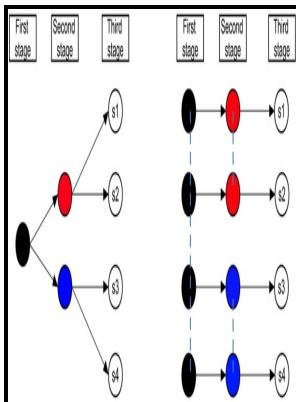


On the application of stochastic modelling and uncertainty analysis in petroleum engineering

University of Portsmouth - HESS



Description: -

- On the application of stochastic modelling and uncertainty analysis in petroleum engineering
- On the application of stochastic modelling and uncertainty analysis in petroleum engineering

Notes: Thesis (Ph.D.) - University of Portsmouth, 1996.

This edition was published in 1996



Filesize: 59.21 MB

Tags: #Risk #and #decision #analysis

Application of Sequential Gaussian Conditional Simulation to Underground Mine Design Under Grade Uncertainty

Deutsch holds the Alberta Chamber of Resources Industry Chair in Mining Engineering and the Canada Research Chair in Natural Resources Uncertainty Characterization. In this way, through an interactive process, new simulations are performed directed by Method 3 until an acceptable reduction is reached. Decision trees rely on expected value, but decision makers do not always do the same, which brings about the notion of utility functions.

Application of Sequential Gaussian Conditional Simulation to Underground Mine Design Under Grade Uncertainty

Parameters with negligible main effects can have significant joint effects. Lacking the conventional source-seal mechanism, there may be large room for error in estimating commercial viability of a prospect.

Petroleum reservoir uncertainty mitigation through the integration with production history matching

Despite significant efforts in linking between the software packages representing the various aspects of SH, we note that in many cases some minimal programming skills are needed in order to implement numerical solutions targeted at the specific needs of the modeling exercise. Lack of user-friendly software that applies theory. The levels of the uncertain attributes are combined, such that each branch of the tree results in a different simulation model.

Uncertainty Analysis of Reservoir Models

The three application areas covered in our review include 1 the simulation of random fields, 2 stochastic forward modeling, and 3 stochastic inverse modeling. The role of higher education. In summary, courts are not prohibited from dealing with probability, but they have sent confusing messages with inconsistent rulings.

Technical Papers

For whatever reason, engineers do not gain a level of comfort with the language nor see immediate use for it in their jobs.

Application of Stochastic Prospect Analysis for Shale Gas Reservoirs

Most of all, the ability to test the uncertainty of any input or output for any or all project stages grants unparalleled flexibility. Noteworthy papers in OnePetro Walstrom, J. Congress, in the USA, underestimated and ignored environmental uncertainties.

Technical Papers

We use Excel to illustrate these descriptive statistics. Obtaining the best deterministic matching is not the target of the proposed methodology, but rather reflecting on how the history data makes possible the mitigation of uncertainties. Inverse modeling is a study in assimilating Type A i.

Related Books

- [Studien zur Geschichte des spätantiken Porträts](#)
- [Comprender la arquitectura](#)
- [Heredity and your life](#)
- [Perennial scope of philosophy. - Translated by Ralph Manheim](#)
- [Lasers in biology and medicine](#)