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# Number-theoretic Methods in Statistics

K.-T. Fang and  
Y. Wang



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# Number Theoretic Methods In Statistics

**J Grandell**



## **Number Theoretic Methods In Statistics:**

*Number-Theoretic Methods in Statistics* Kai-Tai Fang, Y. Wang, 1993-12-01 This book is a survey of recent work on the application of number theory in statistics The essence of number theoretic methods is to find a set of points that are universally scattered over an  $s$  dimensional unit cube In certain circumstances this set can be used instead of random numbers in the Monte Carlo method The idea can also be applied to other problems such as in experimental design This book will illustrate the idea of number theoretic methods and their application in statistics The emphasis is on applying the methods to practical problems so only part proofs of theorems are given

**Number-theoretic Methods in Statistics**

Kai-tai Fang, Yuan Wang, 2013-11-07 This book contains some of the research work conducted by the authors in past seventeen years Our research started in 1976 At that time the first author was studying a problem of alloy steel standardization where a series of probabilities of the 5 dimensional normal distribution needed to be calculated Since the usual methods for numerical evaluation of multiple definite integral were all ineffective he asked the second author for input on the number theoretic method for numerical integration As a result his problem was solved by using the number theoretic method The essence of the number theoretic method NTM is to find a set of points that is uniformly scattered over an  $s$  dimensional unit cube and sometimes this set can be used instead of random number in Monte Carlo method The authors then understood that this idea can apply also to some other problems for instance problems in experimental design In 1978 a Chinese industrial agency proposed a problem of experimental designs to the authors where six factors with at least 12 levels for each factor should be considered Since the experiment was quite expensive we were asked to provide an efficient experimental design within 50 experiments This led us to study the problem on how to apply the number theoretic method to arrange the experiments and we proposed a so called uniform design for designing experiments

**Numerical Methods of Statistics** John F. Monahan, 2001-02-05 This 2001 book provides a basic background in numerical analysis and its applications in statistics

**Information-Theoretic Methods in Data Science** Miguel R. D. Rodrigues, Yonina C. Eldar, 2021-04-08 The first unified treatment of the interface between information theory and emerging topics in data science written in a clear tutorial style Covering topics such as data acquisition representation analysis and communication it is ideal for graduate students and researchers in information theory signal processing and machine learning

**Selected Papers of Wang Yuan** Yuan Wang, 2005 This volume presents a comprehensive collection of Wang Yuan's original important

papers which are not available elsewhere since the majority of the papers were published in China Covering both pure number theory and applied mathematics this book is important for understanding Wang Yuan's academic career and also the development of Chinese mathematics in recent years since Wang Yuan's work has a wide ranging influence in China Wang Yuan is a professor and academician of the Chinese Academy of Sciences He received his honorable Doctorship from Hong Kong Baptist University He has published 70 papers and ten books

**Multivariate Analysis and Its Applications**

Theodore Wilbur Anderson, Ingram Olkin, 1994      *Theory of Factorial Design* Ching-Shui Cheng, 2016-04-19 Bringing together both new and old results Theory of Factorial Design Single and Multi Stratum Experiments provides a rigorous systematic and up to date treatment of the theoretical aspects of factorial design To prepare readers for a general theory the author first presents a unified treatment of several simple designs including completely randomized designs block designs and row column designs As such the book is accessible to readers with minimal exposure to experimental design With exercises and numerous examples it is suitable as a reference for researchers and as a textbook for advanced graduate students In addition to traditional topics and a thorough discussion of the popular minimum aberration criterion the book covers many topics and new results not found in existing books These include results on the structures of two level resolution IV designs methods for constructing such designs beyond the familiar foldover method the extension of minimum aberration to nonregular designs the equivalence of generalized minimum aberration and minimum moment aberration a Bayesian approach and some results on nonregular designs The book also presents a theory that provides a unifying framework for the design and analysis of factorial experiments with multiple strata error terms arising from complicated structures of the experimental units This theory can be systematically applied to various structures of experimental units instead of treating each on a case by case basis      **Multivariate Statistics** T. Kollo, E.-M. Tiit, M. Srivastava, 2011-09-06 No detailed description available for Multivariate Statistics      *Contemporary Experimental Design, Multivariate Analysis and Data Mining* Jianqing Fan, Jianxin Pan, 2020-05-22 The collection and analysis of data play an important role in many fields of science and technology such as computational biology quantitative finance information engineering machine learning neuroscience medicine and the social sciences Especially in the era of big data researchers can easily collect data characterised by massive dimensions and complexity In celebration of Professor Kai Tai Fang's 80th birthday we present this book which furthers new and exciting developments in modern statistical theories methods and applications The book features four review papers on Professor Fang's numerous contributions to the fields of experimental design multivariate analysis data mining and education It also contains twenty research articles contributed by prominent and active figures in their fields The articles cover a wide range of important topics such as experimental design multivariate analysis data mining hypothesis testing and statistical models      *Celebrating Statistics* A. C. Davison, Yadolah Dodge, N. Wermuth, 2005-09-22 Sir David Cox is among the most important statisticians of the past half century He has made pioneering and highly influential contributions to a uniquely wide range of topics in statistics and applied probability His teaching has inspired generations of students and many well known researchers have begun as his graduate students or have worked with him at early stages of their careers Legions of others have been stimulated and enlightened by the clear concise and direct exposition exemplified by his many books papers and lectures This book presents a collection of chapters by major statistical researchers who attended a conference held at the University of Neuchatel in July 2004 to celebrate David Cox's 80th birthday Each chapter is

carefully crafted and collectively present current developments across a wide range of research areas from epidemiology environmental science finance computing and medicine Edited by Anthony Davison Ecole Polytechnique Federale de Lausanne Switzerland Yadolah Dodge University of Neuchatel Switzerland and N Wermuth Goteborg University Sweden with chapters by Ole E Barndorff Nielsen Sarah C Darby Christina Davies Peter J Diggle David Firth Peter Hall Valerie S Isham Kung Yee Liang Peter McCullagh Paul McGale Amilcare Porporato Nancy Reid Brian D Ripley Ignacio Rodriguez Iturbe Andrea Rotnitzky Neil Shephard Scott L Zeger and including a brief biography of David Cox this book is suitable for students of statistics epidemiology environmental science finance computing and medicine and academic and practising statisticians

**Bootstrap Methods** Michael R. Chernick, 2011-09-23 A practical and accessible introduction to the bootstrap method newly revised and updated Over the past decade the application of bootstrap methods to new areas of study has expanded resulting in theoretical and applied advances across various fields Bootstrap Methods Second Edition is a highly approachable guide to the multidisciplinary real world uses of bootstrapping and is ideal for readers who have a professional interest in its methods but are without an advanced background in mathematics Updated to reflect current techniques and the most up to date work on the topic the Second Edition features The addition of a second extended bibliography devoted solely to publications from 1999 2007 which is a valuable collection of references on the latest research in the field A discussion of the new areas of applicability for bootstrap methods including use in the pharmaceutical industry for estimating individual and population bioequivalence in clinical trials A revised chapter on when and why bootstrap fails and remedies for overcoming these drawbacks Added coverage on regression censored data applications P value adjustment ratio estimators and missing data New examples and illustrations as well as extensive historical notes at the end of each chapter With a strong focus on application detailed explanations of methodology and complete coverage of modern developments in the field Bootstrap Methods Second Edition is an indispensable reference for applied statisticians engineers scientists clinicians and other practitioners who regularly use statistical methods in research It is also suitable as a supplementary text for courses in statistics and resampling methods at the upper undergraduate and graduate levels

**Constrained Principal Component Analysis and Related Techniques** Yoshio Takane, 2016-04-19 In multivariate data analysis regression techniques predict one set of variables from another while principal component analysis PCA finds a subspace of minimal dimensionality that captures the largest variability in the data How can regression analysis and PCA be combined in a beneficial way Why and when is it a good idea to combine them Wha

**The Theory of the Design of Experiments** D.R. Cox, Nancy Reid, 2000-06-06 Why study the theory of experiment design Although it can be useful to know about special designs for specific purposes experience suggests that a particular design can rarely be used directly It needs adaptation to accommodate the circumstances of the experiment Successful designs depend upon adapting general theoretical principles to the spec

*Collecting Spatial Data* Werner G. Müller, 2007-08-17 The book is concerned with the statistical theory for

locating spatial sensors It bridges the gap between spatial statistics and optimum design theory After introductions to those two fields the topics of exploratory designs and designs for spatial trend and variogram estimation are treated Special attention is devoted to describing new methodologies to cope with the problem of correlated observations **Advanced**

**Research on Computer Science and Information Engineering** Gang Shen,Xiong Huang,2011-05-09 This two volume set CCIS 152 and CCIS 153 constitutes the refereed proceedings of the International Conference on Computer Science and Information Engineering CSIE 2011 held in Zhengzhou China in May 2011 The 159 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions The papers present original research results that are broadly relevant to the theory and applications of Computer Science and Information Engineering and address a wide variety of topics such as algorithms automation artificial intelligence bioinformatics computer networks computer security computer vision modeling and simulation databases data mining e learning e commerce e business image processing knowledge management multimedia mobile computing natural computing open and innovative education pattern recognition parallel computing robotics wireless networks and Web applications Springer Handbook of Engineering

Statistics Hoang Pham,2006 In today s global and highly competitive environment continuous improvement in the processes and products of any field of engineering is essential for survival This book gathers together the full range of statistical techniques required by engineers from all fields It will assist them to gain sensible statistical feedback on how their processes or products are functioning and to give them realistic predictions of how these could be improved The handbook will be essential reading for all engineers and engineering connected managers who are serious about keeping their methods and products at the cutting edge of quality and competitiveness **Introduction to High-Dimensional Statistics**

Christophe Giraud,2014-12-17 Ever greater computing technologies have given rise to an exponentially growing volume of data Today massive data sets with potentially thousands of variables play an important role in almost every branch of modern human activity including networks finance and genetics However analyzing such data has presented a challenge for statisticians My Mathematical Life Yuan Wang,2024-03-21 This book is an autobiographical interview with Chinese

Academician Yuan Wang on his experience in mathematical research The book looks back on Wang s collaboration with his teacher Hua Loo Keng and younger scholars offering insights into fruitful cooperation in mathematical research In this book Yuan Wang s path of studying Goldbach conjecture is revealed in detail from motivation to method Then his work on algebraic number theory is traced back in a separate chapter The book ends with two chapters which introduce Wang s interest in history of mathematics and his hobbies outside of mathematical research Wang shows how a mathematician can in the same time be a historical and popular science writer and in particular a well received calligrapher The book is intended for undergraduate and graduate students studying number theory Researchers who are willing to learn from the experience of an established mathematician as well as math amateurs and general audience who are interested in Yuan Wang s life story

might also find this book appealing      *Semialgebraic Statistics and Latent Tree Models* Piotr Zwiernik, 2015-08-21 The first part of the book gives a general introduction to key concepts in algebraic statistics focusing on methods that are helpful in the study of models with hidden variables The author uses tensor geometry as a natural language to deal with multivariate probability distributions develops new combinatorial tools to study models with hidden data and describes the semialgebraic structure of statistical models The second part illustrates important examples of tree models with hidden variables The book discusses the underlying models and related combinatorial concepts of phylogenetic trees as well as the local and global geometry of latent tree models It also extends previous results to Gaussian latent tree models This book shows you how both combinatorics and algebraic geometry enable a better understanding of latent tree models It contains many results on the geometry of the models including a detailed analysis of identifiability and the defining polynomial constraints      **Elements of Statistical Computing** R.A. Thisted, 2017-10-19 Statistics and computing share many close relationships Computing now permeates every aspect of statistics from pure description to the development of statistical theory At the same time the computational methods used in statistical work span much of computer science Elements of Statistical Computing covers the broad usage of computing in statistics It provides a comprehensive account of the most important computational statistics Included are discussions of numerical analysis numerical integration and smoothing The author give special attention to floating point standards and numerical analysis iterative methods for both linear and nonlinear equation such as Gauss Seidel method and successive over relaxation and computational methods for missing data such as the EM algorithm Also covered are new areas of interest such as the Kalman filter projection pursuit methods density estimation and other computer intensive techniques

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Number Theoretic Methods In Statistics**

In a world inundated with screens and the cacophony of quick connection, the profound power and mental resonance of verbal artistry usually disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, situated within the lyrical pages of **Number Theoretic Methods In Statistics**, a captivating perform of literary brilliance that impulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this mesmerizing opus courses visitors on an emotional odyssey, lightly exposing the latent possible and profound influence embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is central subjects, dissect their fascinating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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