

CONTENT

Introduction

- Quantification of uncertainty shelters investment and maximises profits; frameworks for uncertainty modelling and optimisation of mining operations

Concepts and Techniques

- Introduction to Monte Carlo simulations, methods and risk assessment

Practice of Stochastic Simulation for Risk Management in Mining

- Resource/reserve classification (large gold deposit)
- Cost effective drilling programs (lateritic nickel deposit)
- Uncertainty in open pit design – risk analysis and how to do better (disseminated gold deposit)
- Assessing risk in recoverable reserves and meeting project production schedules ahead of mining (gold deposit)
- Risk based optimal design for sublevel open stoping (underground copper mine)

- Product quality management and production scheduling with uncertainty (iron ore deposit)
- Recoverable reserves, future data and mine design (gold and copper deposits)
- Selecting a mine design using both metal and market uncertainty (gold and copper deposits)

Computer Workshop

- Introduction to SGeMS public domain software

Computer programs and data used in workshops are provided to the participants.

INSTRUCTOR

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