

# STATISTICAL METHODS FOR ENVIRONMENTAL POLLUTION MONITORING



**RICHARD O. GILBERT**

# Statistical Methods For Environmental Pollution Monitoring

**Shin' ichi Okamoto, Nguyen Thi Kim Oanh**



## **Statistical Methods For Environmental Pollution Monitoring:**

*Statistical Methods for Environmental Pollution Monitoring* Richard O. Gilbert, 1987-02-15 This book discusses a broad range of statistical design and analysis methods that are particularly well suited to pollution data It explains key statistical techniques in easy to comprehend terms and uses practical examples exercises and case studies to illustrate procedures Dr Gilbert begins by discussing a space time framework for sampling pollutants He then shows how to use statistical sample survey methods to estimate average and total amounts of pollutants in the environment and how to determine the number of field samples and measurements to collect for this purpose Then a broad range of statistical analysis methods are described and illustrated These include determining the number of samples needed to find hot spots analyzing pollution data that are lognormally distributed testing for trends over time or space estimating the magnitude of trends comparing pollution data from two or more populations New areas discussed in this sourcebook include statistical techniques for data that are correlated reported as less than the measurement detection limit or obtained from field composited samples Nonparametric statistical analysis methods are emphasized since parametric procedures are often not appropriate for pollution data This book also provides an illustrated comprehensive computer code for nonparametric trend detection and estimation analyses as well as nineteen statistical tables to permit easy application of the discussed statistical techniques In addition many publications are cited that deal with the design of pollution studies and the statistical analysis of pollution data This sourcebook will be a useful tool for applied statisticians ecologists radioecologists hydrologists biologists environmental engineers and other professionals who deal with the collection analysis and interpretation of pollution in air water and soil

**Statistical Methods for Environmental Pollution Monitoring** ,1987 The application of statistics to environmental pollution monitoring studies requires a knowledge of statistical analysis methods particularly well suited to pollution data This book fills that need by providing sampling plans statistical tests parameter estimation procedure techniques and references to pertinent publications Most of the statistical techniques are relatively simple and examples exercises and case studies are provided to illustrate procedures The book is logically divided into three parts Chapters 1 2 and 3 are introductory chapters Chapters 4 through 10 discuss field sampling designs and Chapters 11 through 18 deal with a broad range of statistical analysis procedures Some statistical techniques given here are not commonly seen in statistics book For example see methods for handling correlated data Sections 4 5 and 11 12 for detecting hot spots Chapter 10 and for estimating a confidence interval for the mean of a lognormal distribution Section 13 2 Also Appendix B lists a computer code that estimates and tests for trends over time at one or more monitoring stations using nonparametric methods Chapters 16 and 17 Unfortunately some important topics could not be included because of their complexity and the need to limit the length of the book For example only brief mention could be made of time series analysis using Box Jenkins methods and of kriging techniques for estimating spatial and spatial time patterns of pollution although multiple references on these topics

are provided Also no discussion of methods for assessing risks from environmental pollution could be included *Statistical Methods for Detection and Quantification of Environmental Contamination* Robert D. Gibbons, David E. Coleman, 2001-07-13 Amstat News asked three review editors to rate their top five favorite books in the September 2003 issue *Statistical Methods for Detection and Quantification of Environmental Contamination* was among those chosen This groundbreaking volume describes the statistical theory that underlies the detection and quantification of environmental pollution both in the laboratory and in the field It presents the foundation of relating measured concentrations to true concentrations and the development of intervals of uncertainty for true concentrations and it presents a comprehensive review of the problem of estimating thresholds at which detection and quantification decisions can be made reliably The authors demonstrate the use of analytical measurements in making environmental impact decisions and in comparing environmental data to regulatory standards and naturally occurring background concentrations Taking the next step in a major evolution in the way environmental impact decisions are made *Statistical Methods for Detection and Quantification of Environmental Contamination* Presents statistical methods that allow the earliest possible detection and quantification of contaminants Describes procedures applicable to all environmental constituents Covers numerous state of the art approaches Includes case studies demonstrating practical applications of these approaches An indispensable handbook for scientists and engineers involved in environmental monitoring programs this book is also an important resource for public health officials waste facility managers regulators statisticians and analytical chemists

**Statistical Methods for Groundwater Monitoring**  
Robert D. Gibbons, Dulal K. Bhaumik, Subhash Aryal, 2009-10-08 A new edition of the most comprehensive overview of statistical methods for environmental monitoring applications Thoroughly updated to provide current research findings *Statistical Methods for Groundwater Monitoring Second Edition* continues to provide a comprehensive overview and accessible treatment of the statistical methods that are useful in the analysis of environmental data This new edition expands focus on statistical comparison to regulatory standards that are a vital part of assessment compliance and corrective action monitoring in the environmental sciences The book explores quantitative concepts useful for surface water monitoring as well as soil and air monitoring applications while also maintaining a focus on the analysis of groundwater monitoring data in order to detect environmental impacts from a variety of sources such as industrial activity and waste disposal The authors introduce the statistical properties of alternative approaches such as false positive and false negative rates that are associated with each test and the factors related to these error rates The Second Edition also features An introduction to Intra laboratory Calibration Curves and random effects regression models for non constant measurement variability Coverage of statistical prediction limits for a gamma distributed random variable with a focus on estimation and testing of parameters in environmental monitoring applications A unified treatment of censored data with the computation of statistical prediction tolerance and control limits Expanded coverage of statistical issues related to laboratory practice such as

detection and quantitation limits An updated chapter on regulatory issues that outlines common mistakes to avoid in groundwater monitoring applications as well as an introduction to the newest regulations for both hazardous and municipal solid waste facilities Each chapter provides a general overview of a problem followed by statistical derivation of the solution and a relevant example complete with computational details that allow readers to perform routine application of the statistical results Relevant issues are highlighted throughout and recommendations are also provided for specific problems based on characteristics such as number of monitoring wells number of constituents distributional form of measurements and detection frequency **Statistical Methods for Groundwater Monitoring** Second Edition is an excellent supplement to courses on environmental statistics at the upper undergraduate and graduate levels It is also a valuable resource for researchers and practitioners in the fields of biostatistics engineering and the environmental sciences who work with statistical methods in their everyday work

**Statistical Methods for the Environmental Sciences** A.H. El-Shaarawi, 2012-12-06 A Selection of Papers Presented at the Conference on Environmetrics held in Cairo Egypt April 4 7 1989

**Statistical Methods for the Assessment of Point Source Pollution** D.T. Chapman, A.H. El-Shaarawi, 1989-12-31 This book contains the proceedings of a workshop Statistical Methods for the Assessment of Point Source Pollution held September 12 14 1988 at the Canada Centre for Inland Waters in Burlington Ontario Canada The objectives of the workshop were to advance the art science and application of statistical methods to current water quality issues by stimulating discussions and disseminating ideas and information The emphasis was on statistical problems associated with monitoring and controlling discharges from industries and municipalities and assessing the impact of these discharges on receiving water quality b provide a forum for managers engineers scientists and statisticians to present and discuss techniques for evaluating water quality data and planning monitoring activities c provide a published state of the art summary of the application of statistical methods for the assessment of point source discharges and their impact on water quality The papers contained in this volume cover a number of topics that are of concern not only for monitoring and assessing point source pollution but also for other environmental problems

**Statistical Methods for Detection and Quantification of Environmental Contamination** Robert D. Gibbons, 2001-11-08 An indispensable handbook for scientists and engineers involved in environmental monitoring programs this book is also an important resource for public health officials waste facility managers regulators statisticians and analytical chemists

**Statistical Procedures for Analysis of Environmental Monitoring Data and Risk Assessment** Edward A. McBean, Frank A. Rovers, 1998 For students and professionals in environmental civil and mechanical engineering few tasks are as challenging as statistical analysis and interpretation In this book two leaders in the field address these challenges head on They introduce each leading statistical analysis technique downplaying mathematical notation in favor of sample environmental applications and explanations that make sense to non statisticians They also address common problems in data interpretation small data sets the need to correlate constituents to infill missing data or

identify outliers creating early warning systems with fewer false positives handling noise and assessing risk Coverage includes Characterizing environmental quality data with Normal Lognormal and other distributions Characterizing coincident behavior using regression correlation and multiple regression Multiple comparisons using ANOVA and associated parametric analysis techniques Testing differences between monitoring records when censored data records exist Focuses on real world situations where data sets may be imperfect Reflecting decades of experience in the field the authors also show how to use statistical analysis as the input to realistic risk assessment In particular they demonstrate simulation procedures for risk characterization using sampling methodologies from probability distributions of data Whether you are concerned with issues of air quality surface water groundwater or soil contamination the techniques covered in this book will be invaluable

**Statistical Methods for the Environmental Sciences** A. H. El-Sharaawi, 1991 *Regional Ground-Water Quality*  
William M. Alley, 1993-06-15 Ground water serves as the main source of drinking water for 50% of the United States as a whole and for 97% of rural populations in particular In addition to public concern with point sources of contamination such as landfills and hazardous waste disposal sites current attention has now come to focus on the overall quality of ground water resources *Regional Ground Water Quality* offers the first detailed guidance for conducting ground water quality investigations in a regional context This exceptional volume combines hydrogeologic and geochemical principles as well as statistical principles within a unique conceptual framework that helps readers produce efficient meaningful and successful ground water assessments *Regional Ground Water Quality* will be a valuable resource when first approaching a regional scale study and when designing specific regional scale studies Throughout the book topics emphasize the value of studying regional ground water quality at multiple spatial and temporal scales Up to date coverage of essential processes and methodologies includes multi scale design concepts for regional ground water quality studies the fate and transport of organic and inorganic materials including nitrates pesticides pathogens acid precipitation natural radionuclides saltwater intrusion and problems in karst aquifers basic concepts of organic and inorganic chemistry a review of environmental isotopes and geochemical modeling statistical concepts for ground water quality surveys and geostatistical analysis the effects of surface water ground water interactions on ground water quality the relationship between ground water quality and land use regional geochemistry principles Readers will be brought completely up to date with the latest research in ground water assessments such as novel methods for dating young ground water including the use of CFCs tritium helium 3 and krypton 85 The book also examines the uses of organic compounds as time and source markers ground water vulnerability analyses applications of subsurface microbiology at the regional scale and design of well water surveys Invaluable case studies drawn from international projects graphically demonstrate concepts discussed in the book These case studies describe successful regional ground water assessment efforts conducted in various areas and include a look at the uses and limitations of existing ground water quality data A first of its kind resource *Regional Ground Water Quality* will be

essential reading for scientists and engineers in hydrology water resources agricultural sciences and environmental sciences It will also be of interest to engineers and R D personnel in government industry and private consulting as well as to professionals involved with the design and interpretation of studies **Site Assessment and Remediation Handbook** Martin N. Sara,2003-06-27 Completely revised and updated the Second Edition of Site Assessment and Remediation Handbook provides coverage of new procedures and technologies for an expanded range of site investigations With over 700 figures tables and flow charts the handbook is a comprehensive resource for engineers geologists and hydrologists conducting site investi **Environmental Statistics and Data Analysis** Wayne R. Ott,2018-12-13 This easy to understand introduction emphasizes the areas of probability theory and statistics that are important in environmental monitoring data analysis research environmental field surveys and environmental decision making It communicates basic statistical theory with very little abstract mathematical notation but without omitting importa **Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination** J. Russell Boulding,Jon S. Ginn,2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev **Statistics in Environmental Monitoring and Assessment** Shin' ichi Okamoto,Nguyen Thi Kim Oanh,2026-01-22 Statistics in Environmental Monitoring and Assessment details how statistics plays an essential role in every step of an environmental monitoring and assessment program from the sampling design to the data management and data analysis methods that are used to extract meaningful information for environmental quality management Large temporal and spatial variations of the environmental variables present a great challenge for producing a representative characterisation of the status of any given environmental media water air biota or solid This book explains these issues in an easy to understand manner and illustrates using actual applications in real life case studies Each case study comes with a clear explanation for every related fundamental concept and methodology that details the statistical methods used in the analysis and considerations taken when using a particular method Primarily intended for graduate students in environmental sciences who wish to use statistics as a research tool it will also benefit researchers who are interested in applications of statistical methods for designing environmental monitoring programs and analysis of environmental data to assess the status of various environmental matrices This book is organised in three parts with Part I providing a review of the basics of statistics Part II focusing on sampling designs and Part III focusing on applications of statistical methods for data analysis Key Features Contains real life case studies Includes practical statistical designs for environmental sampling Analyses monitoring data for environmental assessment Comprehensively explains theoretical parts related to the statistical analysis methods **Environmental Statistics** Vic Barnett,2005-12-13 In modern society we are ever more aware of the environmental issues we face whether these relate to global warming depletion of rivers and oceans

despoliation of forests pollution of land poor air quality environmental health issues etc At the most fundamental level it is necessary to monitor what is happening in the environment collecting data to describe the changing scene More importantly it is crucial to formally describe the environment with sound and validated models and to analyse and interpret the data we obtain in order to take action Environmental Statistics provides a broad overview of the statistical methodology used in the study of the environment written in an accessible style by a leading authority on the subject It serves as both a textbook for students of environmental statistics as well as a comprehensive source of reference for anyone working in statistical investigation of environmental issues Provides broad coverage of the methodology used in the statistical investigation of environmental issues Covers a wide range of key topics including sampling methods for extreme data outliers and robustness relationship models and methods time series spatial analysis and environmental standards Includes many detailed practical and worked examples that illustrate the applications of statistical methods in environmental issues Authored by a leading authority on environmental statistics

**Statistical Methods for Groundwater Monitoring** Robert D. Gibbons,1994-08-02 This book explains the statistical methods used to analyze the huge volume of data that groundwater monitoring wells produce in a comprehensive manner accessible to engineers and scientists who may not have a strong background in statistics In addition the book provides statistical methods to make the most accurate use of the data and shows how to set up an effective monitoring system

Monitoring and Early Warning Technologies on Karst Lands Xiaozhen Jiang,Mingtang Lei,Wanfang Zhou,Fubiao Zhou,Xiao Ma,Jianling Dai,Zongyuan Pan,2024-06-19 This book compiles a broad range of monitoring and early warning technologies focused on high resolution in situ water quality parameters at springs and monitoring wells The surface collapses often cause severe damage to infrastructures properties and loss of lives whereas contaminated groundwater poses risks to human health and the environment Collapses are critical in karst systems sparsing a seventh of Earth s land surface Karsts are also very relevant for drinking water yet karst represents a fourth of global drinking water Mitigating collapses and contaminated groundwater in karst aquifers can be complicated and costly These parameters detect hydrodynamics internal soil erosion and ground deformation changes as karst collapse and pollution proxies This book represents the most comprehensive overview of decades of research on karst collapse and groundwater contamination This book is of interest to researchers and policymakers

Proceedings of the International Topical Meeting on Nuclear and Hazardous Waste Management, Spectrum ... ,1992

**Statistics in Ecotoxicology** Tim Sparks,2000-02-08 Statistics in Ecotoxicology Edited by Tim Sparks Institute ofTerrestrial Ecology Cambridgeshire UK A basic understanding ofstatistical concepts and methodology is essential for everyresearch scientist Statistics in Ecotoxicology is a comprehensive well illustrated text tailored to meet the needs of allecotoxicologists from undergraduates to professionals Avoidingmathematical jargon the book uses worked examples to enable thereader to understand the potential of and limitations of statistical analysis in both the planning and operation oflaboratory and field ecotoxicological experiments This

informative and highly practical guide provides an invaluable introduction to the quantitative methods for the analysis of ecotoxicological data covers field experimentation laboratory experimentation regression methodology multivariate methods and monitoring incorporates essential tips to prevent many of the common design and analytical failings in ecotoxicology and includes case studies comprising of terrestrial freshwater and marine examples Written by an international team of scientists Statistics in Ecotoxicology will be essential reading for all ecotoxicologists **International Journal of Ecology and Environmental Sciences**, 1997

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