Petroleum Geostatistics

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Description

Petroleum Geostatistics provides an overview of the role of geostatistical methods in reservoir modeling, focusing on well-seasoned geostatistical tools, their versatility, and their inherent limitations. The author provides ample tutorial synthetic examples, as well as real-case demonstrations illustrating practicality, and writes in an intuitive, conceptualizing style devoid of a burdensome mathematical treatment of the field. This title is geared toward professional geologists, geophysicists, and petroleum engineers looking for a first exposure to geostatistics, but it also can be used as a textbook on the practical aspects of geostatistics in reservoir modeling.
Geostatistics uses known values at specific locations where data has already been collected as the basis for estimating unknown values at locations where data has not yet been collected. With the geostatistical method, energy companies can use bore samples from places they know in order to make intelligent predictions about places they don’t know. Moreover, geostatistics tells them how likely it is that those predictions will be correct. Geostatistics in Petroleum Geology. Uploaded by sotork. Copyright: Attribution Non-Commercial (BY-NC). Petroleum Geostatistics. RCM/GEOSTAT. Who should attend? Course Content. Fundamentals of geostatistics. Basic statistics for data analysis. Introduction to geostatistics. Quantification of spatial variability: variogram. Kriging & Variations.