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STATISTICAL TECHNIQUES IN BUSINESS & ECONOMICS

Accompanying CD-ROM contains ... "data files, Web links, practice quizzes, PowerPoint, video clips, software tutorials, MegaStat for Excel software and user manual."--Page 4 of cover.

STATISTICAL METHODS FOR THE EVALUATION OF EDUCATIONAL SERVICES AND QUALITY OF PRODUCTS

Springer Science & Business Media The book presents statistical methods and models that can usefully support the evaluation of educational services and quality of products. The contributions collected in this book summarize the work of several researchers from the universities of Bologna, Firenze, Napoli and Padova. The contributions are written with a consistent notation and a unified view, and concern methodological advances developed mostly with reference to specific problems of evaluation using real data sets. The evaluation of educational services, as well as the analysis of judgements and preferences, poses severe methodological challenges because of the presence of one or more of the following aspects: the observational (non experimental) nature of the context, which is associated with the well-known problems of selection bias and presence of nuisance factors; the hierarchical structure of the data, that entails correlated observations and consideration of effects at different levels of the hierarchy and their interactions (multilevel analysis); the multivariate and qualitative nature of the dependent variable, that requires the use of ad hoc statistical methodologies; the presence of non observable factors, e. g. the satisfaction, calling for the use of latent variables models; the simultaneous presence of components of pleasure and components of uncertainty in the explication of the judgments, that asks for the specification and estimation of mixture models. The first part of the book deals with latent variable models.

NUMERICAL METHODS AND STATISTICAL TECHNIQUES USING 'C'

Laxmi Publications

COMPREHENSIVE STATISTICAL METHODS

S. Chand Publishing □ For M.Com., MBA, MFC, MBE, M.A(Eco.),MCA, B.Com(H), B.Com(P),B.A.(H)Eco,BBA,BBS,BBE, B.A., etc. of all Indian Universities. Also for CA., ICWA, IAS, and other Equivalent Competitive Examinations. □ Presents a clear, simple, systematic and comprehensive exposition of the methods, principles and techniques of statistics in various disciplines with special reference of commerce, management, economics and business. □ A large number of solved (about 1500) problems and unsolved (nearly 3000) problems have been included to enable the user of statistical techniques and methods in commerce, economics, management and other related areas.

COMPUTER BASED NUMERICAL AND STATISTICAL TECHNIQUES

S. Chand Publishing Computer Based Numerical and Statistical Techniques has been written to provide fundamental introduction of numerical analysis for the students who take a course on Engineering Mathematics and for the students of computer science engineering. The book has been divided into 14 chapters covering all important aspects starting from high speed computation to Interpolation and Curve Fitting to Numerical Integration and Differentiation and finally focusing on Test of Significance

COMMON STATISTICAL METHODS FOR CLINICAL RESEARCH WITH SAS EXAMPLES, THIRD EDITION

SAS Institute Glenn Walker and Jack Shostak's Common Statistical Methods for Clinical Research with SAS Examples, Third Edition, is a thoroughly updated edition of the popular introductory statistics book for clinical researchers. This new edition has been extensively updated to include the use of ODS graphics in numerous examples as well as a new emphasis on PROC MIXED. Straightforward and easy to use as either a text or a reference, the book is full of practical examples from clinical research to illustrate both statistical and SAS methodology. Each example is worked out completely, step by step, from the raw data. Common Statistical Methods for Clinical Research with SAS Examples, Third Edition, is an applications book with minimal theory. Each section begins with an overview helpful to nonstatisticians and then drills down into details that will be valuable to statistical analysts and programmers. Further details, as well as bonus information and a guide to further reading, are presented in the extensive appendices. This text is a one-source guide for statisticians that documents the use of the tests used most often in clinical research, with assumptions, details, and some tricks--all in one place. This book is part of the SAS Press program.

APPLYING CONTEMPORARY STATISTICAL TECHNIQUES

Gulf Professional Publishing Applying Contemporary Statistical Techniques explains why traditional statistical methods are often inadequate or outdated when applied to modern problems. Wilcox demonstrates how new and more powerful techniques address these problems far more effectively, making these modern robust methods understandable, practical, and easily accessible. Highlights: * Assumes no previous training in statistics * Explains when and why modern methods provide more accurate results * Provides simple descriptions of when and why conventional methods can be highly unsatisfactory * Covers the latest developments on multiple comparisons * Includes recent advances in risk-based methods * Features many illustrations and examples using data from real studies * Describes and illustrates easy-to-use s-plus functions for applying cutting-edge techniques "The book is quite unique in that it offers a lot of up-to-date statistical tools. No other book at this level comes close in this aspect." Xuming He -University of Illinois, Urbana

EBOOK: QUANTITATIVE BUSINESS ANALYSIS

McGraw Hill Ebook: Quantitative Business Analysis

COMPUTER BASED NUMERICAL & STATISTICAL TECHNIQUES

Firewall Media

MULTIVARIATE STATISTICAL METHODS IN BEHAVIORAL RESEARCH

Scientific Software International

UNIFIED STATISTICAL METHODS

Ram Prasad Publications(R.P.H.) STATISTICS, MATHEMATICS, RAM PRASAD, RP UNIFIED, RPP, M. RAY, H.S. SHARMA, UN, SINGH

COMPUTER ORIENTED STATISTICAL METHODS FOR B.B.A

Krishna Prakashan Media

STATISTICAL METHODS, STUDENTS SOLUTIONS MANUAL (E-ONLY)

Academic Press Statistical Methods, Students Solutions Manual (e-only)

NUMERICAL ANALYSIS & STATISTICAL METHODS

Academic Publishers

CHAOS AND STATISTICAL METHODS

PROCEEDINGS OF THE SIXTH KYOTO SUMMER INSTITUTE, KYOTO, JAPAN SEPTEMBER 12-15, 1983

Springer Science & Business Media The 6th Kyoto Summer Institute devoted to "Chaos and Statistical Mechanics" was held from September 12 to 15, 1983, at the Research Institute for Mathematical Sciences, Kyoto University, and at Hotel Kuniso. The meeting was aimed at clarifying various aspects of chaotic systems appearing in different scientific disciplines, critically examining related mathematical methods developed so far, thus preparing for possible breakthroughs, among others, for the opening of a new period of statistical mechanics of deterministic systems. The number of participants was 135, of which 24 were from abroad. We believe that the well-prepared lecture of each speaker and lively discussions among many participants from various research fields led the meeting to a successful conclusion. The 6th KSI was organized by the Research Institute for Fundamental Physics. A number of young chaos researchers in Japan also participated actively in the organization. We were also in close contact with the organizer of the IUTAM Symposium on "Turbulence and Chaotic Phenomena in Fluids" (Kyoto Kaikan Conference Hall, Kyoto, September 5-10 1983). This volume contains most of the lectures presented at the 6th KSI. We are very grateful to all the authors for their efforts in preparing such excellent manuscripts. The 6th KSI was supported by the Ministry of Education, Science and Culture and the Yamada Science Foundation. The organizing committee acknowledges gratefully their generous financial support. Finally, thanks are due to Dr. M. Toya and Miss T. Sumide for their invaluable assistance.

AN INTRODUCTION TO STATISTICAL METHODS AND DATA ANALYSIS

Cengage Learning Ott and Longnecker's AN INTRODUCTION TO STATISTICAL METHODS AND DATA ANALYSIS, Sixth Edition, provides a broad overview of statistical methods for advanced undergraduate and graduate students from a variety of disciplines who have little or no prior course work in statistics. The authors teach students to solve problems encountered in research projects, to make decisions based on data in general settings both within and beyond the university setting, and to become critical readers of statistical analyses in research papers and in news reports. The first eleven chapters present material typically covered in an introductory statistics course, as well as case studies and examples that are often encountered in undergraduate capstone courses. The remaining chapters cover regression modeling and design of experiments. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

COMPUTER ORIENTED STATISTICAL METHODS (FOR CSE/IT) (SEMESTER III) JNTU

S. Chand Publishing Computer Oriented Statistical Methods has been written strictly according to the revised syllabus (R-18) of B.Tech. Second year (I Semester) students of Jawaharlal Nehru Technological University, Hyderabad with effect from 2018-19 academic year

STATISTICAL METHODS FOR THE EVALUATION OF UNIVERSITY SYSTEMS

Springer Science & Business Media This book presents a collection of statistical methods and procedures to assess data coming from educational systems. The topics examined include: statistical methods for constructing composite indicators, applied measurements, assessment of educational systems, measurement of the performance of the students at Italian universities, and statistical modeling for questionnaire data. Other issues are the implications of introducing different assessment criteria and procedures to the Italian university system.

COMPUTATIONAL AND STATISTICAL METHODS IN INTELLIGENT SYSTEMS

Springer This book presents real-world problems and pioneering research in computational statistics, mathematical modeling, artificial intelligence and software engineering in the context of intelligent systems. It gathers the peer-reviewed proceedings of the 2nd Computational Methods in Systems and Software 2018 (CoMeSySo 2018), a conference that broke down traditional barriers by being held online. The goal of the event was to provide an international forum for discussing the latest high-quality research results.

STATISTICAL TECHNIQUES FOR PROJECT CONTROL

CRC Press Winner of the IIE Book of the Month for June 2012 A project can be simple or complex. In each case, proven project management processes must be followed. In all cases

of project management implementation, control must be exercised in order to assure that project objectives are achieved. **Statistical Techniques for Project Control** seamlessly integrates qualitative and quantitative tools and techniques for project control. It fills the void that exists in the application of statistical techniques to project control. The book begins by defining the fundamentals of project management then explores how to temper quantitative analysis with qualitative human judgment that makes project control nebulous but also offers opportunities to innovate and be creative in achieving control. The authors then discuss the three factors (time, budget, and performance) that form the basis of the operating characteristics of a project that also help determine the basis for project control. They then focus on computational network techniques for project schedule (time) control. Although designed as a practical guide for project management professionals, the book also appeals to students, researchers, and instructors.

KIRSHNA'S DESCRIPTIVE STATISTICS: (STATISTICAL METHODS)

Krishna Prakashan Media

STATISTICAL METHODS IN BIOINFORMATICS

AN INTRODUCTION

Springer Science & Business Media Advances in computers and biotechnology have had a profound impact on biomedical research, and as a result complex data sets can now be generated to address extremely complex biological questions. Correspondingly, advances in the statistical methods necessary to analyze such data are following closely behind the advances in data generation methods. The statistical methods required by bioinformatics present many new and difficult problems for the research community. This book provides an introduction to some of these new methods. The main biological topics treated include sequence analysis, BLAST, microarray analysis, gene finding, and the analysis of evolutionary processes. The main statistical techniques covered include hypothesis testing and estimation, Poisson processes, Markov models and Hidden Markov models, and multiple testing methods. The second edition features new chapters on microarray analysis and on statistical inference, including a discussion of ANOVA, and discussions of the statistical theory of motifs and methods based on the hypergeometric distribution. Much material has been clarified and reorganized. The book is written so as to appeal to biologists and computer scientists who wish to know more about the statistical methods of the field, as well as to trained statisticians who wish to become involved with bioinformatics. The earlier chapters introduce the concepts of probability and statistics at an elementary level, but with an emphasis on material relevant to later chapters and often not covered in standard introductory texts. Later chapters should be immediately accessible to the trained statistician. Sufficient mathematical background consists of introductory courses in calculus and linear algebra. The basic biological concepts that are used are explained, or can be understood from the context, and standard mathematical concepts are summarized in an Appendix. Problems are provided at the end of each chapter allowing the reader to develop aspects of the theory outlined in the main text. Warren J. Ewens holds the Christopher H. Brown Distinguished Professorship at the University of Pennsylvania. He is the author of two books, *Population Genetics* and *Mathematical Population Genetics*. He is a senior editor of *Annals of Human Genetics* and has served on the editorial boards of *Theoretical Population Biology*, *GENETICS*, *Proceedings of the Royal Society B* and *SIAM Journal in Mathematical Biology*. He is a fellow of the Royal Society and the Australian Academy of Science. Gregory R. Grant is a senior bioinformatics researcher in the University of Pennsylvania Computational Biology and Informatics Laboratory. He obtained his Ph.D. in number theory from the University of Maryland in 1995 and his Masters in Computer Science from the University of Pennsylvania in 1999. Comments on the first edition: "This book would be an ideal text for a postgraduate course...[and] is equally well suited to individual study.... I would recommend the book highly." (*Biometrics*) "Ewens and Grant have given us a very welcome introduction to what is behind those pretty [graphical user] interfaces." (*Naturwissenschaften*) "The authors do an excellent job of presenting the essence of the material without getting bogged down in mathematical details." (*Journal American Statistical Association*) "The authors have restructured classical material to a great extent and the new organization of the different topics is one of the outstanding services of the book." (*Metrika*)

STATISTICAL METHODS FOR ENGINEERING AND SCIENCES

I. K. International Pvt Ltd The present book is meant for the first-year students of various universities. Engineering educationists feel that first-year students of all disciplines must have an elementary and general idea about various branches of electronics. Spread in sixteen chapters, the book broadly discusses.

IMPLEMENTING SIX SIGMA

SMARTER SOLUTIONS USING STATISTICAL METHODS

John Wiley & Sons Includes new and expanded coverage of Six Sigma infrastructure building and benchmarking. Provides plans, checklists, metrics, and pitfalls.

GEOMETRICAL AND STATISTICAL METHODS OF ANALYSIS OF STAR CONFIGURATIONS DATING PTOLEMY'S ALMAGEST

CRC Press This easy-to-follow book offers a statistico-geometrical approach for dating ancient star catalogs. The authors' scientific methods reveal statistical properties of ancient catalogs and overcome the difficulties of their dating originated by the low accuracy of these catalogs. Methods are tested on reliably dated medieval star catalogs and applied to the star catalog of the Almagest. Here, the dating of Ptolemy's famous star catalog is reconsidered and recalculated using modern mathematical techniques. The text provides necessary information from astronomy and astrometry. It also covers the history of observational equipment and methods for measuring coordinates of stars. Many chapters are devoted to the Almagest, from a preliminary analysis to a global statistical processing of the catalog and its basic parts. Mathematics are simplified in this book for easy reading. This book will prove invaluable for mathematicians, astronomers, astrophysicists, specialists in natural sciences, historians interested in mathematical and statistical methods, and second-year mathematics students. Features:

STATISTICAL METHODS FOR RELIABILITY DATA

John Wiley & Sons An authoritative guide to the most recent advances in statistical methods for quantifying reliability Statistical Methods for Reliability Data, Second Edition (SMRD2) is an essential guide to the most widely used and recently developed statistical methods for reliability data analysis and reliability test planning. Written by three experts in the area, SMRD2 updates and extends the long-established statistical techniques and shows how to apply powerful graphical, numerical, and simulation-based methods to a range of applications in reliability. SMRD2 is a comprehensive resource that describes maximum likelihood and Bayesian methods for solving practical problems that arise in product reliability and similar areas of application. SMRD2 illustrates methods with numerous applications and all the data sets are available on the book's website. Also, SMRD2 contains an extensive collection of exercises that will enhance its use as a course textbook. The SMRD2's website contains valuable resources, including R packages, Stan model codes, presentation slides, technical notes, information about commercial software for reliability data analysis, and csv files for the 93 data sets used in the book's examples and exercises. The importance of statistical methods in the area of engineering reliability continues to grow and SMRD2 offers an updated guide for, exploring, modeling, and drawing conclusions from reliability data. SMRD2 features: Contains a wealth of information on modern methods and techniques for reliability data analysis Offers discussions on the practical problem-solving power of various Bayesian inference methods Provides examples of Bayesian data analysis performed using the R interface to the Stan system based on Stan models that are available on the book's website Includes helpful technical-problem and data-analysis exercise sets at the end of every chapter Presents illustrative computer graphics that highlight data, results of analyses, and technical concepts Written for engineers and statisticians in industry and academia, Statistical Methods for Reliability Data, Second Edition offers an authoritative guide to this important topic.

MATHEMATICAL AND STATISTICAL METHODS IN FOOD SCIENCE AND TECHNOLOGY

John Wiley & Sons Mathematical and Statistical Approaches in Food Science and Technology offers an accessible guide to applying statistical and mathematical technologies in the food science field whilst also addressing the theoretical foundations. Using clear examples and case-studies by way of practical illustration, the book is more than just a theoretical guide for non-statisticians, and may therefore be used by scientists, students and food industry professionals at different levels and with varying degrees of statistical skill.

STATISTICAL METHODS IN THE ATMOSPHERIC SCIENCES

Academic Press Statistical Methods in the Atmospheric Sciences, Third Edition, explains the latest statistical methods used to describe, analyze, test, and forecast atmospheric data. This revised and expanded text is intended to help students understand and communicate what their data sets have to say, or to make sense of the scientific literature in meteorology, climatology, and related disciplines. In this new edition, what was a single chapter on multivariate statistics has been expanded to a full six chapters on this important topic. Other chapters have also been revised and cover exploratory data analysis, probability distributions, hypothesis testing, statistical weather forecasting, forecast verification, and time series analysis. There is now an expanded treatment of resampling tests and key analysis techniques, an updated discussion on ensemble forecasting, and a detailed

chapter on forecast verification. In addition, the book includes new sections on maximum likelihood and on statistical simulation and contains current references to original research. Students will benefit from pedagogical features including worked examples, end-of-chapter exercises with separate solutions, and numerous illustrations and equations. This book will be of interest to researchers and students in the atmospheric sciences, including meteorology, climatology, and other geophysical disciplines. Accessible presentation and explanation of techniques for atmospheric data summarization, analysis, testing and forecasting Many worked examples End-of-chapter exercises, with answers provided

STATISTICAL METHODS FOR HEALTH CARE RESEARCH

Lippincott Williams & Wilkins Focusing on the statistical methods most frequently used in the health care literature and featuring numerous charts, graphs, and up-to-date examples from the literature, this text provides a thorough foundation for the statistics portion of nursing and all health care research courses. All Fifth Edition chapters include new examples and new computer printouts using the latest software, SPSS for Windows, Version 12. New material on regression diagnostics has been added.

STATISTICAL METHODS FOR PSYCHOLOGY

Cengage Learning STATISTICAL METHODS FOR PSYCHOLOGY surveys the statistical techniques commonly used in the behavioral and social sciences, particularly psychology and education. To help students gain a better understanding of the specific statistical hypothesis tests that are covered throughout the text, author David Howell emphasizes conceptual understanding. This Eighth Edition continues to focus students on two key themes that are the cornerstones of this book's success: the importance of looking at the data before beginning a hypothesis test, and the importance of knowing the relationship between the statistical test in use and the theoretical questions being asked by the experiment. New and expanded topics--reflecting the evolving realm of statistical methods--include effect size, meta-analysis, and treatment of missing data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

STATISTICAL METHODS FOR QUALITY IMPROVEMENT

John Wiley & Sons Praise for the Second Edition "As a comprehensive statistics reference book for quality improvement, it certainly is one of the best books available."
 —Technometrics This new edition continues to provide the most current, proven statistical methods for quality control and quality improvement The use of quantitative methods offers numerous benefits in the fields of industry and business, both through identifying existing trouble spots and alerting management and technical personnel to potential problems. Statistical Methods for Quality Improvement, Third Edition guides readers through a broad range of tools and techniques that make it possible to quickly identify and resolve both current and potential trouble spots within almost any manufacturing or nonmanufacturing process. The book provides detailed coverage of the application of control charts, while also exploring critical topics such as regression, design of experiments, and Taguchi methods. In this new edition, the author continues to explain how to combine the many statistical methods explored in the book in order to optimize quality control and improvement. The book has been thoroughly revised and updated to reflect the latest research and practices in statistical methods and quality control, and new features include: Updated coverage of control charts, with newly added tools The latest research on the monitoring of linear profiles and other types of profiles Sections on generalized likelihood ratio charts and the effects of parameter estimation on the properties of CUSUM and EWMA procedures New discussions on design of experiments that include conditional effects and fraction of design space plots New material on Lean Six Sigma and Six Sigma programs and training Incorporating the latest software applications, the author has added coverage on how to use Minitab software to obtain probability limits for attribute charts. new exercises have been added throughout the book, allowing readers to put the latest statistical methods into practice. Updated references are also provided, shedding light on the current literature and providing resources for further study of the topic. Statistical Methods for Quality Improvement, Third Edition is an excellent book for courses on quality control and design of experiments at the upper-undergraduate and graduate levels. the book also serves as a valuable reference for practicing statisticians, engineers, and physical scientists interested in statistical quality improvement.

STATISTICAL METHODS FOR RATES AND PROPORTIONS

Wiley-Interscience An introduction to applied probability; Assessing significance in a fourfold table; Determining sample sizes needed to detect a difference between two proportions; How to randomize; Sampling method; The analysis of data from matched samples; The comparison of proportions from several independent samples; Combining evidence from fourfold tables; The effects of misclassification errors; The control of misclassification error; The measurement of interrater agreement; The standardization of rates.

CHEMOMETRICS IN ENVIRONMENTAL CHEMISTRY - APPLICATIONS

Springer Pattern recognition and other chemometrical techniques are important tools in interpreting environmental data. This volume presents authoritatively state-of-the-art applications of measuring and handling environmental data. The chapters are written by leading experts.

STATISTICAL METHODS IN RADIATION PHYSICS

John Wiley & Sons This statistics textbook, with particular emphasis on radiation protection and dosimetry, deals with statistical solutions to problems inherent in health physics measurements and decision making. The authors begin with a description of our current understanding of the statistical nature of physical processes at the atomic level, including radioactive decay and interactions of radiation with matter. Examples are taken from problems encountered in health physics, and the material is presented such that health physicists and most other nuclear professionals will more readily understand the application of statistical principles in the familiar context of the examples. Problems are presented at the end of each chapter, with solutions to selected problems provided online. In addition, numerous worked examples are included throughout the text.

STATISTICAL METHODS IN HYDROLOGY AND HYDROCLIMATOLOGY

Springer Nature This second edition focuses on the application of statistical methods in the field of hydrology and hydroclimatology. Among the latest theories being used in these fields, the book introduces the theory of copulas and its applications in this context. The purpose is to develop an understanding and illustrate the usefulness of the statistical techniques with detailed theory and numerous worked out examples. Apart from this, sample scripts based on MATLAB, Python and R for some examples are also provided to assist the readers to handle real life data. Besides serving as a textbook for graduate courses on stochastic modeling in hydrology and related disciplines, the book offers a valuable resource for researchers and professionals involved in the field of hydrology and climatology.

ROBUSTNESS OF STATISTICAL METHODS AND NONPARAMETRIC STATISTICS

Springer Science & Business Media This volume contains most of the invited and contributed papers presented at the Conference on Robustness of Statistical Methods and Nonparametric Statistics held in the castle of Schwerin, May 29 - June 4 1983. This conference was organized by the Mathematical Society of the GDR in cooperation with the Society of Physical and Mathematical Biology of the GDR, the GDR-Region of the International Biometric Society and the Academy of Agricultural Sciences of the GDR. All papers included were thoroughly reviewed by scientist listed under the heading "Editorial Collaborators". Some contributions, we are sorry to report, were not recommended for publication by the reviewers and do not appear in these proceedings. The editors thank the reviewers for their valuable comments and suggestions. The conference was organized by a Programme Committee, its chairman was Prof. Dr. Dieter Rasch (Research Centre of Animal Production, Dummerstorf-Rostock). The members of the Programme Committee were Prof. Dr. Johannes Adam (Martin-Luther-University Halle) Prof. Dr. Heinz Ahrens (Academy of Sciences of the GDR, Berlin) Doz. Dr. Jana Jureckova (Charles University Praha) Prof. Dr. Moti Lal Tiku (McMaster University, Hamilton, Ontario) The aim of the conference was to discuss several aspects of robustness but mainly to present new results regarding the robustness of classical statistical methods especially tests, confidence estimations, and selection procedures, and to compare their performance with nonparametric procedures. Robustness in this sense is understood as insensitivity against violation of the normal assumption.

AN INTRODUCTION TO STATISTICAL METHODS AND DATA ANALYSIS

Cengage Learning Ott and Longnecker's AN INTRODUCTION TO STATISTICAL METHODS AND DATA ANALYSIS, 6th Edition, International Edition provides a broad overview of statistical methods for advanced undergraduate and graduate students from a variety of disciplines who have little or no prior course work in statistics. The authors teach students to solve problems encountered in research projects, to make decisions based on data in general settings both within and beyond the university setting, and to become critical readers of statistical analyses in research papers and in news reports. The first eleven chapters present material typically covered in an introductory statistics course, as well as case studies and examples that are often encountered in undergraduate capstone courses. The remaining chapters cover regression modeling and design of experiments.

USING STATISTICAL METHODS FOR WATER QUALITY MANAGEMENT

ISSUES, PROBLEMS AND SOLUTIONS

John Wiley & Sons STATISTICS IN PRACTICE A practical exploration of alternative approaches to analyzing water-related environmental issues. Written by an experienced environmentalist and recognized expert in the field, this text is designed to help water resource managers and scientists to formulate, implement, and interpret more effective methods of water quality management. After presenting the basic foundation for using statistical methods in water resource management, including the use of appropriate hypothesis test procedures and some rapid calculation procedures, the author offers a range of practical problems and solutions on environmental topics that often arise, but are not generally covered. These include: * Formulating water quality standards * Determining compliance with standards * MPNs and microbiology * Water-related, human health risk modeling * Trends, impacts, concordance, and detection limits. In order to promote awareness of alternative approaches to analyzing data, both frequentist and Bayesian, statistical methods are contrasted in terms of their applicability to various environmental issues. Each chapter ends with a number of set problems for which full answers are provided. The book also encourages discussion between technical staff and management before embarking on statistical studies.

STATISTICAL TECHNIQUES BASED ON PROBABILISTIC MODELS

ADVANCES IN MULTIVARIATE STATISTICAL METHODS

World Scientific This volume contains a collection of research articles on multivariate statistical methods, encompassing both theoretical advances and emerging applications in a variety of scientific disciplines. It serves as a tribute to Professor S N Roy, an eminent statistician who has made seminal contributions to the area of multivariate statistical methods, on his birth centenary. In the area of emerging applications, the topics include bioinformatics, categorical data and clinical trials, econometrics, longitudinal data analysis, microarray data analysis, sample surveys, statistical process control, etc. Researchers, professionals and advanced graduates will find the book an essential resource for modern developments in theory as well as for innovative and emerging important applications in the area of multivariate statistical methods.