

Statistical Concepts in Mineral Inventory Estimation: An Overview

Statistics . . . should not be involved in ore reserve estimation until all other factors such as geological continuity and contacts, lost core, representativeness, sampling and assay errors have been identified, examined and assessed. (King et al., 1982, p. 18)

The aim of Chapter 4 is to introduce classic statistical terminology and methods in the context of mineral inventory estimation. It is advantageous for the reader who is unfamiliar with statistical methodologies to have available an introductory text in statistics from which to obtain a more general background and insight into proofs or developments of various parts of the commentary. Emphasis here is on simple and useful statistical procedures. Topics include central tendency, dispersion, covariance, histograms, probability density functions, probability plots, linear correlation, autocorrelation, and linear regression. All are presented in the context of their use in mineral inventory estimation.

4.1: INTRODUCTION

Statistical methods and terminology have been applied to the characterization of ore since about 1945 (cf. Sichel, 1952; Swanson, 1945). Applications to the study of quantitative numeric variables such as metal grades or other deposit characteristics are commonly concerned with central tendency, dispersion of values, the form of probability density functions (histograms), simple correlation, autocorrelation,

relations among groups of variables, and a variety of probabilistic statements related to some of these topics. These traditional statistical approaches to summarizing and understanding data are considered here in their relation to mineral inventory estimation procedures. For deeper insight into the fundamentals of statistics, reference should be made to the myriad of texts available.

Statisticians speak of a *population* or *universe* (i.e., the entire feature under study, e.g., a mineral deposit). This universe or deposit is characterized by variables (e.g., grades) with particular parameters (e.g., mean, standard deviation) and a particular form or shape to the spread of all possible values (data items) about the mean (i.e., the probability density function or the histogram). A general aim of statistical work is to infer the parameters (characteristics) of the universe (deposit) from a subset or sample of possible items (rock sample assays). For example, 345 rock samples analyzed for Cu and Au might be adequate to characterize a particular deposit within an acceptable level of error. Note the two uses of the word *sample*. In statistical usage, the n individual values combine to make a sample (consisting of n items) of the deposit. In mining usage, a sample is commonly a physical quantity of rock material, a representative fraction of which can be analyzed to produce numeric measures of quality (e.g., grades). Samples in mining evaluation

Applied Mineral Inventory Estimation

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Innovative Exploration Methods for Minerals, Oil, Gas, and Groundwater for Sustainable Development A. K. Moitra, Jayanta Bhattacharya, J. R. Kayal, Biplab Mukerji, A.K. Das, 2021-12-03 Innovative Exploration Methods for Mineral Oil Gas and Groundwater for Sustainable Development provides an integrated approach to exploration encompassing geology geophysics mining and mineral processing In addition groundwater exploration is included as it is central to the development of earth resources As the demand for coal minerals oil and gas and water continues to grow globally researchers must prioritize sustainable exploration methods Old technologies are being replaced speedily and exploration work has become fast focused meaningful and readily reproducible keeping in pace with the changing global scenario The themes of exploration of energy resources exploration of minerals groundwater exploration and processing and mineral engineering are separated out into sections and chapters included in these sections include case studies focusing on tools and techniques for exploration Innovative Exploration Methods for Mineral Oil Gas and Groundwater for Sustainable Development gives insight to modern concepts of exploration for those working in the various fields of energy mineral and groundwater exploration Presents innovative research that will both challenge and complement the traditional concepts of exploration Covers a wide range of instruments and their applications as well as the tools and processes that need to be followed for modern exploration work Includes

research on groundwater exploration with a focus on conservation and sustainable exploration and development

Essentials of Mineral Exploration and Evaluation S. M. Gandhi, B. C. Sarkar, 2016-05-10 *Essentials of Mineral Exploration and Evaluation* offers a thorough overview of methods used in mineral exploration campaigns evaluation reporting and economic assessment processes Fully illustrated to cover the state of the art exploration techniques and evaluation of mineral assets being practiced globally this up to date reference offers balanced coverage of the latest knowledge and current global trends in successful mineral exploration and evaluation From mineral deposits to remote sensing to sampling and analysis *Essentials of Mineral Exploration and Evaluation* offers an extensive look at this rapidly changing field Covers the complete spectrum of all aspects of ore deposits and mining them providing a one stop shop for experts and students Presents the most up to date information on developments and methods in all areas of mineral exploration Includes chapters on application of GIS statistics and geostatistics in mineral exploration and evaluation Includes case studies to enhance practical application of concepts

Applications and Experiences of Quality Control Ognyan Ivanov, 2011-04-26 The rich palette of topics set out in this book provides a sufficiently broad overview of the developments in the field of quality control By providing detailed information on various aspects of quality control this book can serve as a basis for starting interdisciplinary cooperation which has increasingly become an integral part of scientific and applied research

Mineral Resources Manuel Bustillo Revuelta, 2017-08-23 This comprehensive textbook covers all major topics related to the utilization of mineral resources for human activities It begins with general concepts like definitions of mineral resources mineral resources and humans recycling mineral resources distribution of minerals resources across Earth and international standards in mining among others Then it turns to a classification of mineral resources covering the main types from a geological standpoint The exploration of mineral resources is also treated including geophysical methods of exploration borehole geophysical logging geochemical methods drilling methods and mineral deposit models in exploration Further the book addresses the evaluation of mineral resources from sampling techniques to the economic evaluation of mining projects i.e. types and density of sampling mean grade definition and calculation Sichel's estimator evaluation methods classical and geostatistical economic evaluation NPV IRR and PP estimation of risk and software for evaluating mineral resources It subsequently describes key mineral resource exploitation methods open pit and underground mining and the mineral processing required to obtain saleable products crushing grinding sizing ore separation and concentrate dewatering also with some text devoted to tailings dams Lastly the book discusses the environmental impact of mining covering all the aspects of this very important topic from the description of diverse impacts to the environmental impact assessment EIA which is essential in modern mining projects

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 Novel Methods and Applications for Mineral Exploration Paul Alexandre,2020-05-20 This special volume offers a snapshot of the latest developments in mineral exploration in particular geophysical geochemical and computational methods It reflects the cutting edge applications of geophysics and geochemistry as well as novel technologies such as in artificial intelligence and hyperspectral exploration methods that have profoundly changed how exploration is conducted This special volume is a representation of these cutting edge and pioneering methods to consider and conduct exploration and should serve both as a valuable compendium of the most innovative exploration methodologies available and as a foreshadowing of the form of future exploration As such this volume is of significant importance and would be useful to any exploration geologist and company **Earth Sciences** Imran Ahmad Dar,2012-02-03 The studies of Earth s history and of the physical and chemical properties of the substances that make up our planet are of great significance to our understanding both of its past and its future The geological and other environmental processes on Earth and the composition of the planet are of vital importance in locating and harnessing its resources This book is primarily written for research scholars geologists civil engineers mining engineers and environmentalists Hopefully the text will be used by students and it will continue to be of value to them throughout their subsequent professional and research careers This does not mean to infer that the book was written solely or mainly with the student in mind Indeed from the point of view of the researcher in Earth and Environmental Science it could be argued that this text contains more detail than he will require in his initial studies or research *Mineral Property Evaluation* Richard L. Bullock,Scott Mernitz,2017-12-01 Everything sums up what must be considered for a properly documented property evaluation Less than 30% of the projects that are developed in the minerals industry yield the return on investment that was projected from the project feasibility studies The tools described in this handbook will greatly improve the probability of meeting your projections and minimizing project execution capital cost blowout that has become so prevalent in this industry in recent years Mineral Property Evaluation provides guidelines to follow in performing mineral property feasibility and evaluation studies and due diligence and in preparing proper documents for bankable presentations It highlights the need for a consistent systematic methodology in performing evaluation and feasibility work The objective of a feasibility and evaluation study should be to assess the value of the undeveloped or developed mineral property and to convey these findings to the company that is considering applying technical and physical changes to bring the property into production of a mineral product The analysis needs to determine the net present worth returned to the company for investing in these changes and to reach that decision point as early as possible and with the least amount of money spent on the evaluation study All resources are not reserves nor are all minerals an ore The successful

conclusion of any property evaluation depends on the development work and conclusions of the project team The handbook has a diverse audience Professionals in the minerals industry that perform mineral property evaluations Companies that have mineral properties and perform mineral property feasibility studies and evaluations or are buying properties based on property evaluation Financial institutions both domestic and overseas that finance or raise capital for the minerals industry Consulting firms and architectural and engineering contractors that utilize mineral property feasibility studies and need standards to follow And probably the most important the mining and geological engineering students and geology and economic geology students that need to learn the standards that they should follow throughout their careers

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