Understanding Statistics Basic Theory And Practice

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in this book the author presents with elegance and precision some of the basic mathematical theory required for statistical inference at a level which will make it readable by most students of statistics

this book is intended for graduate instruction in subjects like econometrics economics environmental science social science and many other fields at the masters or phd levels it can be used as a textbook or as a reference guide it covers a wide range of topics related to tools used in cross sectional time series and panel data there are several aspects in which this book departs from traditional treatments the emphasis is on understanding the main issues concepts and methods in econometrics how to implement them and

interpret the results the mathematical aspects are kept to a minimum as the aim is to provide an intuitive understanding of how various parts fit together as opposed to a sophisticated mathematical treatment of the subject many examples and discussions are provided hence minimal mathematical pre requisites are needed extensive references are also provided to dig deeper into the mathematical aspects of the theories volume 1 deals with the main methods used for inference and hypothesis testing which are applicable to both time series and cross section data within a unified framework with special emphasis on how the conditions and methods differ for each it also includes a discussion of methods applicable only to a cross section of data usually a random sample and to panel data with a small time dimension cases with a large number of predictors are also covered

this is a two volume collection of seminal papers in the statistical sciences written during the past 100 years these papers have each had an outstanding influence on the development of statistical theory and practice over the last century each paper is preceded by an introduction written by an authority in the field providing background information and assessing its influence readers will enjoy a fresh outlook on now well established features of statistical techniques and philosophy by becoming acquainted with the ways they have been developed it is hoped that some readers will be stimulated to study some of the references provided in the introductions and also in the papers themselves and so attain a deeper background knowledge of the basis of their work

robust and nonparametric statistical methods have their foundation in fields ranging from agricultural science to astronomy from biomedical sciences to the public health disciplines and more recently in genomics bioinformatics and financial statistics these disciplines are presently nourished by data mining and high level computer based algorithms but to work actively with robust and nonparametric procedures practitioners need to understand their background explaining the underpinnings of robust methods and recent theoretical developments methodology in robust and nonparametric statistics provides a profound mathematically rigorous explanation of the methodology of robust and nonparametric statistical procedures thoroughly up to date this book presents multivariate robust and nonparametric estimation with special emphasis on affine equivariant procedures followed by hypotheses testing and confidence sets keeps mathematical abstractions at bay while remaining largely theoretical provides a pool of basic mathematical tools used throughout the book in derivations of main results the methodology presented with due emphasis on asymptotics and interrelations will pave the way for further developments on robust statistical procedures in more complex models using examples to illustrate the methods the text highlights applications in the fields of biomedical science bioinformatics finance and engineering in addition the authors provide exercises in the text

this book focuses on how to improve the quality management of official statistics in china official statistics help to build an overview of china s social and economic development and play an important role in policymaking for government as well as in decision making for enterprises because of the great value in reference the quality of official statistics also constitutes the concern from the public this book summarizes three levels for understanding the concept of the quality of official statistics and analyzes possible affections from social and economic environment political and management perspectives government statistical data is an important information reflecting china s economic and social development an important tool for party committees at all levels governments enterprises and the public to understand and grasp china s economic operation and social

development an important basis for party committees and governments at all levels to conduct economic and social management and decision making and an important reference for enterprises and the public to make decisions on production operation investment and consumption therefore the government enterprises and the public at all levels are demanding more and more government statistics accordingly the quality of government statistical data is becoming more and more important because it concerns the objectivity and accuracy of government statistical data the scientificity of economic and social management the decision making of party committees the correctness of production operation investment and consumption decisions of enterprises and the public therefore the quality of government statistical data is extremely important which is not only the focus of social concern but also the core issue of government statistics

probability and statistics theme is a component of encyclopedia of mathematical sciences in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the theme with contributions from distinguished experts in the field discusses probability and statistics probability is a standard mathematical concept to describe stochastic uncertainty probability and statistics can be considered as the two sides of a coin they consist of methods for modeling uncertainty and measuring real phenomena today many important political health and economic decisions are based on statistics this theme is structured in five main topics probability and statistics probability theory stochastic processes and random fields probabilistic models and methods foundations of statistics which are then expanded into multiple subtopics each as a chapter these three volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

a core statistics text that emphasizes logical inquiry not math basic statistics for social research teaches core general statistical concepts and methods that all social science majors must master to understand and do social research its use of mathematics and theory are deliberately limited as the authors focus on the use of concepts and tools of statistics in the analysis of social science data rather than on the mathematical and computational aspects research questions and applications are taken from a wide variety of subfields in sociology and each chapter is organized around one or more general ideas that are explained at its beginning and then applied in increasing detail in the body of the text each chapter contains instructive features to aid students in understanding and mastering the various statistical approaches presented in the book including learning objectives check quizzes after many sections and an answer key at the end of the chapter summary key terms end of chapter exercises spss exercises in select chapters ancillary materials for both the student and the instructor are available and include a test bank for instructors and downloadable video tutorials for students

modern survival analysis and more general event history analysis may be effectively handled within the mathematical framework of counting processes this book presents this theory which has been the subject of intense research activity over the past 15 years the exposition of the theory is integrated with careful presentation of many practical examples drawn almost exclusively from the authors own experience with detailed numerical and graphical illustrations although statistical models based on counting processes may be viewed as a research monograph for mathematical statisticians and biostatisticians almost all the methods are given in concrete detail for use in practice by other mathematically

oriented researchers studying event histories demographers econometricians epidemiologists actuarial mathematicians reliability engineers and biologists much of the material has so far only been available in the journal literature if at all and so a wide variety of researchers will find this an invaluable survey of the subject

brings together in a ready access encyclopedic format theories methods applications and historical background in the statistical sciences more than 4 000 entries by leading statisticians mathematicians educators and major figures in the development of statistics cover all principle subfields including probability theory statistical distribution theory computational methods sampling survey methods decision theory sequential analysis and multivariable analysis the book is also fully indexed

a balanced presentation of both theoretical and applied material with numerous problem sets to illustrate important concepts demonstrates the use of computers and calculators to facilitate problem solving as well as numerous applications to illustrate basic theory

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