

# Univariate Discrete Distributions

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univariate discrete distributions provides a self contained systematic treatment of the theory derivation and application of probability distributions for count data

generalized zeta function and q series distributions have been added and are covered in detail new families of distributions including lagrangian type distributions are integrated into this thoroughly revised and updated text additional applications of univariate discrete distributions are explored to demonstrate the flexibility of this powerful method a thorough survey of recent statistical literature draws attention to many new distributions and results for the classical distributions approximately 450 new references along with several new sections are introduced to reflect the current literature and knowledge of discrete distributions beginning with mathematical probability and statistical fundamentals the authors provide clear coverage of the key topics in the field including families of discrete distributions binomial distribution poisson distribution negative binomial distribution hypergeometric distributions logarithmic and lagrangian distributions mixture distributions stopped sum distributions matching occupancy runs and q series distributions parametric regression models and miscellanea emphasis continues to be placed on the increasing relevance of bayesian inference to discrete distribution especially with regard to the binomial and poisson distributions new derivations of discrete distributions via stochastic processes and random walks are introduced without unnecessarily complex discussions of stochastic processes throughout the third edition extensive information has been added to reflect the new role of computer based applications with its thorough coverage and balanced presentation of theory and application this is an excellent and essential reference for statisticians and mathematicians

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since 1980 methods for recursive evaluation of aggregate claims distributions have received extensive attention in the actuarial literature this book gives a unified survey of the theory and is intended to be self contained to a large extent as the methodology is applicable also outside the actuarial field it is presented in a general setting but actuarial applications are used for motivation the book is divided into two parts part i is devoted to univariate distributions whereas in part ii the methodology is extended to multivariate settings primarily intended as a monograph this book can also be used as text for courses on the graduate level suggested outlines for such courses are given the book is of interest for actuaries and statisticians working within the insurance and finance industry as well as for people in other fields like operations research and reliability theory

easy to use reference and software for statistical modeling and testing handbook of statistical distributions with applications second edition provides quick access to common and specialized probability distributions for modeling practical problems and performing statistical calculations along with many new examples and results this edition inclu

an introduction to probability and mathematical statistics provides information pertinent to the fundamental aspects of probability and mathematical statistics this book covers a variety of topics including random variables probability distributions discrete distributions and point estimation organized into 13 chapters this book begins with an overview of the definition of function this text then examines the notion of conditional or relative probability other chapters consider cochrans theorem which is of extreme importance in that part of statistical inference known as analysis of variance this book discusses as well the fundamental principles of testing statistical hypotheses by providing the reader with an idea of the basic problem and its relation to practice the final chapter deals with the problem of estimation and the neyman theory of confidence intervals this book is a valuable resource for undergraduate university students who are majoring in mathematics students who are majoring in physics and who are inclined toward abstract mathematics will also find this book useful

this is the proceedings of the 11th international workshop on structural and syntactic pattern recognition sspr 2006 and the 6th international workshop on statistical techniques in pattern recognition spr 2006 held in hong kong august 2006 alongside the conference on pattern recognition icpr 2006 38 revised full papers and 61 revised poster papers are included together with 4 invited papers covering image analysis character recognition bayesian networks graph based methods and more

this richly illustrated textbook covers modern statistical methods with applications in medicine epidemiology and biology firstly it discusses the importance of statistical models in applied quantitative research and the central role of the likelihood function describing likelihood based inference from a frequentist viewpoint and exploring the properties of the maximum likelihood estimate the score function the likelihood ratio and the wald statistic in the second part of the book likelihood is combined with prior information to perform bayesian inference topics include bayesian updating conjugate and reference priors bayesian point and interval estimates bayesian asymptotics and empirical bayes methods it includes a separate chapter on modern numerical techniques for bayesian inference and also addresses advanced topics such as model choice and prediction from frequentist and bayesian perspectives this revised edition of the book applied statistical

inference has been expanded to include new material on markov models for time series analysis it also features a comprehensive appendix covering the prerequisites in probability theory matrix algebra mathematical calculus and numerical analysis and each chapter is complemented by exercises the text is primarily intended for graduate statistics and biostatistics students with an interest in applications

this book covers modern statistical inference based on likelihood with applications in medicine epidemiology and biology two introductory chapters discuss the importance of statistical models in applied quantitative research and the central role of the likelihood function the rest of the book is divided into three parts the first describes likelihood based inference from a frequentist viewpoint properties of the maximum likelihood estimate the score function the likelihood ratio and the wald statistic are discussed in detail in the second part likelihood is combined with prior information to perform bayesian inference topics include bayesian updating conjugate and reference priors bayesian point and interval estimates bayesian asymptotics and empirical bayes methods modern numerical techniques for bayesian inference are described in a separate chapter finally two more advanced topics model choice and prediction are discussed both from a frequentist and a bayesian perspective a comprehensive appendix covers the necessary prerequisites in probability theory matrix algebra mathematical calculus and numerical analysis

this volume showcases a collection of thirty two peer reviewed articles presented at the xxvi congress of the portuguese statistical society 2023 it covers a wide range of cutting edge topics in both theoretical and applied statistics each contribution highlights the latest advancements and research in the field offering valuable insights and innovative methodologies for researchers and practitioners alike readers with a background in mathematics and statistics will find it particularly beneficial while researchers from various scientific disciplines can explore numerous robust applications

the international encyclopedia of statistical science stands as a monumental effort to enrich statistics education globally particularly in regions facing educational challenges by amalgamating the expertise of over 700 authors from 110 countries including nobel laureates and presidents of statistical societies it offers an unparalleled resource for readers worldwide this encyclopedia is not just a collection of entries it is a concerted effort to revive statistics as a vibrant critical field of study and application providing a comprehensive and accessible account of statistical terms methods and applications it enables readers to gain a quick insight into the subject regardless of their background this work serves to refresh and expand the knowledge of researchers managers and practitioners highlighting the relevance and applicability of statistics across various fields from economics and business to healthcare and public policy furthermore it aims to inspire students by demonstrating the significance of statistics in solving real world problems thus encouraging a new generation to explore and contribute to the field

the first volume in what is widely recognized as the definitive work on statistical distributions this book is a comprehensive revision of johnson and kotz s acclaimed 1994 volume it represents the next installment in a unique collection that encompasses continuous univariate distributions discrete multivariate distributions continuous multivariate distributions and univariate discrete distributions presenting a comprehensive authoritative up to date treatment of continuous univariate distributions and this work focuses on the many ways in which various statistical distributions have been constructed investigated and applied over the past thirty

plus years

this useful reference text provides a comprehensive study of the various bivariate discretedistributions that have appeared in the literature written in an accessible manner thatassumes no more than a first course in mathematical statistics supplying individualized treatment of topics while simultaneously exploiting the interrelationshipsof the material bivariate discrete distributions details the latest techniques ofcomputer simulation for the distributions considered contains a general introduction tothe structural properties of discrete distributions including generating functions momentrelationships and the basic ideas of generalizing develops distributions using samplingschemes explores the role of compounding covers waring and short distributionsfor use in accident theory discusses problems of statistical inference emphasizing techniquespertinent to the discrete case and much more containing over 1000 helpful equations bivariate discrete distributions is

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