

# GEOSTATISTICAL CASE STUDIES

edited by  
G. Matheron  
and  
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Quantitative  
Geology and  
Geostatistics



# Geostatistical Case Studies

**Ying-Ying Zheng**



## Geostatistical Case Studies:

*Geostatistical Case Studies* G. Matheron, M. Armstrong, 1987-02-28 It is now nearly 25 years since the first textbook on geostatistics *Traité de géostatistique appliquée* by G Matheron appeared in print in 1962 In that time geostatistics has grown from an arcane theory regarded with scepticism by statisticians and miners alike to a reputable scientific discipline which is routinely used in the geosciences In the mining industry in particular comparisons between predicted reserve estimates and actual production figures have proved its worth Few now doubt its usefulness as a statistical tool in the earth sciences Over the past quarter of a century many geostatistical case studies have been published but the vast majority of these are routine applications of kriging Our objective with this volume is to present a series of innovative applications of geostatistics These range from a careful variographic analysis on uranium data through detailed studies on geologically complex deposits right up to the latest nonlinear methods applied to deposits with highly skewed data distributions Applications of new techniques such as the external drift method for combining well data with seismic information have also been included Throughout the volume the accent has been put on how to apply geostatistics in practice Notation has been kept to a minimum and mathematical details have been relegated to annexes We hope that this will encourage readers to put the more sophisticated techniques into practice in their own fields

**Geostatistics Unraveled: A Comprehensive Guide to Making Sense of Earth Science Data** Pasquale De Marco, 2025-08-11 Embark on a journey into the captivating realm of geostatistics where data unveils the secrets of Earth's intricate systems Discover how geostatistical techniques transform raw data into actionable insights empowering earth scientists to make informed decisions and address complex challenges Within these pages you will find a comprehensive guide to geostatistics encompassing its fundamental principles methodologies and applications Delve into the art of exploratory data analysis unraveling patterns and trends hidden within geological information Master the techniques of geostatistical estimation kriging and simulation unlocking the secrets of spatial variability and uncertainty Geostatistics finds its home in a diverse array of disciplines from mining and exploration to hydrogeology environmental science and agriculture In each of these domains geostatistics serves as an indispensable tool aiding in resource assessment risk evaluation and decision making Witness how geostatistical models optimize mining operations guide groundwater management strategies and inform environmental remediation efforts through real world case studies Written in an engaging and accessible style this book invites readers to grasp the essence of geostatistical concepts and their practical applications With a focus on contextually relevant examples the authors demonstrate how geostatistics empowers earth scientists to solve complex problems and make a positive impact on the world Whether you're a student seeking a deeper understanding of geostatistics a professional seeking to enhance your skills or simply someone fascinated by the interplay of statistics and geology this book is your gateway to unlocking the power of geostatistics Join the journey and discover the transformative power of data in shaping our understanding of Earth's systems If you like this book write a

review     **Geostatistical Reservoir Modeling** Michael J. Pyrcz, Clayton V. Deutsch, 2014-05 A revised edition that provides a full update on the most current methods tools and research in petroleum geostatistics     **Innovations in Renewable Energies Offshore** Carlos Guedes Soares, Shan Wang, 2024-11-11 The contribution of renewable energy offshore to the total energy production is increasing as is the interest in this topic Innovations in Renewable Energies Offshore includes the papers presented at the 6th International Conference on Renewable Energies Offshore RENEW 2024 19 21 November 2024 Lisbon Portugal and aims to contribute to the knowledge about the developments and experience obtained in concept development design and operation of such devices The contributions cover a wide range of topics including Resource assessment Wind Energy Wave Energy Tidal Energy Photovoltaic Energy Hydrogen Offshore Multiuse Platforms PTO design Economic assessment Materials and structural design Maintenance Vessels Innovations in Renewable Energies Offshore will be of interest to academics and professionals involved or interested in applications of renewable energy resources offshore

**Geospatial Analysis** Michael John De Smith, Michael F. Goodchild, Paul Longley, 2007 Addresses a range of analytical techniques that are provided within modern Geographic Information Systems and related geospatial software products This guide covers the principal concepts of geospatial analysis core components of geospatial analysis and surface analysis including surface form analysis gridding and interpolation methods     Geostatistics Jean-Paul Chilès, Pierre Delfiner, 2009-09-25 A novel practical approach to modeling spatial uncertainty This book deals with statistical models used to describe natural variables distributed in space or in time and space It takes a practical unified approach to geostatistics integrating statistical data with physical equations and geological concepts while stressing the importance of an objective description based on empirical evidence This unique approach facilitates realistic modeling that accounts for the complexity of natural phenomena and helps solve economic and development problems in mining oil exploration environmental engineering and other real world situations involving spatial uncertainty Up to date comprehensive and well written Geostatistics Modeling Spatial Uncertainty explains both theory and applications covers many useful topics and offers a wealth of new insights for nonstatisticians and seasoned professionals alike This volume Reviews the most up to date geostatistical methods and the types of problems they address Emphasizes the statistical methodologies employed in spatial estimation Presents simulation techniques and digital models of uncertainty Features more than 150 figures and many concrete examples throughout the text Includes extensive footnoting as well as a thorough bibliography Geostatistics Modeling Spatial Uncertainty is the only geostatistical book to address a broad audience in both industry and academia An invaluable resource for geostatisticians physicists mining engineers and earth science professionals such as petroleum geologists geophysicists and hydrogeologists it is also an excellent supplementary text for graduate level courses in related subjects     **Archaeological Site Location Modeling and Its Practical Use** Pasquale De Marco, 2025-03-09 Delve into the World of Archaeological Site Location Modeling Uncover the Secrets of Past Human Societies In this groundbreaking book a

team of leading experts in archaeological site location modeling takes you on a journey through the cutting edge methods and techniques used to identify map and analyze archaeological sites Discover how GIS geostatistical methods and remote sensing technologies are revolutionizing the way archaeologists study and understand past human societies From the basic principles of spatial analysis to the latest advances in predictive modeling and temporal and spatial patterning this comprehensive guide covers everything you need to know about archaeological site location modeling Learn how to use GIS to create detailed maps of archaeological sites and landscapes apply geostatistical methods to analyze the distribution of artifacts and features and utilize remote sensing technologies to explore subsurface remains With its in depth explanations real world case studies and thought provoking discussions this book provides a solid foundation for anyone interested in the application of spatial analysis to the study of past human societies Whether you are an archaeologist a cultural resource manager or a student new to the field this book will equip you with the knowledge and skills necessary to conduct cutting edge research in archaeological site location modeling

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### **Geostatistics and Petroleum Geology M.E.**

Hohn,2013-03-11 This is an extensive revision of a book that I wrote over ten years ago My purpose then has remained unchanged to introduce the concepts and methods of spatial statistics to geologists and engineers working with oil and gas data I believe I have accomplished more than that just as I learned the basics of variography and kriging from books for mining engineers this book could be used by scientists from many fields to learn the basics of the subject I have tried to adopt an introductory and practical approach to the subject knowing that books that detail the theory are available What I say and write comes from my own experience As a geologist working in the public sector I have had the privilege of using geostatistics in funded research in answering service requests from industry and in short courses I have taught geostatistics in the university classroom and advised graduate students in theses and dissertations I have attempted to anticipate the needs and questions of the enquiring scientist because I was there myself and know the kind of questions and concerns I had at the time I was trying to learn the subject

*Applied Mineral Inventory Estimation* Alastair J. Sinclair, Garston H.

Blackwell,2006-01-19 Applied Mineral Inventory Estimation presents a comprehensive applied approach to the estimation of mineral resources reserves with particular emphasis on the geological basis of such estimations the need for and

maintenance of a high quality assay data base the practical use of a comprehensive exploratory data evaluation and the importance of a comprehensive geostatistical approach to the estimation methodology Practical problems and real data are used throughout as illustrations each chapter ends with a summary of practical concerns a number of practical exercises and a short list of references for supplementary study This textbook is suitable for any university or mining school that offers senior undergraduate and graduate student courses on mineral resource reserve estimation It will also be valuable for professional mining engineers geological engineers and geologists working with mineral exploration and mining companies

**A Casebook for Spatial Statistical Data Analysis** Daniel A. Griffith, Larry J. Layne, 1999 This volume compiles geostatistical and spatial autoregressive data analyses involving georeferenced socioeconomic natural resources agricultural pollution and epidemiological variables Benchmark analyses are followed by analyses of readily available data sets emphasizing parallels between geostatistical and spatial autoregressive findings Both SAS and SPSS code are presented for implementation purposes This informative casebook will serve geographers regional scientists applied spatial statisticians and spatial scientists from across disciplines

*Machine Learning for Spatial Environmental Data* Mikhail Kanevski, Vadim Timonin, Alexi Pozdnukhov, 2009-06-09 This book discusses machine learning algorithms such as artificial neural networks of different architectures statistical learning theory and Support Vector Machines used for the classification and mapping of spatially distributed data It presents basic geostatistical algorithms as well The authors describe new trends in machine learning

*Geostatistics* M. Armstrong, 2013-12-11 ACKNOWLEDGEMENTS xvii LIST OF PARTICIPANTS xix PLENARY SESSIONS KRIGE D G GUARASCIO M and CAMISANI CALZOLARI F A Early South African geostatistical techniques in today's perspective 1 MATHERON G The internal consistency of models in geostatistics 21 MONESTIEZ P HABIB R and AUDERGON J M Estimation de la covariance et du variogramme pour une fonction aleatoire a support arborescent application a l'etude des arbres fruitiers 39 CHILES J P Modelisation geostatistique de reseaux de fractures 57 BRUNO R and RASPA G Geostatistical characterization of fractal models of surfaces 17 RIVOIRARD J Models with orthogonal indicator residuals 91 OMRE H HALVORSEN K B and BERTEIG V A Bayesian approach to kriging 109 THEQRY I SWITZER P Non stationary spatial covariances estimated from monitoring data 127 CHAUVET P Quelques aspects de l'analyse structurale des FAI k a 1 dimension 139 vi TABLE OF CONTENTS DOWD P A Generalised cross covariances 151 CRESSIE N The many faces of spatial prediction 163 OBLED C BRAUD I Analogies entre geostatistique et analyse en composantes principales de processus ou analyse EOFs 177 THEORY II JEULIN D Sequential random functions models 189 CHAUTRU J M The use of Boolean random functions in geostatistics 201 SOARES A O Use of a mathematical morphology tool in characterizing covariance of indicator data 213 ALLISON H J Regularization in geostatistics and in ill posed inversed problems 225 DONG A

**Statistics for Spatial Data** Noel Cressie, 2015-07-27 The Wiley Classics Library consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover

volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists Spatial statistics analyzing spatial data through statistical models has proven exceptionally versatile encompassing problems ranging from the microscopic to the astronomic However for the scientist and engineer faced only with scattered and uneven treatments of the subject in the scientific literature learning how to make practical use of spatial statistics in day to day analytical work is very difficult Designed exclusively for scientists eager to tap into the enormous potential of this analytical tool and upgrade their range of technical skills Statistics for Spatial Data is a comprehensive single source guide to both the theory and applied aspects of spatial statistical methods The hard cover edition was hailed by Mathematical Reviews as an excellent book which will become a basic reference This paper back edition of the 1993 edition is designed to meet the many technological challenges facing the scientist and engineer Concentrating on the three areas of geostatistical data lattice data and point patterns the book sheds light on the link between data and model revealing how design inference and diagnostics are an outgrowth of that link It then explores new methods to reveal just how spatial statistical models can be used to solve important problems in a host of areas in science and engineering Discussion includes Exploratory spatial data analysis Spectral theory for stationary processes Spatial scale Simulation methods for spatial processes Spatial bootstrapping Statistical image analysis and remote sensing Computational aspects of model fitting Application of models to disease mapping Designed to accommodate the practical needs of the professional it features a unified and common notation for its subject as well as many detailed examples woven into the text numerous illustrations including graphs that illuminate the theory discussed and over 1 000 references Fully balancing theory with applications Statistics for Spatial Data Revised Edition is an exceptionally clear guide on making optimal use of one of the ascendant analytical tools of the decade one that has begun to capture the imagination of professionals in biology earth science civil electrical and agricultural engineering geography epidemiology and ecology

*Basic Linear Geostatistics* Margaret Armstrong, 2012-12-06 Based on a postgraduate course that has been successfully taught for over 15 years the underlying philosophy here is to give students an in depth understanding of the relevant theory and how to put it into practice This involves going into the theory in more detail than most books do and also discussing its applications It is assumed that readers students and professionals alike are familiar with basic probability and statistics as well as the matrix algebra needed for solving linear systems however some reminders on these are given in an appendix Exercises are integrated throughout and the appendix contains a review of the material

**Multiple-point Geostatistics** Professor Gregoire Mariethoz, Jef Caers, 2014-12-31 This book provides a comprehensive introduction to multiple point geostatistics where spatial continuity is described using training images Multiple point geostatistics aims at bridging the gap between physical modelling realism and spatio temporal stochastic modelling The book provides an overview of this new field in three parts Part I presents a conceptual comparison between traditional random function theory and stochastic modelling based on

training images where random function theory is not always used Part II covers in detail various algorithms and methodologies starting from basic building blocks in statistical science and computer science Concepts such as non stationary and multi variate modeling consistency between data and model the construction of training images and inverse modelling are treated Part III covers three example application areas namely reservoir modelling mineral resources modelling and climate model downscaling This book will be an invaluable reference for students researchers and practitioners of all areas of the Earth Sciences where forecasting based on spatio temporal data is performed **Caldera**

**Volcanism** Joachim Gottsmann,Joan Marti,2011-09-22 This volume aims at providing answers to some puzzling questions concerning the formation and the behavior of collapse calderas by exploring our current understanding of these complex geological processes Addressed are problems such as How do collapse calderas form What are the conditions to create fractures and slip along them to initiate caldera collapse and when are these conditions fulfilled How do these conditions relate to explosive volcanism Most products of large caldera forming eruptions show evidence for pre eruptive reheating Is this a pre requisite to produce large volume eruptions and large calderas What are the time scales behind caldera processes How long does it take magma to reach conditions ripe enough to generate a caldera forming eruption What is the mechanical behavior of magma chamber walls during caldera collapse Elastic viscoelastic or rigid Do calderas form by underpressure following a certain level of magma withdrawal from a reservoir or by magma chamber loading due to deep doming underplating or both How to interpret unrest signals in active caldera systems How can we use information from caldera monitoring to forecast volcanic phenomena In the form of 14 contributions from various disciplines this book samples the state of the art of caldera studies and identifies still unresolved key issues that need dedicated cross boundary and multidisciplinary efforts in the years to come International contributions from leading experts Updates and informs on all the latest developments Highlights hot topic areas and identifies and analyzes unresolved key issues **Geostatistics Notes**

**for Practitioners** Glen Nwaila,Leon Tolmay,Mark Burnett,2024-08-20 This book provides a practical perspective of all the processes involved in estimating mineral resources and reserves including mine to mill reconciliation It provides an integrated step by step explanation of processes for performing each step including insight from academic and industry practitioners Each chapter details a specific aspect of the estimation processes in a practical manner It contains examples and case studies to illustrate the practical application of geostatistics in mineral resource estimation mineral reserve conversion and reconciliation Features Provides a step by step guide with over 10 000 lines of Python code for hands on demonstration from start to finish for both linear and non linear geostatistical methods Explains practical geostatistics processes and functionality Simplifies explanation of mathematical statistical concepts and application Discusses generalised examples to aid the process steps Reviews processes involved in the mineral resources estimation and ore reserve conversion This book is intended for third year and postgraduate students in Mineral Resources Management Geology Spatial Statistics



and Mining Engineering as well as practising professionals

**Geostatistics Rio 2000** M. Armstrong, C. Bettini, N. Champigny, A. Galli, A. Remacre, 2013-03-09 Geostatistics Rio 2000 includes fifteen contributions five of which are on applications in petroleum science and ten are on mining geostatistics These contributions were presented at the 31st International Geological Congress held in Rio de Janeiro Brazil from 6-17 August 2000 Stochastic simulation was the key theme of these case studies A wide range of methods was used truncated gaussian and plurigaussian SIS and SGS boolean methods and multi point attractors Audience The volume will be of value to scientists researchers and professionals in geology mining engineering petroleum engineering mathematics and statistics as well as those working for mining and oil companies

geoENV IV — Geostatistics for Environmental Applications Xavier Sanchez-Vila, Jesus Carrera, Jaime Gómez-Hernández, 2006-04-11 The fourth edition of the European Conference on Geostatistics for Environmental Applications geoENV IV took place in Barcelona November 27-29 2002 As a proof that there is an increasing interest in environmental issues in the geostatistical community the conference attracted over 100 participants mostly Europeans up to 10 European countries were represented but also from other countries in the world Only 46 contributions selected out of around 100 submitted papers were invited to be presented orally during the conference Additionally 30 authors were invited to present their work in poster format during a special session All oral and poster contributors were invited to submit their work to be considered for publication in this Kluwer series All papers underwent a reviewing process which consisted on two reviewers for oral presentations and one reviewer for posters The book opens with one keynote paper by Philippe Naveau It is followed by 40 papers that correspond to those presented orally during the conference and accepted by the reviewers These papers are classified according to their main topic The list of topics show the diversity of the contributions and the fields of application At the end of the book summaries of up to 19 poster presentations are added The geoENV conferences stress two issues namely geostatistics and environmental applications Thus papers can be classified into two groups

**Multivariate Geostatistics** Hans Wackernagel, 2013-04-17 This fully revised third edition introduces geostatistics by emphasising the multivariate aspects for scientists engineers and statisticians Geostatistics offers a variety of models methods and techniques for the analysis estimation and display of multivariate data distributed in space or time The text contains a brief review of statistical concepts a detailed introduction to linear geostatistics and an account of 3 basic methods of multivariate analysis Applications from different areas of science as well as exercises with solutions are provided to help convey the general ideas The introductory chapter has been divided into two separate sections for clarity The final section deals with non stationary geostatistics

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