

# GEOSTATISTICAL CASE STUDIES

edited by  
G. Matheron  
and  
M. Armstrong

Quantitative  
Geology and  
Geostatistics



# Geostatistical Case Studies

**Noel Cressie**

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, positioned to the right of the author's name.

## 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. *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. *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

**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

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

**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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**Statistics for Spatial Data** Noel Cressie, 2015-07-27

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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 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 Geographic Information Systems for Geoscientists Graeme F. Bonham-Carter,2014-05-18 Geographic Information Systems for Geoscientists Modelling with GIS provides an introduction to the ideas and practice of GIS to students and professionals from a variety of geoscience backgrounds The emphasis in the book is to show how spatial data from various sources principally paper maps digital images and tabular data from point samples can be captured in a GIS database manipulated and transformed to extract particular features in the data and combined together to produce new derived maps that are useful for decision making and for understanding spatial interrelationship The book begins by defining the meaning purpose and functions of GIS It then illustrates a typical GIS application Subsequent chapters discuss methods for organizing spatial data in a GIS data input and data visualization transformation of spatial data from one data structure to another and the combination analysis and modeling of maps in both raster and vector formats This book is intended as both a textbook for a course on GIS and also for those professional geoscientists who wish to understand something about the subject Readers with a mathematical bent will get more out of the later chapters but relatively non numerate individuals will understand the general purpose and approach and will be able to apply methods of map modeling to clearly defined problems *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

*geoENV VI – Geostatistics for Environmental Applications* Amílcar Soares, Maria João Pereira, Roussos Dimitrakopoulos, 2008-03-12 This volume contains 40 selected full text contributions from the Sixth European Conference on Geostatistics for Environmental Applications geoENV IV held in Rhodes Greece October 25 26 2006 The objective of the editors was to compile a set of papers from which the reader could perceive how geostatistics is applied within the environmental sciences A few selected theoretical contributions are also included

*geoENV I – Geostatistics for Environmental Applications* A.O. Soares, Jaime Gómez-Hernández, Roland Froidevaux, 2013-06-29 GeoENV96 the First European Conference on Geostatistics for Environmental Applications held in Lisbon was conceived to bring together researchers mostly from but not limited to Europe working on environmental issues approached by geostatistical methods Papers were attracted from fields as diverse as hydrogeology biology soil sciences air pollution or ecology It is clear that there is a lot of activity on geostatistics for environmental applications as the collection of papers in this book reveals GeoENV96 was successful in the number and quality of the papers presented which surpassed the initial expectations There is still a large dispersion on the level of application of geostatistics in the different areas To help in spreading the most novel applications of geostatistics across disciplines and to discuss the specific problems related to the application of geostatistics to environmental applications geoENV96 is intended to set the pace and to be the first of a series of biennial meetings The pace is set now let us wait for geoENV98 Lisbon November 1996 The Executive Committee Jaime Gomez Hernandez Roland Froidevaux Amílcar Soares

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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

**Geostatistics Wollongong '96** Ernest Y. Baafi, Neil A. Schofield, 1997 The papers in this volume provide a comprehensive account of the current methods and work in geostatistics including recent theoretical developments and applications Topics featured include stochastic simulations space time modelling and Bayesian framework

**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

**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

Advanced Mapping of Environmental Data Mikhail Kanevski, 2013-05-10 This book combines geostatistics and global mapping systems to present an up to the minute study of environmental data Featuring numerous case studies the reference covers model dependent geostatistics and data driven machine learning algorithms analysis techniques such as risk mapping conditional stochastic simulations descriptions of spatial uncertainty and variability artificial neural networks ANN for spatial data Bayesian maximum entropy BME and more

*Applied Mineral Inventory Estimation* Alastair J. Sinclair, Garston H. Blackwell, 2006-01-19 Presents an applied approach to the



estimation of mineral resources reserves It is suitable for any university or mining school that offers courses on mineral resource reserve estimation It will also be valuable for professional mining and geological engineers and geologists working with mineral exploration companies     Statistical Evaluations in Exploration for Mineral Deposits Friedrich-Wilhelm Wellmer, 2012-12-06 Statistical evaluations of exploration data are the basis for decisions to be made at various stages of an exploration project In contrast to other geostatistical books Statistical Evaluations in Exploration for Mineral Deposits focuses not only on theory but examples are also given frequently originating from experience in mineral exploration by the author who worked worldwide for a mining company Together with its companion volume Economic Evaluations in Exploration the book illustrates methods used in exploration campaigns and mining activities It is intended as a vademecum for geologists who are forced to make quick decisions regarding an exploration project It also addresses scientists and students involved in teaching or in mineral economic evaluations recommendations or decisions     *Mineral Resource Estimation* Mario E. Rossi, Clayton V. Deutsch, 2013-12-21 Mineral resource estimation has changed considerably in the past 25 years geostatistical techniques have become commonplace and continue to evolve computational horsepower has revolutionized all facets of numerical modeling mining and processing operations are often larger and uncertainty quantification is becoming standard practice Recent books focus on historical methods or details of geostatistical theory So there is a growing need to collect and synthesize the practice of modern mineral resource estimation into a book for undergraduate students beginning graduate students and young geologists and engineers It is especially fruitful that this book is written by authors with years of relevant experience performing mineral resource estimation and with years of relevant teaching experience This comprehensive textbook and reference fills this need

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