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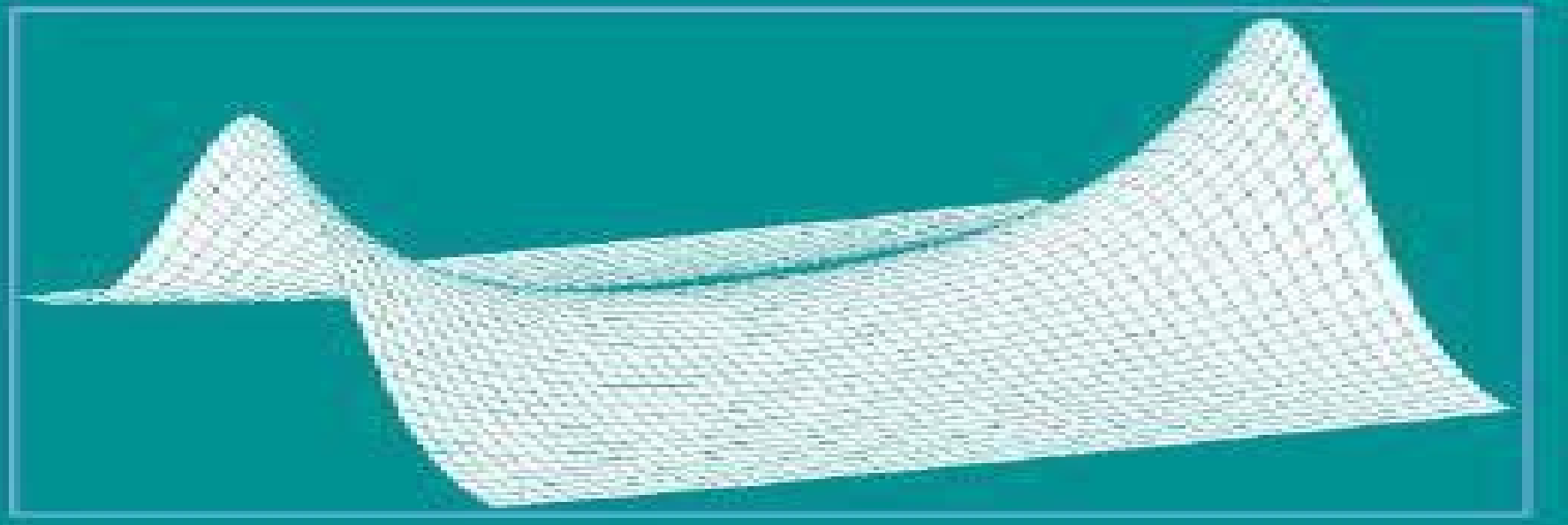

Saddlepoint Approximations with Applications

Ronald W. Butler

Saddlepoint Approximations

Thomas A. Severini

Saddlepoint Approximations:

Saddlepoint Approximations Jens Ledet Jensen,1995 Although introduced more than 60 years ago it is only during the last 15 years that there has been a systematic development of saddlepoint approximations These approximations give a highly accurate expression for the tail of a distribution not only in the centre of the distribution but also for very small tail probabilities The price for this is a more cumbersome formula the evaluation of which sometimes requires the use of a small personal computer This book explains the ideas behind the saddlepoint approximations as well as giving a detailed mathematical description of the subject The emphasis is two fold One is on popularizing the formulae through many worked out and ready to use examples The second is on giving a comprehensive mathematical background for further research in the field Some of the major subjects treated are uniformity of the approximations tests in exponential families and compound sums with applications in insurance mathematics *Saddlepoint Approximations with Applications* Ronald W. Butler,2007-08-16 Modern statistical methods use complex sophisticated models that can lead to intractable computations Saddlepoint approximations can be the answer Written from the user s point of view this book explains in clear language how such approximate probability computations are made taking readers from the very beginnings to current applications The core material is presented in chapters 1 6 at an elementary mathematical level Chapters 7 9 then give a highly readable account of higher order asymptotic inference Later chapters address areas where saddlepoint methods have had substantial impact multivariate testing stochastic systems and applied probability bootstrap implementation in the transform domain and Bayesian computation and inference No previous background in the area is required Data examples from real applications demonstrate the practical value of the methods Ideal for graduate students and researchers in statistics biostatistics electrical engineering econometrics and applied mathematics this is both an entry level text and a valuable reference

Saddlepoint Approximation Methods in Financial Engineering Yue Kuen Kwok,Wendong Zheng,2018-02-16 This book summarizes recent advances in applying saddlepoint approximation methods to financial engineering It addresses pricing exotic financial derivatives and calculating risk contributions to Value at Risk and Expected Shortfall in credit portfolios under various default correlation models These standard problems involve the computation of tail probabilities and tail expectations of the corresponding underlying state variables The text offers in a single source most of the saddlepoint approximation results in financial engineering with different sets of ready to use approximation formulas Much of this material may otherwise only be found in original research publications The exposition and style are made rigorous by providing formal proofs of most of the results Starting with a presentation of the derivation of a variety of saddlepoint approximation formulas in different contexts this book will help new researchers to learn the fine technicalities of the topic It will also be valuable to quantitative analysts in financial institutions who strive for effective valuation of prices of exotic financial derivatives and risk positions of portfolios of risky instruments **Series Approximation Methods in Statistics**

John E. Kolassa,2013-04-17 This book was originally compiled for a course I taught at the University of Rochester in the fall of 1991 and is intended to give advanced graduate students in statistics an introduction to Edgeworth and saddlepoint approximations and related techniques Many other authors have also written monographs on this subject and so this work is narrowly focused on two areas not recently discussed in theoretical text books These areas are first a rigorous consideration of Edgeworth and saddlepoint expansion limit theorems and second a survey of the more recent developments in the field In presenting expansion limit theorems I have drawn heavily 011 notation of McCullagh 1987 and on the theorems presented by Feller 1971 on Edgeworth expansions For saddlepoint notation and results I relied most heavily on the many papers of Daniels and a review paper by Reid 1988 Throughout this book I have tried to maintain consistent notation and to present theorems in such a way as to make a few theoretical results useful in as many contexts as possible This was not only in order to present as many results with as few proofs as possible but more importantly to show the interconnections between the various facets of asymptotic theory Special attention is paid to regularity conditions The reasons they are needed and the parts they play in the proofs are both highlighted **Elements of Distribution Theory** Thomas A. Severini,2005-08-08 This detailed introduction to distribution theory uses no measure theory making it suitable for students in statistics and econometrics as well as for researchers who use statistical methods Good backgrounds in calculus and linear algebra are important and a course in elementary mathematical analysis is useful but not required An appendix gives a detailed summary of the mathematical definitions and results that are used in the book Topics covered range from the basic distribution and density functions expectation conditioning characteristic functions cumulants convergence in distribution and the central limit theorem to more advanced concepts such as exchangeability models with a group structure asymptotic approximations to integrals orthogonal polynomials and saddlepoint approximations The emphasis is on topics useful in understanding statistical methodology thus parametric statistical models and the distribution theory associated with the normal distribution are covered comprehensively **Approximated and Estimated Saddlepoint Approximations** Pamela Ann Ohman,1997

Saddlepoint Approximations, Edgeworth Expansions and Normal Approximations Jens Ledet Jensen,1993

Directional and Multivariate Statistics Somesh Kumar,Barry C. Arnold,Kunio Shimizu,Arnab Kumar Laha,2025-05-05 This book contains select chapters on a range of topics in directional statistics multivariate statistical inference financial statistics statistical machine learning and reliability inference At the 43rd Annual Convention of the Indian Society for Probability and Statistics ISPS held in Prayagraj formerly Allahabad Uttar Pradesh India from 6 8 February 2024 attribute was paid to Prof Ashis SenGupta on the occasion of his 70th birthday He has pioneered research on directional statistics in the modern era in India and enhanced it worldwide and contributed significantly to the advancement of the following topics Highly flexible distributions on manifolds Statistical machine learning in data science Big data on manifolds Optimal multiparameter multivariate statistical inference Reliability inference and stress dependent strength models Directional

statistics for highly volatile financial models Cylindrical spherical and toroidal regression analysis Innovative applications of emerging real life directional data **Asymptotic Theory of Statistics and Probability** Anirban DasGupta,2008-03-07 This unique book delivers an encyclopedic treatment of classic as well as contemporary large sample theory dealing with both statistical problems and probabilistic issues and tools The book is unique in its detailed coverage of fundamental topics It is written in an extremely lucid style with an emphasis on the conceptual discussion of the importance of a problem and the impact and relevance of the theorems There is no other book in large sample theory that matches this book in coverage exercises and examples bibliography and lucid conceptual discussion of issues and theorems Crossing Boundaries John Edward Kolassa,David Oakes (Statistician),William Jackson Hall,2003 **Handbook of Computational Statistics** James E. Gentle,Wolfgang Karl Härdle,Yuichi Mori,2012-07-06 The Handbook of Computational Statistics Concepts and Methods second edition is a revision of the first edition published in 2004 and contains additional comments and updated information on the existing chapters as well as three new chapters addressing recent work in the field of computational statistics This new edition is divided into 4 parts in the same way as the first edition It begins with How Computational Statistics became the backbone of modern data science Ch 1 an overview of the field of Computational Statistics how it emerged as a separate discipline and how its own development mirrored that of hardware and software including a discussion of current active research The second part Chs 2 15 presents several topics in the supporting field of statistical computing Emphasis is placed on the need for fast and accurate numerical algorithms and some of the basic methodologies for transformation database handling high dimensional data and graphics treatment are discussed The third part Chs 16 33 focuses on statistical methodology Special attention is given to smoothing iterative procedures simulation and visualization of multivariate data Lastly a set of selected applications Chs 34 38 like Bioinformatics Medical Imaging Finance Econometrics and Network Intrusion Detection highlight the usefulness of computational statistics in real world applications , Modelling and Simulation of Stochastic Volatility in Finance Christian Kahl,2008 The famous Black Scholes model was the starting point of a new financial industry and has been a very important pillar of all options trading since One of its core assumptions is that the volatility of the underlying asset is constant It was realised early that one has to specify a dynamic on the volatility itself to get closer to market behaviour There are mainly two aspects making this fact apparent Considering historical evolution of volatility by analysing time series data one observes erratic behaviour over time Secondly backing out implied volatility from daily traded plain vanilla options the volatility changes with strike The most common realisations of this phenomenon are the implied volatility smile or skew The natural question arises how to extend the Black Scholes model appropriately Within this book the concept of stochastic volatility is analysed and discussed with special regard to the numerical problems occurring either in calibrating the model to the market implied volatility surface or in the numerical simulation of the two dimensional system of stochastic differential equations required to price non vanilla financial derivatives We introduce a new stochastic

volatility model the so called Hyp Hyp model and use Watanabe s calculus to find an analytical approximation to the model implied volatility Further the class of affine diffusion models such as Heston is analysed in view of using the characteristic function and Fourier inversion techniques to value European derivatives **Efficient pricing algorithms for exotic derivatives** Roger Lord,2008 **Joint Statistical Papers Of Akahira And Takeuchi** Masafumi Akahira,Kei Takeuchi,2003-08-13 Masafumi Akahira and Kei Takeuchi have collaborated in research on mathematical statistics for nearly thirty years and have published many articles and papers This volume is a collection of their papers some published in well known and others in lesser known journals The papers cover various fields but the main subject is the theory of estimation asymptotic non regular sequential etc All the papers are theoretical in nature but have implications for applied problems

The Theory of Dispersion Models Bent Jorgensen,1997-06-01 The theory of dispersion models straddles both statistics and probability and involves an encyclopedic collection of tools such as exponential families asymptotic theory stochastic processes Tauber theory infinite divisibility and stable distributions The Theory of Dispersion Models introduces the reader to these models which serve as error distributions for generalized linear models and looks at their applications within this context Encyclopedia of Statistical Sciences, Volume 1 ,2005-12-16 Countless professionals and students who use statistics in their work rely on the multi volume Encyclopedia of Statistical Sciences as a superior and unique source of information on statistical theory methods and applications This new edition available in both print and on line versions is designed to bring the encyclopedia in line with the latest topics and advances made in statistical science over the past decade in areas such as computer intensive statistical methodology genetics medicine the environment and other applications Written by over 600 world renowned experts including the editors the entries are self contained and easily understood by readers with a limited statistical background With the publication of this second edition in 16 printed volumes the Encyclopedia of Statistical Sciences retains its position as a cutting edge reference of choice for those working in statistics biostatistics quality control economics sociology engineering probability theory computer science biomedicine psychology and many other areas *Probability, Finance and Insurance* T. L. Lai,Hailiang Yang,Siu Pang Yung,2004 This workshop was the first of its kind in bringing together researchers in probability theory stochastic processes insurance and finance from mainland China Taiwan Hong Kong Singapore Australia and the United States In particular as China has joined the WTO there is a growing demand for expertise in actuarial sciences and quantitative finance The strong probability research and graduate education programs in many of China s universities can be enriched by their outreach in fields that are of growing importance to the country s expanding economy and the workshop and its proceedings can be regarded as the first step in this direction This book presents the most recent developments in probability finance and actuarial sciences especially in Chinese probability research It focuses on the integration of probability theory with applications in finance and insurance It also brings together academic researchers and those in industry and government With contributions by leading

authorities on probability theory particularly limit theory and large derivations valuation of credit derivatives portfolio selection dynamic protection and ruin theory it is an essential source of ideas and information for graduate students and researchers in probability theory mathematical finance and actuarial sciences and thus every university should acquire a copy The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences **Probability, Finance And Insurance, Proceedings Of A Workshop** Siu Pang Yung,Tze Leung Lai,Hailiang Yang,2004-06-28 This workshop was the first of its kind in bringing together researchers in probability theory stochastic processes insurance and finance from mainland China Taiwan Hong Kong Singapore Australia and the United States In particular as China has joined the WTO there is a growing demand for expertise in actuarial sciences and quantitative finance The strong probability research and graduate education programs in many of China s universities can be enriched by their outreach in fields that are of growing importance to the country s expanding economy and the workshop and its proceedings can be regarded as the first step in this direction This book presents the most recent developments in probability finance and actuarial sciences especially in Chinese probability research It focuses on the integration of probability theory with applications in finance and insurance It also brings together academic researchers and those in industry and government With contributions by leading authorities on probability theory particularly limit theory and large derivations valuation of credit derivatives portfolio selection dynamic protection and ruin theory it is an essential source of ideas and information for graduate students and researchers in probability theory mathematical finance and actuarial sciences and thus every university should acquire a copy The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences Methods for Estimation and Inference in Modern Econometrics Stanislav Anatolyev,Nikolay Gospodinov,2011-06-07 This book covers important topics in econometrics It discusses methods for efficient estimation in models defined by unconditional and conditional moment restrictions inference in misspecified models generalized empirical likelihood estimators and alternative asymptotic approximations The first chapter provides a general overview of established nonparametric and parametric approaches to estimation and conventional frameworks for statistical inference The next several chapters focus on the estimation of models based on moment restrictions implied by economic theory The final chapters cover nonconventional asymptotic tools that lead to improved finite sample inference

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