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JIM PITMAN



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Probability Springer Texts In Statistics:

Probability: A Graduate Course Allan Gut, 2006-03-16 I know it's trivial but I have forgotten why This is a slightly exaggerated characterization of the unfortunate attitude of many mathematicians toward the surrounding world The point of departure of this book is the opposite This textbook on the theory of probability is aimed at graduate students with the ideology 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 chapters on inequalities characteristic functions convergence followed by the three main subjects 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 The main feature of this book is the combination of rigor and detail Instead of being sketchy and leaving lots of technicalities to be filled in by the reader or as easy exercises a more solid foundation is obtained by providing more of those not so trivial matters and by integrating some of those not so simple exercises and problems into the body of text Some results have been given more than one proof in order to illustrate the pros and cons of different approaches On occasion we invite the reader to minor extensions for which the proofs reduce to minor modifications of existing ones with the aim of creating an atmosphere of a dialogue with the reader instead of the more typical monologue in order to put the reader in the position to approach any other text for which a solid probabilistic foundation is necessary Allan Gut is a professor of Mathematical Statistics at Uppsala University Uppsala Sweden He is the author of the Springer monograph *Stopped Random Walks* 1988 the Springer textbook *An Intermediate Course in Probability* 1995 and has published around 60 articles in probability theory His interest in attracting a more general audience to the beautiful world of probability has been manifested in his Swedish popular science book *Sant eller Sannolikt True or Probable* Norstedts förlag 2002 From the reviews This is more substantial than the usual graduate course in probability it contains many useful and interesting details that previously were scattered around the literature and gives clear evidence that the writer has a great deal of experience in the area Short Book Reviews of the International Statistical Institute December 2005 This book is a readable comprehensive and up to date introductory textbook to probability theory with emphasis on limit theorems for sums and extremes of random variables The purchase is worth its price Journal of the American Statistical Association June 2006

A Modern Introduction to Probability and Statistics F.M. Dekking, 2005-06-15 Suitable for self study Use real examples and real data sets that will be familiar to the audience Introduction to the bootstrap is included this is a modern method missing in many other books

Probability Alan F. Karr, 2012-12-06 This book is a text at the introductory graduate level for use in the one semester or two quarter probability course for first year graduate students that seems ubiquitous in departments of statistics biostatistics mathematical sciences applied mathematics and mathematics While it is accessible to advanced mathematically mature undergraduates it could also serve with supplementation for a course on measure theoretic probability Students who master

this text should be able to read the hard books on probability with relative ease and to proceed to further study in statistics or stochastic processes This is a book to teach from It is not encyclopedic and may not be suitable for all reference purposes Pascal once apologized to a correspondent for having written a long letter saying that he hadn't the time to write a short one I have tried to write a short book which is quite deliberately incomplete globally and locally Many topics including at least one of everyone's favorites are omitted among them infinite divisibility interchangeability large deviations ergodic theory and the Markov property These can be supplied at the discretion and taste of instructors and students or to suit particular interests

Probability Jim Pitman, 1999-05-21 Preface to the Instructor This is a text for a one quarter or one semester course in probability aimed at students who have done a year of calculus The book is organized so a student can learn the fundamental ideas of probability from the first three chapters without reliance on calculus Later chapters develop these ideas further using calculus tools The book contains more than the usual number of examples worked out in detail It is not possible to go through all these examples in class Rather I suggest that you deal quickly with the main points of theory then spend class time on problems from the exercises or your own favorite problems The most valuable thing for students to learn from a course like this is how to pick up a probability problem in a new setting and relate it to the standard body of theory The more they see this happen in class and the more they do it themselves in exercises the better The style of the text is deliberately informal My experience is that students learn more from intuitive explanations diagrams and examples than they do from theorems and proofs So the emphasis is on problem solving rather than theory

An Intermediate Course in Probability

Allan Gut, 2009-06-06 The purpose of this book is to provide the reader with a solid background and understanding of the basic results and methods in probability theory before entering into more advanced courses in probability and or statistics The presentation is fairly thorough and detailed with many solved examples Several examples are solved with different methods in order to illustrate their different levels of sophistication their pros and their cons The motivation for this style of exposition is that experience has proved that the hard part in courses of this kind usually is the application of the results and methods to know how when and where to apply what and then technically to solve a given problem once one knows how to proceed Exercises are spread out along the way and every chapter ends with a large selection of problems Chapters 1 through 6 focus on some central areas of what might be called pure probability theory multivariate random variables conditioning transforms order statistics the multivariate normal distribution and convergence

Probability Theory Yuan

Shih Chow, Henry Teicher, 2003-10-17 Comprising the major theorems of probability theory and the measure theoretical foundations of the subject the main topics treated here are independence interchangeability and martingales Particular emphasis is placed upon stopping times both as tools in proving theorems and as objects of interest themselves No prior knowledge of measure theory is assumed and a unique feature of the book is the combined presentation of measure and probability It is easily adapted for graduate students familiar with measure theory using the guidelines given Special features

include A comprehensive treatment of the law of the iterated logarithm The Marcinkiewicz Zygmund inequality its extension to martingales and applications thereof Development and applications of the second moment analogue of Walds equation Limit theorems for martingale arrays the central limit theorem for the interchangeable and martingale cases moment convergence in the central limit theorem Complete discussion including central limit theorem of the random casting of r balls into n cells Recent martingale inequalities Cramér-Lévy theorem and factor closed families of distributions [Probability and Statistical Inference](#) J.G. Kalbfleisch, 2012-09-27 A carefully written text suitable as an introductory course for second or third year students The main scope of the text guides students towards a critical understanding and handling of data sets together with the ensuing testing of hypotheses This approach distinguishes it from many other texts using statistical decision theory as their underlying philosophy This volume covers concepts from probability theory backed by numerous problems with selected answers [Fundamentals of Probability: A First Course](#) Anirban DasGupta, 2010-04-02 Probability theory is one branch of mathematics that is simultaneously deep and immediately applicable in diverse areas of human endeavor It is as fundamental as calculus Calculus explains the external world and probability theory helps predict a lot of it In addition problems in probability theory have an innate appeal and the answers are often structured and strikingly beautiful A solid background in probability theory and probability models will become increasingly more useful in the twenty first century as difficult new problems emerge that will require more sophisticated models and analysis This is a text on the fundamentals of the theory of probability at an undergraduate or first year graduate level for students in science engineering and economics The only mathematical background required is knowledge of univariate and multivariate calculus and basic linear algebra The book covers all of the standard topics in basic probability such as combinatorial probability discrete and continuous distributions moment generating functions fundamental probability inequalities the central limit theorem and joint and conditional distributions of discrete and continuous random variables But it also has some unique features and a forward looking feel [*Fundamentals of Mathematical Statistics*](#) Hung T. Nguyen, Gerald S. Rogers, 1989-07-25 This is the first half of a text for a two semester course in mathematical statistics at the senior graduate level for those who need a strong background in statistics as an essential tool in their career To study this text the reader needs a thorough familiarity with calculus including such things as Jacobians and series but somewhat less intense familiarity with matrices including quadratic forms and eigenvalues For convenience these lecture notes were divided into two parts Volume I Probability for Statistics for the first semester and Volume II Statistical Inference for the second We suggest that the following distinguish this text from other introductions to mathematical statistics 1 The most obvious thing is the layout We have designed each lesson for the US 50 minute class those who study independently probably need the traditional three hours for each lesson Since we have more than the US again 90 lessons some choices have to be made In the table of contents we have used a to designate those lessons which are interesting but not essential and may be omitted from a general course some

exercises and proofs in other lessons are also included. We have made lessons of some material which other writers might stuff into appendices. Incorporating this freedom of choice has led to some redundancy mostly in definitions which may be beneficial.

Probability via Expectation Peter Whittle, 2012-12-06

The third edition of 1992 constituted a major reworking of the original text and the preface to that edition still represents my position on the issues that stimulated me first to write. The present edition contains a number of minor modifications and corrections but its principal innovation is the addition of material on dynamic programming, optimal allocation, option pricing and large deviations. These are substantial topics but ones into which one can gain an insight with less labour than is generally thought. They all involve the expectation concept in an essential fashion even the treatment of option pricing which seems initially to forswear expectation in favour of an arbitrage criterion. I am grateful to readers and to Springer Verlag for their continuing interest in the approach taken in this work.

Peter Whittle, Preface to the Third Edition

This book is a complete revision of the earlier work *Probability* which appeared in 1970. While revised so radically and incorporating so much new material as to amount to a new text, it preserves both the aim and the approach of the original. That aim was stated as the provision of a first text in probability demanding a reasonable but not extensive knowledge of mathematics and taking the reader to what one might describe as a good intermediate level. In doing so it attempted to break away from stereotyped applications and consider applications of a more novel and significant character.

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