

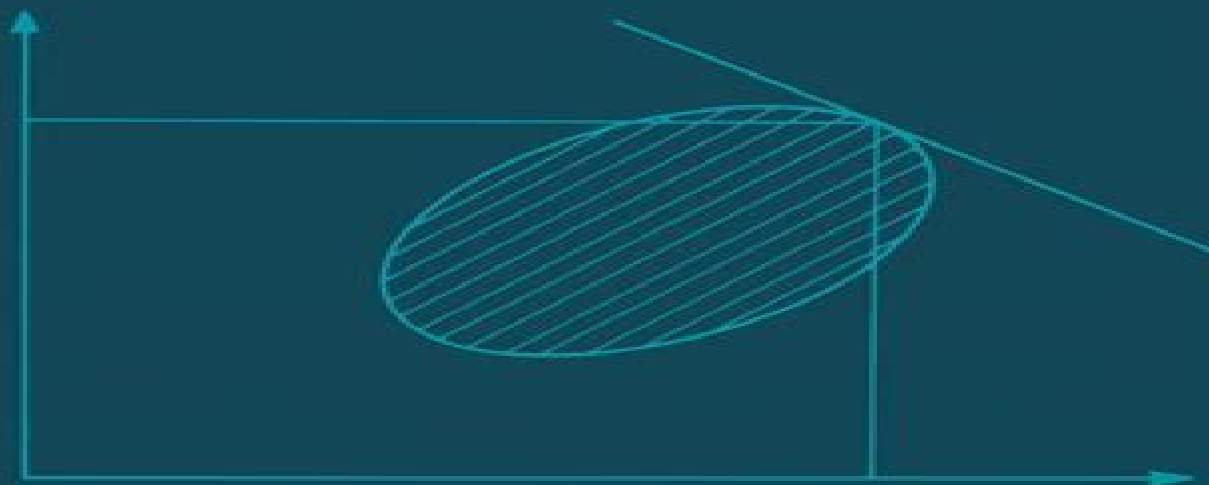


SPRINGER TEXTS IN STATISTICS

Peter Whittle

# Probability via Expectation

Third Edition



Springer-Verlag

# Probability Via Expectation

**P. C. G. Vassiliou**



## **Probability Via Expectation:**

*Probability via Expectation* Peter Whittle, 2000-04-20 This book has exerted a continuing appeal since its original publication in 1970 It develops the theory of probability from axioms on the expectation functional rather than on probability measure demonstrates that the standard theory unrolls more naturally and economically this way and that applications of real interest can be addressed almost immediately A secondary aim of the original text was to introduce fresh examples and convincing applications and that aim is continued in this edition a general revision plus the addition of chapters giving an economical introduction to dynamic programming that is then applied to the allocation problems represented by portfolio selection and the multi armed bandit The investment theme is continued with a critical investigation of the concept of risk free trading and the associated Black Sholes formula while another new chapter develops the basic ideas of large deviations The book may be seen as an introduction to probability for students with a basic mathematical facility covering the standard material but different in that it is unified by its theme and covers an unusual range of modern applications *Probability via expectation* Peter Whittle, 2000 Non-Homogeneous Markov Chains and Systems P.-C.G. Vassiliou, 2022-12-21 Non

Homogeneous Markov Chains and Systems Theory and Applications fulfills two principal goals It is devoted to the study of non homogeneous Markov chains in the first part and to the evolution of the theory and applications of non homogeneous Markov systems populations in the second The book is self contained requiring a moderate background in basic probability theory and linear algebra common to most undergraduate programs in mathematics statistics and applied probability There are some advanced parts which need measure theory and other advanced mathematics but the readers are alerted to these so they may focus on the basic results Features A broad and accessible overview of non homogeneous Markov chains and systems Fills a significant gap in the current literature A good balance of theory and applications with advanced mathematical details separated from the main results Many illustrative examples of potential applications from a variety of fields Suitable for use as a course text for postgraduate students of applied probability or for self study Potential applications included could lead to other quantitative areas The book is primarily aimed at postgraduate students researchers and practitioners in applied probability and statistics and the presentation has been planned and structured in a way to provide flexibility in topic selection so that the text can be adapted to meet the demands of different course outlines The text could be used to teach a course to students studying applied probability at a postgraduate level or for self study It includes many illustrative examples of potential applications in order to be useful to researchers from a variety of fields **Optimization**

**Under Uncertainty with Applications to Aerospace Engineering** Massimiliano Vasile, 2021-02-15 In an expanding world with limited resources optimization and uncertainty quantification have become a necessity when handling complex systems and processes This book provides the foundational material necessary for those who wish to embark on advanced research at the limits of computability collecting together lecture material from leading experts across the topics of optimization

uncertainty quantification and aerospace engineering The aerospace sector in particular has stringent performance requirements on highly complex systems for which solutions are expected to be optimal and reliable at the same time The text covers a wide range of techniques and methods from polynomial chaos expansions for uncertainty quantification to Bayesian and Imprecise Probability theories and from Markov chains to surrogate models based on Gaussian processes The book will serve as a valuable tool for practitioners researchers and PhD students

**Introductory Statistical Inference with the Likelihood Function** Charles A. Rohde, 2014-10-31 This textbook covers the fundamentals of statistical inference and statistical theory including Bayesian and frequentist approaches and methodology possible without excessive emphasis on the underlying mathematics This book is about some of the basic principles of statistics that are necessary to understand and evaluate methods for analyzing complex data sets The likelihood function is used for pure likelihood inference throughout the book There is also coverage of severity and finite population sampling The material was developed from an introductory statistical theory course taught by the author at the Johns Hopkins University's Department of Biostatistics Students and instructors in public health programs will benefit from the likelihood modeling approach that is used throughout the text This will also appeal to epidemiologists and psychometricians After a brief introduction there are chapters on estimation hypothesis testing and maximum likelihood modeling The book concludes with sections on Bayesian computation and inference An appendix contains unique coverage of the interpretation of probability and coverage of probability and mathematical concepts

**Probabilistic Modelling** I. Mitrani, 1998 Probabilistic modelling is the most cost effective means of performance and reliability evaluation of complex dynamic systems This self contained text will be welcomed by students and teachers for its no nonsense treatment of the basic results and examples of their application The only mathematical background that is assumed is basic calculus The necessary fundamentals of probability theory are included as well as an introduction to renewal Poisson and Markov processes Models arising in the fields of manufacturing computing and communications involving single or multiple service stations and one or more customer classes are examined in some detail Both exact and approximate solution methods are discussed including recent techniques such as spectral expansion Special attention is devoted to models of systems subject to breakdowns and repairs Throughout the book strong emphasis is placed on explaining the ideas behind the results and helping the reader to use them making the book ideal for students in computer science engineering or operations research taking courses in modern system design

**Discrete-time Asset Pricing Models in Applied Stochastic Finance** P. C. G. Vassiliou, 2013-03-01 Stochastic finance and financial engineering have been rapidly expanding fields of science over the past four decades mainly due to the success of sophisticated quantitative methodologies in helping professionals manage financial risks In recent years we have witnessed a tremendous acceleration in research efforts aimed at better comprehending modeling and hedging this kind of risk These two volumes aim to provide a foundation course on applied stochastic finance They are designed for three groups of readers

firstly students of various backgrounds seeking a core knowledge on the subject of stochastic finance secondly financial analysts and practitioners in the investment banking and insurance industries and finally other professionals who are interested in learning advanced mathematical and stochastic methods which are basic knowledge in many areas through finance Volume 1 starts with the introduction of the basic financial instruments and the fundamental principles of financial modeling and arbitrage valuation of derivatives Next we use the discrete time binomial model to introduce all relevant concepts The mathematical simplicity of the binomial model also provides us with the opportunity to introduce and discuss in depth concepts such as conditional expectations and martingales in discrete time However we do not expand beyond the needs of the stochastic finance framework Numerous examples each highlighted and isolated from the text for easy reference and identification are included The book concludes with the use of the binomial model to introduce interest rate models and the use of the Markov chain model to introduce credit risk This volume is designed in such a way that among other uses makes it useful as an undergraduate course

**Coherent Quantum Physics** Arnold Neumaier, 2019-10-21 This book introduces mathematicians physicists and philosophers to a new coherent approach to theory and interpretation of quantum physics in which classical and quantum thinking live peacefully side by side and jointly fertilize the intuition The formal mathematical core of quantum physics is cleanly separated from the interpretation issues The book demonstrates that the universe can be rationally and objectively understood from the smallest to the largest levels of modeling The thermal interpretation featured in this book succeeds without any change in the theory It involves one radical step the reinterpretation of an assumption that was virtually never questioned before the traditional eigenvalue link between theory and observation is replaced by a  $q$  expectation link Objective properties are given by  $q$  expectations of products of quantum fields and what is computable from these Averaging over macroscopic spacetime regions produces macroscopic quantities with negligible uncertainty and leads to classical physics Reflects the actual practice of quantum physics Models the quantum classical interface through coherent spaces Interprets both quantum mechanics and quantum field theory Eliminates probability and measurement from the foundations Proposes a novel solution of the measurement problem All

of Nonparametric Statistics Larry Wasserman, 2006-09-10 There are many books on various aspects of nonparametric inference such as density estimation nonparametric regression bootstrapping and wavelets methods But it is hard to find all these topics covered in one place The goal of this text is to provide readers with a single book where they can find a brief account of many of the modern topics in nonparametric inference The book is aimed at master's level or Ph D level statistics and computer science students It is also suitable for researchers in statistics machine learning and data mining who want to get up to speed quickly on modern nonparametric methods My goal is to quickly acquaint the reader with the basic concepts in many areas rather than tackling any one topic in great detail In the interest of covering a wide range of topics while keeping the book short I have opted to omit most proofs Bibliographic remarks point the reader to references that contain further

details Of course I have had to choose topics to include and to omit the title notwithstanding For the most part I decided to omit topics that are too big to cover in one chapter For example I do not cover classification or nonparametric Bayesian inference The book developed from my lecture notes for a half semester 20 hours course populated mainly by master's level students For Ph D

***Parametric Statistical Inference*** James K. Lindsey, 1996 Inference involves drawing conclusions about some general phenomenon from limited empirical observations in the face of random variability Two central unifying components of statistics are the likelihood function and the exponential family These are here brought together for the first time as the central themes of a book on statistical inference This book is appropriate as an advanced undergraduate or graduate text in mathematical statistics

***Mathematical Statistics and Applications*** Constance van Eeden, Marc Moore, 2003

***System and Bayesian Reliability*** Yu Hayakawa, Richard E. Barlow, Telba Irony, Min Xie, 2001 This volume is a collection of articles on reliability systems and Bayesian reliability analysis Written by reputable researchers the articles are self contained and are linked with literature reviews and new research ideas The book is dedicated to Emeritus Professor Richard E Barlow who is well known for his pioneering research on reliability theory and Bayesian reliability analysis

Contents System Reliability Analysis On Regular Reliability Models J C Chang et al Bounding System Reliability J N Hagstrom Large Excesses for Finite State Markov Chains D Blackwell Ageing Properties Nonmonotonic Failure Rates and Mean Residual Life Functions R C Gupta The Failure Rate and the Mean Residual Lifetime of Mixtures M S Finkelstein On Some Discrete Notions of Aging C Bracquemond et al Bayesian Analysis On the Practical Implementation of the Bayesian Paradigm in Reliability and Risk Analysis T Aven A Weibull Wearout Test Full Bayesian Approach T Z Irony et al Bayesian Nonparametric Estimation of a Monotone Hazard Rate M W Ho and other papers Readership Students academics researchers and professionals in industrial engineering probability and statistics and applied mathematics

***Statistical Methods: The Geometric Approach*** David J. Saville, Graham R. Wood, 2012-12-06 This book is a novel exposition of the traditional workhorses of statistics analysis of variance and regression The key feature is that these tools are viewed in their natural mathematical setting the geometry of finite dimensions The Authors To introduce ourselves Dave Saville is a practicing statistician working in agricultural research Graham Wood is a university lecturer involved in the teaching of statistical methods Each of us has worked for sixteen years in our current field Features of the Book People like pictures One picture can present a set of ideas at a glance while a series of pictures each building on the last can unify a wealth of ideas Such a series we present in this text by means of a systematic geometric approach to the presentation of the theory of basic statistical methods This approach fills the void between the traditional extremes of the cookbook approach and the matrix algebra approach providing an elementary but at the same time rigorous view of the subject It combines the virtues of the traditional methods while avoiding their vices

***Matrix Algebra*** James E. Gentle, 2007-08-06 Matrix algebra is one of the most important areas of mathematics for data analysis and for statistical theory The first part of this book presents the

relevant aspects of the theory of matrix algebra for applications in statistics This part begins with the fundamental concepts of vectors and vector spaces next covers the basic algebraic properties of matrices then describes the analytic properties of vectors and matrices in the multivariate calculus and finally discusses operations on matrices in solutions of linear systems and in eigenanalysis This part is essentially self contained The second part of the book begins with a consideration of various types of matrices encountered in statistics such as projection matrices and positive definite matrices and describes the special properties of those matrices The second part also describes some of the many applications of matrix theory in statistics including linear models multivariate analysis and stochastic processes The brief coverage in this part illustrates the matrix theory developed in the first part of the book The first two parts of the book can be used as the text for a course in matrix algebra for statistics students or as a supplementary text for various courses in linear models or multivariate statistics The third part of this book covers numerical linear algebra It begins with a discussion of the basics of numerical computations and then describes accurate and efficient algorithms for factoring matrices solving linear systems of equations and extracting eigenvalues and eigenvectors Although the book is not tied to any particular software system it describes and gives examples of the use of modern computer software for numerical linear algebra This part is essentially self contained although it assumes some ability to program in Fortran or C and or the ability to use R S Plus or Matlab This part of the book can be used as the text for a course in statistical computing or as a supplementary text for various courses that emphasize computations The book includes a large number of exercises with some solutions provided in an appendix

*Linear Models for Multivariate, Time Series, and Spatial Data* Ronald Christensen, 2013-11-11 This is a companion volume to *Plane Answers to Complex Questions: The Theory of Linear Models* It consists of six additional chapters written in the same spirit as the last six chapters of the earlier book Brief introductions are given to topics related to linear model theory No attempt is made to give a comprehensive treatment of the topics Such an effort would be futile Each chapter is on a topic so broad that an in depth discussion would require a book length treatment People need to impose structure on the world in order to understand it There is a limit to the number of unrelated facts that anyone can remember If ideas can be put within a broad sophisticatedly simple structure not only are they easier to remember but often new insights become available In fact sophisticatedly simple models of the world may be the only ones that work I have often heard Arnold Zellner say that to the best of his knowledge this is true in econometrics The process of modeling is fundamental to understanding the world

*Lower Previsions* Matthias C. M. Troffaes, Gert de Cooman, 2014-04-09 This book has two main purposes On the one hand it provides a concise and systematic development of the theory of lower previsions based on the concept of acceptability in spirit of the work of Williams and Walley On the other hand it also extends this theory to deal with unbounded quantities which abound in practical applications Following Williams we start out with sets of acceptable gambles From those we derive rationality criteria avoiding sure loss and coherence and inference methods natural extension for unconditional lower

previsions We then proceed to study various aspects of the resulting theory including the concept of expectation linear previsions limits vacuous models classical propositional logic lower oscillations and monotone convergence We discuss monotonicity for lower previsions and relate lower previsions with Choquet integration belief functions random sets possibility measures various integrals symmetry and representation theorems based on the Bishop De Leeuw theorem Next we extend the framework of sets of acceptable gambles to consider also unbounded quantities As before we again derive rationality criteria and inference methods for lower previsions this time also allowing for conditioning We apply this theory to construct extensions of lower previsions from bounded random quantities to a larger set of random quantities based on ideas borrowed from the theory of Dunford integration A first step is to extend a lower prevision to random quantities that are bounded on the complement of a null set essentially bounded random quantities This extension is achieved by a natural extension procedure that can be motivated by a rationality axiom stating that adding null random quantities does not affect acceptability In a further step we approximate unbounded random quantities by a sequences of bounded ones and in essence we identify those for which the induced lower prevision limit does not depend on the details of the approximation We call those random quantities previsible We study previsibility by cut sequences and arrive at a simple sufficient condition For the 2 monotone case we establish a Choquet integral representation for the extension For the general case we prove that the extension can always be written as an envelope of Dunford integrals We end with some examples of the theory

Theory of Statistical Inference Anthony Almudevar, 2021-12-30 Theory of Statistical Inference is designed as a reference on statistical inference for researchers and students at the graduate or advanced undergraduate level It presents a unified treatment of the foundational ideas of modern statistical inference and would be suitable for a core course in a graduate program in statistics or biostatistics The emphasis is on the application of mathematical theory to the problem of inference leading to an optimization theory allowing the choice of those statistical methods yielding the most efficient use of data The book shows how a small number of key concepts such as sufficiency invariance stochastic ordering decision theory and vector space algebra play a recurring and unifying role The volume can be divided into four sections Part I provides a review of the required distribution theory Part II introduces the problem of statistical inference This includes the definitions of the exponential family invariant and Bayesian models Basic concepts of estimation confidence intervals and hypothesis testing are introduced here Part III constitutes the core of the volume presenting a formal theory of statistical inference Beginning with decision theory this section then covers uniformly minimum variance unbiased UMVU estimation minimum risk equivariant MRE estimation and the Neyman Pearson test Finally Part IV introduces large sample theory This section begins with stochastic limit theorems the method the Bahadur representation theorem for sample quantiles large sample U estimation the Cram r Rao lower bound and asymptotic efficiency A separate chapter is then devoted to estimating equation methods The volume ends with a detailed development of large sample hypothesis testing based on the likelihood ratio test



LRT Rao score test and the Wald test Features This volume includes treatment of linear and nonlinear regression models ANOVA models generalized linear models GLM and generalized estimating equations GEE An introduction to decision theory including risk admissibility classification Bayes and minimax decision rules is presented The importance of this sometimes overlooked topic to statistical methodology is emphasized The volume emphasizes throughout the important role that can be played by group theory and invariance in statistical inference Nonparametric rank based methods are derived by the same principles used for parametric models and are therefore presented as solutions to well defined mathematical problems rather than as robust heuristic alternatives to parametric methods Each chapter ends with a set of theoretical and applied exercises integrated with the main text Problems involving R programming are included Appendices summarize the necessary background in analysis matrix algebra and group theory

*Bayesian Core: A Practical Approach to Computational Bayesian Statistics* Jean-Michel Marin, Christian Robert, 2007-05-26 After that it was down to attitude Ian Rankin Black Blue The purpose of this book is to provide a self contained we insist entry into practical and computational Bayesian statistics using generic examples from the most common models for a class duration of about seven blocks that roughly correspond to 13 to 15 weeks of teaching with three hours of lectures per week depending on the intended level and the prerequisites imposed on the students That estimate does not include practice i e programming labs since those may have a variable duration also depending on the students involvement and their programming abilities The emphasis on practice is a strong feature of this book in that its primary audience consists of graduate students who need to use Bayesian statistics as a tool to analyze their experiments and or datasets The book should also appeal to scientists in all elds given the versatility of the Bayesian tools It can also be used for a more classical statistics audience when aimed at teaching a quick entry to Bayesian statistics at the end of an undergraduate program for instance Obviously it can supplement another textbook on data analysis at the graduate level

**Plane Answers to Complex Questions** Ronald Christensen, 2013-03-09 The second edition of Plane Answers has many additions and a couple of deletions New material includes additional illustrative examples in Appendices A and B and Chapters 2 and 3 as well as discussions of Bayesian estimation near replicate lack of fit tests testing the independence assumption testing variance components the interblock analysis for balanced in complete block designs nonestimable constraints analysis of unreplicated experiments using normal plots tensors and properties of Kronecker products and Vee operators The book contains an improved discussion of the relation between ANOVA and regression and an improved presentation of general Gauss Markov models The primary material that has been deleted are the discussions of weighted means and of log linear models The material on log linear models was included in Christensen 1990b so it became redundant here Generally I have tried to clean up the presentation of ideas wherever it seemed obscure to me Much of the work on the second edition was done while on sabbatical at the University of Canterbury in Christchurch New Zealand I would particularly like to thank John Deely for arranging my sabbatical Through their comments and criticisms four people were

particularly helpful in constructing this new edition I would like to thank Wes Johnson Snehalata Huzurbazar Ron Butler and Vance Berger     *New Approaches to Macroeconomic Modeling* Masanao Aoki, 1998-02-13 This book provides a method for modeling large collections of heterogeneous agents subject to non pairwise externality called field effects

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Probability Via Expectation**

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