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background in measure theory can skip Sections 1.4, 1.5, and 1.7, which were previously part of the appendix. 1.1 Probability Spaces Here and throughout the book, terms being defined are set in boldface. We begin with the most basic quantity. A probability space is a triple  $(\Omega, \mathcal{F}, P)$  where  $\Omega$  is a set of “outcomes,”  $\mathcal{F}$  is a set of “events ...

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Example 1.1.1. Discrete probability spaces. Let  $\Omega$  = a countable set, i.e., finite or countably infinite. Let  $\mathcal{F}$  = the set of all subsets of  $\Omega$ . Let  $P(A) = \sum_{\omega \in A} p(\omega)$  where  $p(\omega) \geq 0$  and  $\sum_{\omega \in \Omega} p(\omega) = 1$ . A...

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R. Durrett Probability: Theory and Examples (4th edition) is the required text, and the single most relevant text for the whole year's course. The style is deliberately concise. Quite a few of the homework problems are from there, P. Billingsley Probability and Measure (3rd Edition).

STAT 205A Home Page

I am a grad student in probability at UW-Madison, and Durrett's book is always used for our graduate probability sequence. Every probability student here has an intimate knowledge of this book and so it is our Bible of probability theory. And just like the Bible it is often interpreted and rarely understood.

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This book is an introduction to probability theory covering 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.

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.

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Building upon the previous editions, this textbook is a first course in stochastic processes taken by undergraduate and graduate students (MS and PhD students from math, statistics, economics, computer science, engineering, and finance departments) who have had a course in probability theory. It covers Markov chains in discrete and continuous time, Poisson processes, renewal processes, martingales, and option pricing. 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. Drawing from teaching experience and student feedback, there are many new examples and problems with solutions that use TI-83 to eliminate the tedious details of solving linear equations by hand, and the collection of exercises is much improved, with many more biological examples. Originally included in previous editions, material too advanced for this first course in stochastic processes has been eliminated while 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 applied in the treatment of mathematical finance.

The theory of random graphs began in the late 1950s in several papers by Erdos and Renyi. In



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the late twentieth century, the notion of six degrees of separation, meaning that any two people on the planet can be connected by a short chain of people who know each other, inspired Strogatz and Watts to define the small world random graph in which each site is connected to  $k$  close neighbors, but also has long-range connections. At a similar time, it was observed in human social and sexual networks and on the Internet that the number of neighbors of an individual or computer has a power law distribution. This inspired Barabasi and Albert to define the preferential attachment model, which has these properties. These two papers have led to an explosion of research. The purpose of this book is to use a wide variety of mathematical argument to obtain insights into the properties of these graphs. A unique feature is the interest in the dynamics of process taking place on the graph in addition to their geometric properties, such as connectedness and diameter.

Many probability books are written by mathematicians and have the built in bias that the reader is assumed to be a mathematician coming to the material for its beauty. This textbook is geared towards beginning graduate students from a variety of disciplines whose primary focus is not necessarily mathematics for its own sake. Instead, *A Probability Path* is designed for those requiring a deep understanding of advanced probability for their research in statistics, applied probability, biology, operations research, mathematical finance, and engineering.

Features an introduction to probability theory using measure theory. This work provides proofs of the essential introductory results and presents the measure theory and

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mathematical details in terms of intuitive probabilistic concepts, rather than as separate, imposing subjects.

This textbook on the theory of probability starts from the premise that rather than being a purely mathematical discipline, probability theory is an intimate companion of statistics. The book starts with the basic tools, and goes on to cover a number of subjects in detail, including chapters on inequalities, characteristic functions and convergence. This is followed by explanations of the three main subjects in probability: the law of large numbers, the central limit theorem, and the law of the iterated logarithm. After a discussion of generalizations and extensions, the book concludes with an extensive chapter on martingales.

"What underlying forces are responsible for the observed patterns of variability, given a collection of DNA sequences?" In approaching this question a number of probability models are introduced and analyzed. Throughout the book, the theory is developed in close connection with data from more than 60 experimental studies that illustrate the use of these results.

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