measure theoretic com ponent 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 meth ods homogenization ergodic theory central limit theorems large deviation princi ples 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 **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 **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 *Stochastic Processes: Theory and Methods* D N Shanbhag,Calyampudi Radhakrishna Rao,2001 This volume in the series contains chapters on areas such as pareto processes branching processes inference in stochastic processes Poisson approximation Levy processes and iterated random maps and some classes of Markov processes Other chapters cover random walk and fluctuation theory a semigroup representation and asymptomatic behavior of certain statistics of the Fisher Wright Moran coalescent continuous time ARMA processes record sequence and their applications stochastic networks with product form equilibrium and stochastic processes in insurance and finance Other subjects include renewal theory stochastic processes in reliability supports of stochastic processes of multiplicity one Markov chains diffusion processes and Ito s stochastic calculus and its applications c Book News Inc **Hamilton-Jacobi Equations, Viscosity Solutions and Asymptotics of Hamiltonian Systems** Diogo Aguiar Gomes,2000 *Conceptual Modelling and Its Theoretical Foundations* Antje Düsterhöft,Meike Klettke,Klaus-Dieter Schewe,2012-02-17 This Festschrift published in honor of Bernhard Thalheim on the occasion of his 60th birthday presents 20 articles by colleagues from all over the world with

whom Bernhard Thalheim had cooperation in various respects also included is a scientific biography contributed by the volume editors The 20 contributions reflect the breadth and the depth of the work of Bernhard Thalheim in conceptual modeling and database theory during his scientific career spanning more than 35 years of active research In particular ten articles are focusing on topics like database dependency theory object oriented databases triggers abstract state machines database and information systems design web semantics and business processes *Measure Theory and Fine Properties of Functions* Lawrence C. Evans,2025-03-04 This popular textbook provides a detailed examination of the central assertions of measure theory in n dimensional Euclidean space with emphasis upon the roles of Hausdorff measure and capacity in characterizing the fine properties of sets and functions Measure Theory and Fine Properties of Functions Second Edition includes many interesting items working mathematical analysts need to know but are rarely taught Topics covered include a review of abstract measure theory including Besicovitch s covering theorem Rademacher s theorem on the differentiability a e of Lipschitz continuous functions the area and coarea formulas the precise structure of Sobolev and BV functions the precise structure of sets of finite perimeter and Aleksandrov s theorem on the twice differentiability a e of convex functions The topics are carefully selected and the proofs are succinct but complete This book provides ideal reading for mathematicians and graduate students in pure and applied mathematics The authors assume readers are at least fairly conversant with both Lebesgue measure and abstract measure theory and the expository style reflects this expectation The book does not offer lengthy heuristics or motivation but as compensation presents all the technicalities of the proofs This new Second Edition has been updated to provide corrections and minor edits from the previous Revised Edition with countless improvements in notation format and clarity of exposition Also new is a section on the sub differentials of convex functions and in addition the bibliography has been updated Optimal Control of PDEs under Uncertainty Jesús Martínez-Frutos,Francisco Periago Esparza,2018-08-30 This book provides a direct and comprehensive introduction to theoretical and numerical concepts in the emerging field of optimal control of partial differential equations PDEs under uncertainty The main objective of the book is to offer graduate students and researchers a smooth transition from optimal control of deterministic PDEs to optimal control of random PDEs Coverage includes uncertainty modelling in control problems variational formulation of PDEs with random inputs robust and risk averse formulations of optimal control problems existence theory and numerical resolution methods The exposition focusses on the entire path starting from uncertainty modelling and ending in the practical implementation of numerical schemes for the numerical approximation of the considered problems To this end a selected number of illustrative examples are analysed in detail throughout the book Computer codes written in MatLab are provided for all these examples This book is adressed to graduate students and researches in Engineering Physics and Mathematics who are interested in optimal control and optimal design for random partial differential equations **Introduction to Stochastic Calculus with Applications** Fima C. Klebaner,1998 *Body*

of Knowledge for Modeling and Simulation Tuncer Ören,Bernard P. Zeigler,Andreas Tolk,2023-01-27 Commissioned by the Society for Modeling and Simulation International SCS this needed useful new Body of Knowledge BoK collects and organizes the common understanding of a wide collection of professionals and professional associations Modeling and simulation M S is a ubiquitous discipline that lays the computational foundation for real and virtual experimentation clearly stating boundaries and interactions of systems data and representations The field is well known too for its training support via simulations and simulators Indeed with computers increasingly influencing the activities of today s world M S is the third pillar of scientific understanding taking its place along with theory building and empirical observation This valuable new handbook provides intellectual support for all disciplines in analysis design and optimization It contributes increasingly to the growing number of computational disciplines addressing the broad variety of contributing as well as supported disciplines and application domains Further each of its sections provide numerous references for further information Highly comprehensive the BoK represents many viewpoints and facets captured under such topics as Mathematical and Systems Theory Foundations Simulation Formalisms and Paradigms Synergies with Systems Engineering and Artificial Intelligence Multidisciplinary Challenges Ethics and Philosophy Historical Perspectives Examining theoretical as well as practical challenges this unique volume addresses the many facets of M S for scholars students and practitioners As such it affords readers from all science engineering and arts disciplines a comprehensive and concise representation of concepts terms and activities needed to explain the M S discipline Tuncer ren is Professor Emeritus at the University of Ottawa Bernard Zeigler is Professor Emeritus at the University of Arizona Andreas Tolk is Chief Scientist at The MITRE Corporation All three editors are long time members and Fellows of the Society for Modeling and Simulation International Under the leadership of three SCS Fellows Dr ren University of Ottawa Dr Zeigler The University of Arizona and Dr Tolk The MITRE Corporation more than 50 international scholars from 15 countries provided insights and experience to compile this initial M S Body of Knowledge

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