



GEOSTATISTICS FOR THE MINING INDUSTRY

Applications to Porphyry Copper Deposits

**Xavier Emery
Serge Antoine Séguet**



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Mining Geostatistics

Siddappa N.Byraredy



Mining Geostatistics:

Mining Geostatistics A. G. Journel, Andre G. Journel, Ch. J. Huijbregts, 2003 First published in 1978 this complete reference work on mining geostatistics attempts to synthesize the practical experience gained by researchers from the Centre de Morphologie Mathematique in France and by mining engineers and geologists all over the world who contributed their ideas Technology Industrial Mining Geostatistics A. G. Journel, 1981 **Mining Geostatistics** A. G. Journel, Ch. J. Huijbregts, 1973 **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 *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

Geostatistical Simulations M. Armstrong, P.A. Dowd, 2013-06-29 When this two day meeting was proposed it was certainly not conceived as a celebration much less as a party However on reflection this might have been a wholly appropriate gesture because geostatistical simulation came of age this year it is now 21 years since it was first proposed and implemented in the form of the turning bands method The impetus for the original development was the mining industry principally the problems encountered in mine planning and design based on smoothed estimates which did not reflect the degree of variability and detail present in the real mined values The sustained period of development over recent years has been driven by hydrocarbon applications In addition to the original turning bands method there are now at least six other established methods of geostatistical simulation Having reached adulthood it is entirely appropriate that geostatistical simulation should now be subjected to an intense period of reflection and assessment That we have now entered this period

was evident in many of the papers and much of the discussion at the Fontainebleau meeting. Many questions were clearly articulated for the first time and although many of them were not unambiguously answered, their presentation at the meeting and publication in this book will generate confirmatory studies and further research.

The Conterminous United States Mineral Appraisal Program Charles Joseph Robinove, James G. Smith, 1984

Geostatistics for Environmental Applications Philippe Renard, Hélène Demougeot-Renard, Roland Froidevaux, 2005-12-06

Once applied only to problems of mining reserves assessment or petroleum reservoir characterization, geostatistics is now being used in an increasingly large number of disciplines in environmental sciences. On the one hand, it enables the analysis and handling in a rigorous probabilistic framework of the issues of spatial and temporal interpolation of continuous or categorical environmental variables. On the other hand, the methodology is also used to design and optimize sampling campaigns.

Geostatistics for Environmental Applications contains forty selected contributions covering the latest progress in a broad spectrum of fields including air quality, climatology, ecology, groundwater hydrology, surface hydrology, oceanography, soil contamination, epidemiology, and health, natural hazards, and remote sensing.

Geostatistics and Petroleum Geology Michael Hohn, 1998-11-30

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.

Stochastic Modeling and Geostatistics Timothy C. Coburn, Jeffrey M. Yarus, R. L. Chambers, 2005-12-10

Geostatistics for the Mining Industry Xavier Emery, Serge Antoine Séguet, 2020-12-28

This book covers the main mining issues where geostatistics, a discipline founded in the 1960s to study regionalized variables measured at a limited number of points in space, is expected to play a role. Each chapter of the book is associated with a stage of the mining sequence, including the interpretation and geological modeling of mineral deposits, evaluation of in situ and recoverable resources, long term mine planning, short term planning, and ore control, geotechnics, geometallurgy, and sampling. This work, featuring more than 150 illustrations, avoids the traditional laborious and crippling theoretical treatment of geostatistics and is systematically oriented toward a practical exhibition of the problems and proposed solutions. The writing is fluid and intended to involve the reader. The book is the fruit of more than 35 cumulative years of applied research by the authors, a professor at

the University of Chile and a researcher at Mines ParisTech carried out in collaboration with the Chilean company Codelco since the late 1990s Despite focusing on copper porphyry deposits the generalization of the methods presented to the entire mining industry is straightforward The broad range of problems addressed including generally neglected disciplines such as geotechnics geometallurgy and sampling and their practical presentation make this book unique and usable by a very wide audience students researchers geologists engineers geotechnicians and metallurgists

Geostatistics and Geospatial Technologies for Groundwater Resources in India Partha Pratim Adhikary,Pravat Kumar Shit,Priyabrata Santra,Gouri Sankar Bhunia,Ashwani Kumar Tiwari,B. S. Chaudhary,2021-02-26 This book offers essential information on geospatial technologies for water resource management and highlights the latest GIS and geostatistics techniques as they relate to groundwater Groundwater is inarguably India s single most important natural resource It is the foundation of millions of Indian farmers livelihood security and the primary source of drinking water for a vast majority of Indians in rural and urban areas The prospects of continued high rates of growth in the Indian economy will to a great extent depend on how judiciously we can manage groundwater in the years to come Over the past three decades India has emerged as by far the single largest consumer of groundwater in the world Though groundwater has made the country self sufficient in terms of food we face a crisis of dwindling water tables and declining water quality Deep drilling by tube wells which was once part of the solution to water shortages is now in danger of becoming part of the problem Consequently we urgently need to focus our efforts on the sustainable and equitable management of groundwater Addressing that need this book presents novel advances in and applications of RS GIS and geostatistical techniques to the research community in a precise and straightforward manner

Geostatistics with Data of Different Support Applied to Mining Engineering Marcel Antonio Arcari Bassani,João Felipe Coimbra Leite Costa,2021-08-09 This book explains the integration of data of different support in Geostatistics There is a common misconception in the mining industry that the data used for estimation simulation should have the same size or support However Geostatistics provides the tools to integrate several types of information that may have different support This book aims to explain these geostatistical tools and provides several examples of applications The book is directed for a broad audience including engineers geologists and students in the area of Geostatistics

Harness Oil and Gas Big Data with Analytics Keith R. Holdaway,2014-05-05 Use big data analytics to efficiently drive oil and gas exploration and production Harness Oil and Gas Big Data with Analytics provides a complete view of big data and analytics techniques as they are applied to the oil and gas industry Including a compendium of specific case studies the book underscores the acute need for optimization in the oil and gas exploration and production stages and shows how data analytics can provide such optimization This spans exploration development production and rejuvenation of oil and gas assets The book serves as a guide for fully leveraging data statistical and quantitative analysis exploratory and predictive modeling and fact based management to drive decision making in oil and gas operations This comprehensive resource delves into the three major

issues that face the oil and gas industry during the exploration and production stages Data management including storing massive quantities of data in a manner conducive to analysis and effectively retrieving backing up and purging data Quantification of uncertainty including a look at the statistical and data analytics methods for making predictions and determining the certainty of those predictions Risk assessment including predictive analysis of the likelihood that known risks are realized and how to properly deal with unknown risks Covering the major issues facing the oil and gas industry in the exploration and production stages Harness Big Data with Analytics reveals how to model big data to realize efficiencies and business benefits 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

geoENV II — Geostatistics for Environmental Applications Jaime Gómez-Hernández, A.O. Soares, Roland Froidevaux, 2013-11-27 The Second European Conference on Geostatistics for Environmental Applications took place in Valencia November 18-20 1998 Two years have past from the first meeting in Lisbon and the geostatistical community has kept active in the environmental field In these days of congress inflation we feel that continuity can only be achieved by ensuring quality in the papers For this reason all papers in the book have been reviewed by at least two referees and care has been taken to ensure that the reviewer comments have been incorporated in the final version of the manuscript We are thankful to the members of the scientific committee for their timely review of the scripts All in all there are three keynote papers from experts in soil science climatology and ecology and 43 contributed papers providing a good indication of the status of geostatistics as applied in the environmental field all over the world We feel now confident that the geoENV conference series seeded around a coffee table almost six years ago will march firmly into the next century **Reservoir Characterization** Larry Lake, 2012-12-02 Reservoir Characterization is a collection of papers presented at the Reservoir Characterization Technical Conference held at the Westin Hotel Galleria in Dallas on April 29-May 1 1985 Conference held April 29-May 1 1985 at the Westin Hotel Galleria in Dallas The conference was sponsored by the National Institute for Petroleum and Energy Research Bartlesville Oklahoma Reservoir characterization is a process for quantitatively assigning reservoir properties recognizing geologic information and uncertainties in spatial variability This book contains 19 chapters and begins with the geological characterization of sandstone reservoir followed by the geological prediction of shale

distribution within the Prudhoe Bay field The subsequent chapters are devoted to determination of reservoir properties such as porosity mineral occurrence and permeability variation estimation The discussion then shifts to the utility of a Bayesian type formalism to delineate qualitative soft information and expert interpretation of reservoir description data This topic is followed by papers concerning reservoir simulation parameter assignment and method of calculation of wetting phase relative permeability This text also deals with the role of discontinuous vertical flow barriers in reservoir engineering The last chapters focus on the effect of reservoir heterogeneity on oil reservoir Petroleum engineers scientists and researchers will find this book of great value **Fractals in Petroleum Geology and Earth Processes** C.C. Barton,P.R. La

Pointe,2012-12-06 In this unique volume renowned experts discuss the applications of fractals in petroleum research offering an excellent introduction to the subject Contributions cover a broad spectrum of applications from petroleum exploration to production Papers also illustrate how fractal geometry can quantify the spatial heterogeneity of different aspects of geology and how this information can be used to improve exploration and production results *Geostatistical Methods for Reservoir*

Geophysics Leonardo Azevedo,Amílcar Soares,2017-04-07 This book presents a geostatistical framework for data integration into subsurface Earth modeling It offers extensive geostatistical background information including detailed descriptions of the main geostatistical tools traditionally used in Earth related sciences to infer the spatial distribution of a given property of interest This framework is then directly linked with applications in the oil and gas industry and how it can be used as the basis to simultaneously integrate geophysical data e g seismic reflection data and well log data into reservoir modeling and characterization All of the cutting edge methodologies presented here are first approached from a theoretical point of view and then supplemented by sample applications from real case studies involving different geological scenarios and different challenges The book offers a valuable resource for students who are interested in learning more about the fascinating world of geostatistics and reservoir modeling and characterization It offers them a deeper understanding of the main geostatistical concepts and how geostatistics can be used to achieve better data integration and reservoir modeling Mineral

Exploration Swapan Kumar Haldar,2012-12-31 Globally mineral exploration has grown significantly in recent years driven by the rapid acceleration in prices for gold and diamonds since 2004 and the emergence of a middle class in both China and India aggressively increased demand Despite this resurgence no single book has been published that takes an interdisciplinary approach in addressing the full scope of mineral exploration from mining and extraction to economic evaluation policies sustainability and environmental impacts Mineral Exploration Principles and Applications accomplishes this by presenting each topic with theoretical approaches first followed by specific applications that can be immediately implemented in the field Presents 16 case studies that allow readers to quickly apply exploration concepts to real life scenarios in the field Includes more than 200 illustrations and full color photographs that aid the reader in retaining key procedures and applications Each chapter is structured so that its topic is discussed theoretically first followed by specific

applications Combines both theory and application in a multidisciplinary reference that thoroughly addresses the full scope of mineral exploration Authored by an instructor with more than 30 years of experience in the field and a decade as a consultant for commercial mining companies

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